

INDEX OF AFTE JOURNALS AND NEWSLETTERS FROM MAY 1969 THROUGH SPRING 2003

Compiled by Rocky S. Stone
741 South Highway 217
Tijeras, NM 87059
(505)286-0808
e-mail: rockyabq@aol.com

This index has been compiled based upon what I, personally, would probably be searching for if the information in the particular article would answer that general question. Commonly, the entries for each article include the recommended keywords of the authors, but not always. In most cases, there are additional index entries for each article.

Please drop me a line if you discover omissions, errors, or duplications... Thanks.

Notes: Page numbers are listed after the issue designation (i. e. "...Fall 98 322" will be on page 322 of the Fall 98 issue).

Numerical entries (such as "3-D") in primary headings are listed alphabetically as if spelled out (i. e. "Three-D"). Newsletters are listed as "NLR" and the number.

Peer review (comments) concerning a particular article are indexed with the original article entry.

A useful feature of this format is the ability to utilize the "Search" feature of your word processor. If you can't find what you're looking for, try a "Search" for all or part of the terms in which you're interested. If it's a firearm model number, try it both with and without a hyphen. If you don't know the exact spelling, try a portion of the spelling. For example, if you're looking for "Schönebeck", try a search for "beck".

Also refer to the "References" listed at the end of each article.

A. A. Arms - AP9 pistol - Unrifled ...Jul 95 197
A. J. Ordnance - See **Alexander James Ordnance**
Accelerator - See also Remington
Accelerator ...Apr 84 111
Accelerator ...Oct 83 16
Accidental discharge - See **Safety**
Accreditation - See **Quality Assurance**
Accu-Match - Aftermarket barrels for Glock pistols ...Fall 98 640
Accu-Match International - Barrel in Glock with silencer ...Winter 98 123
Accuracy testing on Dvorak Instruments' Trigger-Scan System ...Fall 00 364
Acoustics - Gunfire as a hazard to fetal development ...Winter 00 25
Acoustics - Silencer, homemade, noise reduction measurements ...Summer 98 499
Acoustics - Sound analysis of gunshots ...Jan 94 41
Acoustics - Sound meters in firearms identification ...Summer 98 510
Acoustics - Sound of bullets ...Summer 02 255
Acoustics - Sound spectrography to characterize gunshots ...Jul 79 61
Action types - Gas operated blowback shifted pulse in Russian AN94 assault rifle ...Summer 01 275
Adapters - See **Conversion kits**
Admissibility, Daubert criteria for ...Winter 98 3
Aerodynamic force - See **Ballistics, external**
African ammunition - 5.56 x 45mm (.223 Remington) ...Spring 00 180
AFTE - Application for Certification (most current) ...Winter 00 104
AFTE - Application forms (most current) ...Summer 99 420
AFTE - Bylaws (most current) ...Winter 00 89
AFTE - Bylaws ...Fall 01 375

AFTE - Certification - Development of Examinations for Practicing Firearm and Toolmark Examiners, Summary Report ...Fall 00 373
AFTE - Certification program ...Fall 2002 442
AFTE - Certification program ...Oct 96 287
AFTE - Certification program ...Summer 02 336
AFTE - Certification Program ...Winter 03 126
AFTE - Certification program ...Summer 99 428
AFTE - Code of Ethics (most current) ...Winter 00 99
AFTE - Constitution ...Jul 77 8
AFTE - Criteria for identification - 2001 Training Seminar Panel Discussion transcript ...Summer 02 323
AFTE - First conference ...NLR 1 16
AFTE - Formation ...Apr 89 118
AFTE - Formation ...NLR 1 2
AFTE - Formation of ...Summer 99 219
AFTE - Journal history ...Spring 02 210
AFTE - LESIG ...Summer 99 393
AFTE - Member location maps ...Summer 99 223
AFTE - Peer review history ...Spring 02 210
AFTE - Photos of members ...Summer 99 299
AFTE - Preamble, Constitution, and By-Laws ...Jul 80 92
AFTE - Re-certification ...Summer 02 342
AFTE - Scholarship application ...Jan 94 xi
AFTE - Training Manual Revision ...Apr 91 648
AFTE - Video Tape Library ...Apr 91 647
AFTE - Video Tape Library ...Jan 90 83
After-market firing pin marks ...Spring 97 175
Agape gun safety device ...Jul 83 17
Aging of cartridge cases ...Jan 86 49
Aguila - .22 Colibri ...Spring 00 167
Aguila - .22 SniperSubSonic (.22 SSS) ...Summer 00 296
Aguila - .22 Super Maximum ...Spring 00 167
Aguila - .22 Super Maximum ...Summer 00 296
Aguila - .22SSS (Sniper SubSonic) ...Spring 00 167
Aguila - .45ACP High Power ...Spring 00 167
Aguila - 12 gauge Mini-shells ...Spring 00 167
Aguila - Cartridges ...Apr 85 116
Aguila - Colibri .22 rimfire ...Summer 01 276
Aguila - SSS (Sniper SubSonic), .22 rimfire ...Summer 01 276
AIDS - See **Safety**
Air Force Armament Laboratory - survival firearm ...NLR 8 11
Air guns - Air Gun Digest ...Oct 88 465
Air guns - Ballistics and overview ...Spring 98 336 & Peer review ...Summer 98 561
Air guns - Ballistics, exterior, of contemporary ...Spring 98 262
Air guns - BB comparison ...Mar 78 26
Air guns - Brocock model ME38 converted to .25 ACP caliber ...Winter 01 53
Air guns - Chinese ...Jan 83 118
Air guns - CO2 cartridges, velocity drop during depletion ...Summer 98 435
Air guns - Crosman ...Oct 72 24
Air guns - Crosman Model 1400 .22 pellet identified ...Jun 74 3
Air guns - Crosman Model 3100 Air rifle **Safety warning** ...Oct 90 452
Air guns - Daisy Model 880 and Model 881, Fatality ...Jul 76 104
Air guns - Deadly weapon determinations ...Apr 89 230
Air guns - Deadly weapon determinations ...Jul 79 40
Air guns - Dieseling using commonly available fuels ...Spring 2003 167
Air guns - Information source ...Jul 82 9
Air guns - Mini water trap for pellet recovery ...Jan 95 71
Air guns - Modification to .22 cal. ...Fall 97 496
Air guns - Pellet chambering marks, identification ...Oct 82 16
Air guns - Pellet gun homicide ...Jan 85 39
Air guns - Pellets ...Apr 83 42
Air guns - Pellets ...Apr 83 42
Air guns - Safety designs ...Apr 92 165

Air guns - Sheridan ...Oct 72 24
Air guns - Skin Perforation and Skin Simulants ...Summer 02 268
Air guns - Velocity drop during the depletion of CO2 cartridges ...Summer 98 435
Air Taser, forensic aspects ...Winter 98 108
Aircraft - Dangers of stray bullets ...Jan 95 11
Aircraft, struck by bullet, class characteristics of bullet on metal at exit hole ...Spring 99 163
AK - Class characteristics on fired cases ...Spring 02 144
AK series rifles - Class characteristics compared to SKS style ...Apr 96 77
AK-47 - Automatic conversion ...Jul 90 302
AK-47 - See also Russia
AK-47 - Serial numbers, alternate locations ...Jan 96 22
AK-47 ...Jul 95 220
AKM (Romanian) class characteristics and performance ...Summer 98 531
Alarm pistols firing 9mm K. (9mm Kurz, 9mm Knall, 9mm P.A.K., .380 ACP) ...Fall 2002 401
Alarm, audible, for personnel in shooting room ...Fall 99 495
Alcan shotgun adapter ...Jun 73 5
Alcohol, Tobacco, and Firearms, Bureau of - See **ATF**
Alexander James Ordnance - Thomas Model 45 auto pistol ...Jan 88 79
Alexander James Ordnance - Thomas Model 45 auto pistol ...Jul 87 318
Algorithms - See **Mathematical models** or **Statistical analysis**
All Purpose Ammunition [manufacturer] - Specialty shotgun ammunition (Avenger, Bolo, Chain Reaction, Comet Tracer, Flechette, Hammer, Mini Missile, Pit Bull, Shredder) ...Winter 02 53
Alligator examination ...Oct 83 23
Alox bullet lubricant ...Spring 00 143
Alteration of .38 Special cartridges to .38 S&W cartridges ...Spring 02 183
Alteration of firearm - See **Automatic conversion** or **Homemade firearms**
Altered ammunition, 12 Ga. Shells with steel balls and sheet lead ...Spring 97 231
Altered Revolver (homemade) ...Fall 2002 394
Altered rifling - Rifled barrel to a smooth bore ...Oct 91 928
Altering a firearm to conceal serial number obliteration/restamping ...Spring 01 133
Alternative modified Griess test paper ...Spring 2003 243
Alternative Open-Case-File Search System ...Spring 00 176
Aluminum barrel on American Derringer Corp. Model M-7, .380ACP caliber ...Winter 00 48
Amadeo Rossi - See **Rossi**
American Arms - Sites Spectre 9mm semiautomatic pistol ...Oct 91 1000
American Ballistics Company - Ammunition availability ...Jul 81 7
American Ballistics Company - Grand Slam cartridge ...Apr 91 679
American Derringer Corp. - .410 gauge and .45 Long Colt derringer ...Jan 92 63
American Derringer Corp. - Model M-7, .380ACP caliber derringer with aluminum barrel ...Winter 00 48
American Derringer Corp. - Models available ...Oct 82 10
American Derringer Corp. - Pen pistol ...Oct 95 294
American Eagle Ammunition - TMJ bullets in .25ACP cartridges ...Spring 00 166
American Firearms Co. - Derringer ...Oct 73 36
American Firearms Mfg. Co. - Model Stainless Steel O/U Derringer, .38 Special caliber pistol - **Safety warning** ...Winter 02 57
American Frontier Firearms Company - .44 AFF 4-in-1 cartridge ...Winter 01 60
American Industries - Calico M-100, M-100P .22LR carbine & pistol ...Apr 88 131
American Institute of Applied Science - Lessons 1 thru 3 ...Apr 82 16
American Institute of Applied Science - Lessons 4 thru 7 ...Jul 82 45
American Institute of Applied Science - Lessons 8 thru 10 ...Oct 82 51
American Rifleman Magazine, index of exploded views of firearms found, index of ...Winter 03 81
Ammunition - See also Cartridges
Ammunition interchangeability - See **Cartridge interchangeability**
Ammunition reference collections ...Summer 01 219
Ammunition update ...Spring 2003 242
Ammunition, standard for gunshot residue testing ...Fall 00 332
Ammunition, surplus - **Safety warning** ...Jan 93 12
AMP - Nail driver ...Jul 77 194
Ampact Shells - Nail driver ...Jul 77 194
AMT - General info ...Jul 86 69
AMT - Model 380 Backup rifling ...Jan 81 7
AMT - Model Automag II ...Apr 90 163

AMT - Model Backup ...Apr 85 97
AMT - Model Backup ...Jul 84 20
AMT - Model Backup ...Mar 77 42
AMT - Rifling ...Oct 81 52
Angle determination of bullet impact through plastic windows ...Winter 97 73
Angle gauge for trajectory angles ...Jul 93 231
Annealing to facilitate bullet comparison ...Summer 97 276
Antazoline Hydrochloride (GSR alternative) ...Apr 82 87
Antenna - Extrusion marks on interior ...Jan 96 19
Antique firearms - Serial numbers ...NLR 5 8
Anvil bounce ...Oct 95 318
Anvil bounce ...Oct 96 243
Anvil impressions in shotguns ...Winter 99 9
Anvil marks - See **Cartridge case comparison**
Anvil marks on a Ruger, Model MKII target pistol exhibit subclass characteristics ...Winter 03 75
APEX - Barrel makers ...Apr 85 71
Application of numerical criteria for identification in casework involving magazine marks and land impressions ...Fall 00 326
Aqua-Craft - Fastload power head (Anti-shark gun) ...Apr 79 86
Arcadia Machine and Tool - See **AMT**
Arcane - Armor piercing ammunition ...Apr 84 110
Arches on breechfaces ...Jul 95 213
Arco - Black Mag powder (black powder substitute) - Physical and chemical properties and performance ...Fall 01 313
Arcs on breechfaces ...Jul 95 213
Arcs on cartridge cases (breechface marks) ...Apr 96 82
ARES - Model FMG (folding machine gun) ...Apr 88 198
Armalite - Model AR-10 ...Oct 83 40
ArmaLite - Model AR-10 series rifles ...Summer 02 312
Armee Universal Gewehr - See **Steyr**
Armi Tanfoglio - Model GT41 with no rifling ...Apr 92 177
Armi Tanfoglio - Model TA-90 with odd chamber markings ...Jan 92 61
Armi Tanfoglio Giuseppe - Model GT-41 - Smoothbore ...Jul 94 203
Armi Tanfoglio Giuseppe - See also Erma-Excam
Armi Tanfoglio Giuseppe - Unrifled barrel ...Jul 77 154
Arminius - Model HW3 hammerblock failure ...Oct 93 286
Arminius - Revolver, accidental marks on a fired bullet ...Apr 96 80
Arminius - See also FIE
Armor piercing ammunition tests - See also Bullets or Ballistics, terminal
Armor piercing ammunition tests ...Apr 87 151
Armscor - Special Edition revolver ...Oct 88 459
ARMSCOR Precision Arms Corp. - Toolmarks on primers ...Summer 00 292
Arrow comparisons ...Apr 89 228
Arrow comparisons ...Jul 79 38
Arrow or bullet used to kill deer? ...Mar 78 11
Asphalt - Ricochet shooting reconstruction ...Winter 03 74
Assassination of Dr. Martin Luther King revisited ...Summer 97 297
Assault weapon legislation ...Spring 97 190
Associative evidence ...Apr 84 5
Associative evidence ...Apr 89 343
Astra - Model 900 broomhandle style pistol ...Mar 75 78
Atchisson Device ...Oct 73 18
ATF - Computerized reference firearms collection ...Jan 95 15
ATF - Curios or relics list ...Jun 78 72
ATF - Firearm collection ...Jan 79 23
ATF - History ...Apr 85 15
ATF - National Firearm Examiner Academy ...Fall 98 703
ATF - National Firearm Examiner Academy ...Summer 99 397
ATF - National Firearms Academy Receives Prestigious Awards ...Fall 01 361
ATF - Tracing ...Oct 84 91
ATF - Tracing Guidebook ...Jan 85
Atomic Absorption Spectrophotometry - of lead shot ...NLR 2 25
AUG - See **Steyr**

Augusta Powder Works - History ...Apr 74 8
Australian Ballistics Sections ...Summer 99 329
Australian Model F-1 machine gun ...Aug 73 28
Autauga - See **TMW**
Auto - See **Automobile**
Auto-ejecting revolver - Rohm, Model 66, defective loading gate allows ejection of cases ...Spring 98 354
Automated examinations - See **Computers & computer assistance**
Automatic conversion - AK-47 ...Spring 02 170
Automatic conversion - Beretta .25 ...Jan 88 31
Automatic conversion - Browning Hi-Power ...Apr 81 24
Automatic conversion - Browning Hi-Power ...Mar 78 13
Automatic conversion - Calico Model M-950 9mm pistol ...Summer 97 313
Automatic conversion - Charter Arms Model AR-7 ...Jan 88 37
Automatic conversion - CMP 45 pistol, normal wear of trigger assembly ...Oct 95 322
Automatic conversion - Colt - Fire control variations (M-16, AR-15, Sporter, Match Target) ...Winter 03 12
Automatic conversion - Colt Model AR-15 ...Apr 85 18
Automatic conversion - Colt Model AR-15 ...Jan 83 114
Automatic conversion - Colt Model AR-15 ...Jul 88 322
Automatic conversion - Colt Model AR-15 ...Jun 78 46
Automatic conversion - Colt Model AR-15 ...Spring 02 170
Automatic conversion - Filli. Pietta Model PPS/50 (Correction) ...Jul 90 345
Automatic conversion - Filli. Pietta Model PPS/50 ...Apr 90 174
Automatic conversion - FN Model FAL ...Jul 90 307
Automatic conversion - FN Model FNC ...Jul 89 509
Automatic conversion - Foxco carbine ...Apr 80 30
Automatic conversion - Full auto firing simulation ...Jan 92 8
Automatic conversion - HK94 ...Jul 90 302
Automatic conversion - Ingram 9mm Model RPB ...Jan 88 39
Automatic conversion - Interdynamics Model KG9 ...Jan 82 4
Automatic conversion - Interdynamics Model KG9 ...Jan 83 60
Automatic conversion - Intratec - Model TEC-9 - **Polymer frame damage may allow accidental firing or full automatic** ...Fall 2002 480
Automatic conversion - Intratec Model TEC 9 ...Apr 87 169
Automatic conversion - Intratec Model TEC 9 ...Apr 90 188
Automatic conversion - Intratec Model TEC 9 Update ...Apr 88 165
Automatic conversion - Intratec Model TEC 9, Full auto fire cause by faulty assembly ...Winter 00 51
Automatic conversion - Intratec, Model TEC 9 modification may be unreliable ...Winter 02 49
Automatic conversion - Iver Johnson Model Enforcer ...Jan 92 11
Automatic conversion - Kalishnikov Model AKS ...Winter 97 98
Automatic conversion - M1 carbine ...Apr 90 115
Automatic conversion - MAC Model M-10 ...Apr 85 110
Automatic conversion - Model AK-47 ...Jul 90 302
Automatic conversion - Norinco Model MAK-90 ...Spring 02 170
Automatic conversion - Norinco Model SKS rifle ...Summer 97 317
Automatic conversion - Norinco Model SKS rifle ...Summer 97 320
Automatic conversion - Norinco Type 56S ...Apr 92 180
Automatic conversion - RPB ...Apr 85 71
Automatic conversion - RPB ...Jul 84 13
Automatic conversion - RPB ...Oct 83 26
Automatic conversion - RPB ...Oct 88 452
Automatic conversion - RPB Model M-10 ...Jul 80 29
Automatic conversion - RPB Model M-10 ...Jul 89 511
Automatic conversion - Ruger Mark I pistol converted to full automatic ...Winter 00 47
Automatic conversion - Ruger revolver ...Mar 78 34
Automatic conversion - Savage Model 1917 Pistol ...Jul 91-870
Automatic conversion - Semiautomatics ...Oct 88 468
Automatic conversion - SKS modified to select fire (semi and full automatic) ...Winter 98 120
Automatic conversion - SKS rifle ...Summer 97 322
Automatic conversion - SWD Model M11 ...Jul 95 231 & Correction ...Oct 95 327
Automatic conversion - SWD Model M-11 ...Oct 90 414
Automatic conversion - Uzi - Model B ...Fall 2002 399
Automatic conversion - Uzi ...Apr 90 186

Automatic conversion - Uzi ...Oct 95 287
Automatic conversion - Video - Illegal Conversion ...Oct 88 466
Automatic conversion - Walther cocking notch filed ...Apr 88 195
Automatic conversion - Walther Model P-38 - Fires without pulling trigger ...Jul 95 233 & Correction ...Oct 95 327
Automatic conversion - Walther Model P-38 ...Jan 88 34
Automatic conversion - Walther Model PP .32 Auto, full automatic firing ...Jan 96 41
Automatic conversion - Wards Model 14M488A semiautomatic rifle ...Jun 78 52
Automatic firearms - Rates of fire ...Summer 00 252
Automatic safety - See **Safeties**
Automobile body penetration by bullets ...Jul 95 209
Automobile glass - See **Glass**
Automobile ignition lock ...Apr 83 97
Automobile ignition lock puller ...NLR 2 5
Automobile in motion, shots fired at ...Summer 99 324
Automobile tire and gunshot residues ...Fall 97 469
Automobile VIN plate alterations ...Apr 83 18
Auto-Ordnance - Thompson rifling ...Oct 81 53
Average phase scoring for bullets in the IBIS correlation results ...Spring 02 199
AVON round (frangible shotshell round) ...Apr 88 146
Avtomat Nikonova - See **Russia**
Axial lighting ...Oct 91 963
Back spatter from auto windshield glass ...Summer 98 445
Backlog solutions ...Oct 93 246
Bailing wire characteristics ...Jul 75 99
Ballistic Alignment Laser in scene reconstruction ...Summer 97 372
Ballistic Gelatin - See **Gelatin, ordnance**
Ballistic knife ...Apr 89 402
Ballistic knife ...Jul 86 60
Ballistic Research Industries - 12 gauge/500 Sabot bullet ...NLR 9 40
Ballistic Research Industries - BRI 12 ga/500 Sabot bullet ...Oct 83 15
Ballisti-Clean - Heavy metal-free primers for handloaders ...Fall 01 326
BallistiClean - See **Federal**
Ballistics - General overview ...Apr 82 26
Ballistics, exterior - 5.56 x 45mm SS109/M855, design and ballistic performance ...Winter 01 20
Ballistics, external - Balloting bullets, Exterior and wound ballistics & physical characteristics ...Fall 2002 375
Ballistics, external - 00 buckshot ...Winter 03 25
Ballistics, external - 00 Buckshot ballistics ...Spring 02 148
Ballistics, external - 5.45x39mm (M74) ...Summer 98 531
Ballistics, external - 9mm Parabellum cartridges ...Summer 97 330
Ballistics, external - Air guns ...Spring 98 336 & Peer review ...Summer 98 561
Ballistics, external - Air guns, contemporary ...Spring 98 262
Ballistics, external - Aircraft struck by stray bullets (analysis of trajectories) ...Jan 95 11
Ballistics, external - Angle gauge for trajectory angles ...Jul 93 231
Ballistics, external - Ballistic Alignment Laser in scene reconstruction ...Summer 97 372
Ballistics, external - Baltec1 computer program ...Jan 90 49
Ballistics, external - Buckshot trajectories ...Apr 89 457
Ballistics, external - Buckshot trajectories ...Oct 88 404
Ballistics, external - Buckshot, 00 ...Winter 03 25
Ballistics, external - Calculating trajectories using SMARTLEVEL ...Jul 91 869
Ballistics, external - Calculations, Use in crimes ...Apr 89 190
Ballistics, external - Calculations, Use in crimes ...Dec 76 45
Ballistics, external - Calculations, Use of ...Jan 79 13
Ballistics, external - Calculations, Use of, to determine LOS ...Oct 91 919
Ballistics, external - Computer program ...Apr 90 217
Ballistics, external - Computer program ...Jan 91 505
Ballistics, external - Computer program ...Jul 90 341
Ballistics, external - Dixon, Billy's long shot ...Jul 95 222
Ballistics, external - Doppler radar uses ...Apr 92 129
Ballistics, external - Energy of projectiles downrange ...Dec 76 53
Ballistics, external - Evaluation of police ammunition ...Feb 74 11
Ballistics, external - Hornady Vector ammunition for illuminated trajectories ...Jan 96 32

Ballistics, external - How do bullets fly? (yaw, aerodynamic forces, stability, coning motion, etc.) ...Apr 96 104

Ballistics, external - Laser for trajectory determinations ...Jan 92 65

Ballistics, external - Laser pointer in crime scene reconstruction ...Jul 94 170

Ballistics, external - LaserMax gunsight as ballistics alignment tool ...Summer 97 369

Ballistics, external - Laser-measurement of angles of elevation ...Jul 91 869

Ballistics, external - Laser-theodolite used in reconstruction ...Jan 91 538

Ballistics, external - Line level for measurements ...Jan 93 21

Ballistics, external - Modification to the common trigonometric method of bullet impact angle determination ...Spring 01 116

Ballistics, external - Molotov cocktail ...Jul 93 199

Ballistics, external - Oehler Model 43 Personal Ballistics Laboratory System, Forensic Uses ...Winter 02 16

Ballistics, external - Overview ...Oct 81 130

Ballistics, external - Point of origin of shots into moving car ...Jan 91 524

Ballistics, external - Range estimates from bullet deformation ...Jan 93 31

Ballistics, external - Range of shot pellets ...NLR 12 4

Ballistics, external - Range of shot pellets ...NLR 20 36

Ballistics, external - Range, maximum of .22 ...Jun 78 49

Ballistics, external - Reconstructing bullet paths with unfixed intermediate targets ...Jan 95 45

Ballistics, external - Reconstruction techniques ...Apr 85 53

Ballistics, external - Ricochet ...Jul 91 830

Ballistics, external - Sound of bullets ...Summer 02 255

Ballistics, external - Stability in flight, assessment of bullet ...Jul 91 830

Ballistics, external - Trajectory analysis ...Apr 87 124

Ballistics, external - Trajectory analysis ...Jan 85 47

Ballistics, external - Trajectory analysis program (MS-DOS comp.) ...Jul 91 784

Ballistics, external - Trajectory analysis using SMARTLEVEL ...Jul 91 869

Ballistics, external - Trajectory of polyethylene shot buffer ...Jul 84 132

Ballistics, external - Trig-Elliptical method of bullet impact angle determination ...Spring 01 122

Ballistics, external - Uphill and downhill shooting ...Jan 89 21

Ballistics, external - Velocity and dual ignition of rimfires ...Apr 80 21

Ballistics, external - Vertical firing ...Jan 90 27

Ballistics, external - Yaw, Method to Assess Bullet Stability ...Jul 91 831

Ballistics, internal - 00 buckshot ...Winter 03 25

Ballistics, internal - Barrel length vs. velocity ...Jan 79 37

Ballistics, internal - Buckshot, 00 ...Winter 03 25

Ballistics, internal - Bullets, undersized ...Oct 79 13

Ballistics, internal - Overview and case ...Oct 83 42

Ballistics, internal - Photography of muzzle/cylinder flash ...Oct 91 910

Ballistics, terminal - Balloting bullets, Exterior and wound ballistics & physical characteristics ...Fall 2002 375

Ballistics, terminal - .30 military ammunition ...NLR 9 20

Ballistics, terminal - 00 Buckshot ballistics ...Spring 02 148

Ballistics, terminal - 5.45x39mm (M74) ...Summer 98 531

Ballistics, terminal - 5.56 x 45mm SS109/M855, design and ballistic performance ...Winter 01 20

Ballistics, terminal - 5.7x28mm 23gr. FMJ bullet and FN P-90 ...Spring 98 326

Ballistics, terminal - 9mm 147gr. JHP and HK MP-5 ...Spring 98 330 & Peer review ...Summer 98 560

Ballistics, terminal - Aircraft struck by stray bullets (analysis of penetration) ...Jan 95 11

Ballistics, terminal - Angle of shot pellets with flat ...Jul 82 13

Ballistics, terminal - Auto body penetration ...Jul 95 209

Ballistics, terminal - Auto glass impacts and trajectories ...Apr 93 79

Ballistics, terminal - Ballistic Alignment Laser in scene reconstruction ...Summer 97 372

Ballistics, terminal - Barrel leading ...Apr 83 14

Ballistics, terminal - Base deformation as an index of impact velocity for full metal jacketed rifle bullets ...Winter 01 11

Ballistics, terminal - Blunt Trauma Modeling from Projectile Impact ...Winter 02 26

Ballistics, terminal - Book review - "Bullet Penetration - Modeling . . ." ...Apr 95 150

Ballistics, terminal - Bullet deflection due to angled intervening materials ...Fall 01 304

Ballistics, terminal - Bullet hole probe techniques ...Jan 96 57

Ballistics, terminal - Bullet holes in metal screens ...Jul 77 181

Ballistics, terminal - Bullet perforations of lead targets ...Jul 77 41

Ballistics, terminal - Bullet performance ...Oct 88 446

Ballistics, terminal - Bullet ricochet from water ...Jul 79 27

Ballistics, terminal - Choke™ 12 gauge 00 Buckshot loads, wounding effects ...Summer 02 287

Ballistics, terminal - Crown and bank road structure affects bullet path angles ...Winter 98 89

Ballistics, terminal - Deflection and intervening objects ...Oct 87 382

Ballistics, terminal - Distance estimation in shootings, bullet holes in cadavers, Firearms Report Review Paper - 1998-2001 ...Fall 2002 409

Ballistics, terminal - Distance estimation in shootings, bullet holes in objects, Firearms Report Review Paper - 1998-2001 ...Fall 2002 409

Ballistics, terminal - Distance estimation in shootings, clothing items, Firearms Report Review Paper - 1998-2001 ...Fall 2002 409

Ballistics, terminal - Effect of angle of hollow point bullets fired into gelatin ...Jul 94 193

Ballistics, terminal - FN - Model P-90 (5.7x28mm, 31 grain, SS-190 FMJ bullet) ...Summer 02 302

Ballistics, terminal - Glass target - Phenomena attending flight of .315"/8mm projectile ...Fall 2002 368

Ballistics, terminal - Glass, bullet trajectory determination ...Spring 98 309

Ballistics, terminal - High velocity toolmarks ...Jul 77 134

Ballistics, terminal - Impact angle determination through plastic windows ...Winter 97 73

Ballistics, terminal - Impact spalls in frangible surfaces ...Oct 80 71

Ballistics, terminal - LaserMax gunsight as ballistics alignment tool ...Summer 97 369

Ballistics, terminal - Linoleum over wood ricochets ...Jul 88 300

Ballistics, terminal - Material hardness effects ...Jul 88 300

Ballistics, terminal - Metal damage by projectiles, quiz ...Apr 88 194

Ballistics, terminal - Modeling Blunt Trauma from Projectile Impact ...Winter 02 26

Ballistics, terminal - Modification to the common trigonometric method of bullet impact angle determination ...Spring 01 116

Ballistics, terminal - Motor vehicles in motion, shots fired at ...Summer 99 324

Ballistics, terminal - Penetration in metal pipe ...Sep 78 35

Ballistics, terminal - Penetration of BBs ...Oct 87 426

Ballistics, terminal - Penetration of exterior house walls by modern police ammunition ...Summer 97 346

Ballistics, terminal - Penetration of pellets ...Oct 87 426

Ballistics, terminal - Penetration of round ball ...Apr 88 135

Ballistics, terminal - Penetration of round ball ...Oct 84 80

Ballistics, terminal - Penetration of thin metal sheets ...Apr 86 18

Ballistics, terminal - Penetration tests ...Apr 87 151

Ballistics, terminal - Penetration tests, Nyclads and Silvertips ...Apr 85 83

Ballistics, terminal - Plastic penetrated by bullet ...Oct 92 356

Ballistics, terminal - Point of origin of shots into moving vehicle ...Jan 91 524

Ballistics, terminal - Range estimates from bullet deformation ...Jan 93 31

Ballistics, terminal - Ricochet analysis ...Oct 87 374

Ballistics, terminal - Ricochet on water surfaces ...Jul 84 88

Ballistics, terminal - Screen wire, shotgun holes ...NLR 17 26

Ballistics, terminal - See also Ricochet

Ballistics, terminal - See also Wounding effects

Ballistics, terminal - Sheet metal penetration and perforation ...Fall 97 431

Ballistics, terminal - Sheet metal perforation by 5.56 x 45mm SS109/M855 bullets ...Winter 01 20

Ballistics, terminal - Sheet metal ricochet ... Jul 88 300

Ballistics, terminal - Shot pellet patterns, angled ...Jul 95 204

Ballistics, terminal - Shotgun slug entrance wound sizes ...Apr 89 429

Ballistics, terminal - Shotgun slug entrance wound sizes ...Oct 87 433

Ballistics, terminal - Skin Perforation and Skin Simulants ...Summer 02 268

Ballistics, terminal - Spherical projectiles, forensic aspects ...Winter 98 102

Ballistics, terminal - Strike flash from bullets ...Jul 88 294

Ballistics, terminal - Tempered glass and trajectory effects ...Jul 83 29

Ballistics, terminal - Trig-Elliptical method of bullet impact angle determination ...Spring 01 122

Ballistics, terminal - Wood ricochet ...Jul 88 300

Ballistics, terminal - Wound track casts ...Jul 75 110

Ballistics, terminal - Wounding patterns of military rifle bullets ...Oct 89 643

Balloting bullets: Exterior & wound ballistics, physical characteristics, & associated cartridge cases ...Fall 2002 375

Baltec1 - Computer ballistics program ...Jan 90 49

Bank surveillance photograph of firearm identified ...Winter 97 45

Barcodes - History and decryption ...Summer 02 264

Barcodes - Laser engraved, a preliminary study ...Summer 01 280

Barrel altered from rifled to smoothbore ...Oct 91 928

Barrel cleaning - Mercury bath barrel restoration technique ...Jul 96 204

Barrel constriction deforms bullet ...Jun 74 17

Barrel corrosion - effect on identification ...NLR 13 34

Barrel extension lug marks on cartridge cases from M-16 assault rifles ...Spring 97 210

Barrel length - Effect on shot/powder dispersion ...Jan 82 29
Barrel length - Effect on velocity ...Jan 89 16
Barrel length - Effect on velocity and energy ...Jan 79 37
Barrel length - Projectile deformation ...Oct 79 112
Barrel length - Shot patterns ...NLR 11 26
Barrel length - vs. powder type in gunshot residues ...Jul 90 318
Barrel manufacturing techniques - Articles ...Apr 83 18
Barrel manufacturing techniques - Coronet Mfg. Company ...Oct 82 8
Barrel manufacturing techniques - Electrochemical machining ...Jan 88 48
Barrel manufacturing techniques - Electrochemical machining ...Oct 88 396
Barrel manufacturing techniques - Overview ...Apr 82 70
Barrel obstructed by bullet jacket ...Fall 00 359
Barrel obstruction tests ...Oct 91 951
Barrel wear and identification of bullets ...Oct 74 22
Barrel, aluminum, on American Derringer Corp. Model M-7, .380ACP caliber ...Winter 00 48
Barrel, leaded, smoothbore/shot out - lead imprints aid bullet ID ...Oct 91 980
Barrels - Sawed off ...NLR 8 20
Bar-Sto - Aftermarket barrels for Glock pistols ...Fall 98 640
Bartles, Frank, and Jaymes, Ed ...Oct 89 638
Base deformation as an index of impact velocity for full metal jacketed rifle bullets ...Winter 01 11
Battery cup manufacturing marks ...Winter 99 31
Battery discharges cartridge ...Jun 78 88
Battery terminal toolmarks ...Apr 88 151
Bauer - .25 ACP accidental discharge ...Jan 82 62
Bauer - .25 ACP pistol ...Dec 76 20
Bauer - .25 ACP pistol with unrifled barrel ...Summer 97 365
Bauer - Over/under rifle/shotgun ...Apr 83 9
Bauer - Rifling change in .25 pistols ...Mar 78 16
Bayard Shotgun ...Jan 82 48
Bayesian Analysis - Response by Bruce Moran ...Spring 02 227
BB guns - See **Air guns**
BB in nose of .45 ACP bullets ...Jul 96 179
Bee Miller - Hi-Point 40 and 45 caliber polymer framed pistols - components, rifling, & hidden serial numbers ...Spring 2003 243
BEE Miller - Hi-Point firearms, hidden serial number ...Summer 01 273
Bee Miller - Hi-Point Model 4095 ...Spring 2003 243
Bee Miller - Hi-Point Model 4595 ...Spring 2003 243
BEE Miller - Hi-Point Model 995, 9mm caliber carbine, atypical rifling ...Spring 00 166
BEE Miller - Hi-Point pistol hidden serial number ...Oct 96 241
BEE Miller - Hi-Point pistol, Model C, 9L rifling characteristics ...Winter 00 46
BEE Miller - Hi-Point pistol, Model C, atypical rifling characteristics ...Winter 98 122
BEE Miller - Hi-Point pistol, Model C, atypical rifling characteristics ...Fall 98 639
Beer can bazooka ...Apr 89 230
Beer can bazooka ...Jul 79 41
Beeswax bullet lubricant ...Spring 00 143
Belgium - copy of Colt Positive Police ...Jul 92 291
Bellemore, Walter M. (Ballistician) ...Jul 80 8
Benelli M1 Super 90 - Firing pin alteration ...Oct 91 908
Beretta - 9mm pistol copied by Danshway ...Jul 92 311
Beretta - Arcs on breechfaces ...Jul 95 213
Beretta - Cartridge case class chars. can be similar to Browning/Colt ...Jul 96 150
Beretta - Ejection port marks (signature of Beretta) ...Summer 01 251
Beretta - Ejector cut-out marks, Comparison value ...Fall 2002 391
Beretta - Iraqi copy (Tariq) ...Apr 93 128
Beretta - Model 100 ...NLR 20 30
Beretta - Model 20 discharged in pocket ...Apr 88 209
Beretta - Model 3032 Tomcat, mark from magazine weld ...Winter 03 71
Beretta - Model 92 Compact "L" ...Winter 97 14
Beretta - Model 92 series magazine in FN pistol could result in accidental discharge ...Fall 99 483
Beretta - Model 92FS 9mm ...Jul 90 288
Beretta - Model 92SB (renamed 92 Compact "L") ...Winter 97 14
Beretta - Model M9 (civilian) ...Summer 99 366

Beretta - Rifling ...Oct 81 52
Beretta - Serial numbers ...Oct 72 28
Beretta - Tomcat Model 3032, breechface marks ...Spring 01 142
Beretta - Underwater firing of a 950B at a glass target ...Fall 00 354
Bersa - 83 and 85, 380 auto caliber semiautomatic ...Jul 91 862
BHN hardness (lead bullet and core hardness as a class characteristic) ...Jan 95 77
Bias ...Oct 93 259
Billings Precision Buckshot round - Shot spread reducing and shot spread eliminating shotgun wads ...Fall 00 361
Billy gun - Lake Erie Detective Gas Billy - Model D-35 ...Winter 99 20
Bingham - Devastator ammunition ...Jul 81 15
Bingham - Exploder cartridge ...Jul 81 15
Bingham - Exploder cartridge ...Oct 79 19
Bingham - Exploder cartridge ...Sep 78 47
Bismuth (shot pellets) - See **Shotshells & components**
Black Canyon powder (black powder substitute) - Physical and chemical properties and performance ...Fall 01 313
Black Mag powder (black powder substitute) - Physical and chemical properties and performance ...Fall 01 313
Black powder - Background ...Apr 91 689
Black powder - Ball identified by plunger hole marks ...Oct 95 310
Black powder - Birdshot load ...Apr 83 8
Black powder - Chemistry ...Oct 85 57
Black powder - Firearms ...Oct 84 80
Black powder - Flintlocks with uranium on frizzen ...Jul 93 240
Black powder - History ...Oct 87 443
Black powder - Loading plunger toolmark identified ...Jul 75 86
Black powder - Loading plunger toolmark identified ...Jun 74 13
Black powder - Loading plunger toolmark identified ...Mar 77 66
Black powder - Marks on ramrod indicate usual powder load ...Apr 89 229
Black powder - Marks on ramrod indicate usual powder load ...Jul 79 39
Black powder - Multiple ball discharge ...Apr 90 206
Black powder - New source ...Apr 74 13
Black powder - Overload causes explosion inside skull ...Apr 89 229
Black powder - Overload causes explosion inside skull ...Jul 79 39
Black powder - Overview ...Jul 84 168
Black powder - Powder residue ...Oct 84 80
Black powder - Revolver loaded with smokeless ...Oct 81 115
Black powder - Safety precautions ...Apr 89 435
Black powder - Substitutes: Their Physical and chemical properties and performance ...Fall 01 313
Black Talon - See **Winchester**
Black Widow - Ammunition ...Jul 84 15
Blackstar bore treatment ...Spring 97 235
Blank cartridges - Discharge residues ...Apr 89 406
Blank cartridges - Discharge residues ...Oct 86 33
Blank cartridges - Plastic cased ...Dec 75 64
Blank cartridges, fatal neck injuries, Firearms Report Review Paper - 1998-2001 ...Fall 2002 409
Blank pistols modified to fire 9mm K. (.380 ACP) ...Fall 2002 401
Blaser - Ultimate Model rifle - **Safety warning** ...Jan 91 507
Bleach solutions and bullet disinfectant ...Oct 89 618
Blood - Bleeding as a source of lead particulates on clothing ...Oct 94 269
Blood - Effects on bullets ...Jan 80 32
Blood - Effects on Gunshot residues ...Apr 83 102
Blood - Removal from fabric ...Apr 94 155
Blood - Removal from fabric ...Jan 94 26
Bluing - Effects on individual characteristics on cartridge casings ...Oct 96 256
Blunt force injuries ...Apr 89 355
Blunt Trauma, modeling from projectile impact ...Winter 02 26
Body armor - General ...Apr 84 82
Body armor - History & testing ...Oct 95 281
Body armor - Lightweight ...NLR 9 23
Body armor - Military ...Jan 93 25
Body armor - Modeling Blunt Trauma from Projectile Impact ...Winter 02 26
Body armor - New development in testing & procurement ...Oct 95 281

Body armor - Testing ...Jul 76 84
Body armor - Testing of Burlington Protective Products vest ...Dec 75 52
Body tissue removal from bullets ...Apr 94 102
Boito - Pistol ...Jun 73 23
Bolt cutter toolmarks ...Fall 97 484
Bolt cutters - Consecutive manufacture & extended cutting ...Jul 92 260
Bolt cutters - Manufacture ...Jul 89 508
Bolt cutters - Mark identified ...Jan 94 21
Bolt cutters - Matching sub-class striae (from China) ...Oct 93 298
Bolt gun - Homemade ...Jan 82 31
Bombing - Suicide bomber's weapon (FN Hi-Power, 9mm Luger caliber) ...Fall 01 335
Bombs - See **Explosives & devices**
Bone - Marked by knife, identification made ...Oct 95 293
Booby trap - Jewelry box ...Apr 90 208
Booby trap - See also Explosives & Devices
Booby trap - Shotshell ...Jan 80 35
Book review - American National Standard of New Firearms Designs ...Jul 91 799
Book review - Ammunition Making ...Fall 01 362
Book review - Cartridges for Small Arms ...Fall 01 362
Book review - Firearms, The Law and Forensic Ballistics by T. A. Warlow ...Spring 97 239
Book review - Gun in the Case, The ...Winter 00 40
Book review - Gunshot Injuries by La Garde ...Jul 91 799
Book review - Handbook of Firearms and Ballistics - Exam. & Interp. For. Evid. by Brian J. Heard ...Spring 97 172
Book review - History & Development of the M-16 Rifle & Cartridge ...Jul 91 798
Book review - Identification of Firearms and Forensic Ballistics ...Jul 91 799
Book review - Individualization: Principles and Procedures in Criminalistics ...Oct 95 317
Book review - Locks, Safes, and Security ...Fall 01 362
Book review - Marlin Firearms - A History of the Guns & Company ...Jul 91 800
Book review - Military Rifle and Machine Gun Cartridges ...Oct 91 957
Borescope, Hawkeye, by Gradient lens Corp. ...Apr 96 144
Borescopes ...Apr 85 90
Brand name index - Index of firearm brand names and distributors from 1939 sporting goods trade directory ...Spring 2003 260
Brass training cartridges, Solid Training Round (STR) ...Winter 00 45
Brasscatcher - Protocols for casing entry ...Summer 97 326
Brasscatcher - See also IBIS
Brasscatcher Performance Study ...Jul 96 194
Breda - Ejector cut-out marks, Comparison value ...Fall 2002 391
Breechface headstamp impression ...Spring 98 363
Breechface identifications incorrectly based on "Family characteristics" ...Apr 96 95
Breechface marks - Casting aids identification ...Oct 83 24
Breechface marks - Casting aids identification ...Oct 83 53
Breechface marks - Raven ...Jul 84 57
Breechface marks - See also Cartridge case comparison
Breechfaces, consecutively manufactured Ruger P-89 slides ...Spring 2003 157
Bren Ten ...Jan 82 35
BRI - See **Ballistic Research Industries**
Briefcase gun ...Winter 99 58
Brightfield illumination ...Jan 86 25
Brocock - Air gun model ME38 converted to .25 ACP caliber ...Winter 01 53
Bronco - See **Garcia**
Broomstick bullets ...NLR 9 22
Brownell's - Tools ...Oct 90 453
Brownell's Gunsmith Tool Catalog ...Jul 83 17
Browning - .22 Magnum A-bolt rifles **Safety warning** ...Jul 90 329
Browning - .25 ACP pistols ...NLR 9 39
Browning - Cartridge case class chars. can be similar to Beretta ...Jul 96 150
Browning - Class characteristics ...Oct 72 31
Browning - Hi Power - Arcs on breechfaces ...Jul 95 213
Browning - Hi-power accidental discharge ...Oct 96 233
Browning - Hi-Power automatic conversion ...Apr 81 24
Browning - Hi-Power automatic conversion ...Mar 78 13

Browning - Hi-Powers manufactured without magazine safeties ...Jun 78 87
Browning - Model BLR, Long action rifles - **Safety warning** ...Winter 02 17
Browning - Serial numbering ...Apr 85 22
Browning - Serial numbering ...Apr 89 437
Browning - Serial numbering ...Jan 88 59
Brownsville riot ...Oct 86 65
Bryco Arms - Accidental discharge potential ...Winter 01 48
Bryco Arms - Breechface marks ... Winter 99 67
Bryco Arms - Class characteristics ...Jan 92 22
Bryco Arms - Jennings Model Nine 9mm pistol, breechface marks ...Fall 98 652
Bryco Arms - Jennings Model Nine, magazine safety problem ...Summer 99 379
Bryco Arms - Jennings Nine model spontaneously fires full-auto due to sear tip wear ...Spring 01 143
Bryco Arms - Model 38, .380 ACP caliber semiautomatic pistol - **Safety warning** ...Winter 02 59
Bryco Arms - Model 59 9mm (will fire .380 Auto ammo) ...Apr 95 130
Bryco Arms - Model Jennings Nine, 9mm Luger caliber semiautomatic pistol - **Safety warning** ...Winter 02 60
Bryco Arms - Name changes for models ...Winter 02 52
Bryco Arms - Primer indentations on unfired cartridges ...Jan 95 61
Bryco Arms - See also Jennings
Bryco Arms - Semiautomatic pistol ...Apr 90 194
Bryco Arms- Model 59 with unusual caliber stamp ...Spring 99 147
Buckshot - See Shotshells & components
Buckshot patterning variation & meas. using equivalent circle dia. method ...Summer 98 455
Buffers – See also Shotshells & components
Buffers, shotshell, analysis and comparison ...Summer 00 277
Building an inexpensive high intensity fluorescent lighting system for the comparison scope ... Winter 97 49
Bullet comparison - .410 slug fired in a .45 Colt handgun ...Oct 81 90
Bullet comparison - 00 buckshot pellet identification ...Oct 96 252
Bullet comparison - 8000 German police firearms test fired and compared ...Jan 95 27
Bullet comparison - Aircraft struck by bullet, class characteristics of bullet on metal at exit hole ...Spring 99 163
Bullet comparison - Alloys, spectrographic analysis ...Oct 82 74
Bullet comparison - Aluminum wash on bullets from aluminum derringer barrel ...Winter 00 48
Bullet comparison - Annealing to facilitate comparison ...Summer 97 276
Bullet comparison - Antique ammunition ...Winter 01 50
Bullet comparison - Arminius revolver accidental marks on a fired bullet ...Apr 96 80
Bullet comparison - Automated comparisons ...Jul 93 172
Bullet comparison - Automatic land mark comparison (Correction) ...Jul 90 346
Bullet comparison - Barrel altered from rifled to smoothbore ...Oct 91 928
Bullet comparison - Barrel location which marks bullets ...Oct 86 40
Bullet comparison - Barrel wear ...Oct 74 22
Bullet comparison - Bauer .25 Auto with unrifled barrel ...Summer 97 365
Bullet comparison - BB ...Mar 78 26
Bullet comparison - Bearing surface composition & lead fouling ...Apr 81 94
Bullet comparison - Black powder ball identified by plunger hole marks ...Oct 95 310
Bullet comparison - Blackstar bore treatment (electropolishing) ...Spring 97 235
Bullet comparison - Buckshot - A "Reassembled" Load ...Jul 91 792
Bullet comparison - Buried bullet striae ...Apr 85 112
Bullet comparison - Buried bullet striae ...Apr 88 163
Bullet comparison - Caliber from X-rays ...Apr 80 47
Bullet comparison - Caliber from X-rays ...Jul 80 66
Bullet comparison - Caliber from X-rays, problems ...Apr 80 54
Bullet comparison - Cannelure impressions inside cartridge case ...Oct 91 970
Bullet comparison - Cannelure toolmark identified ...Spring 97 179
Bullet comparison - Case striae replication ...Oct 81 59
Bullet comparison - Casting the barrel to compare to bullets ...Spring 97 215
Bullet comparison - Chamber flute marks on bullet ...Apr 94 145
Bullet comparison - Chamber marks ...Apr 79 42
Bullet comparison - Chamber marks from Lorcin L25 ...Jan 92 17
Bullet comparison - Chamber marks identified ...Oct 82 18
Bullet comparison - Class characteristics variation ...Mar 77 22
Bullet comparison - Class chars. of overpressured cast bullets ...Oct 81 100
Bullet comparison - Coated vs. cast bullets (Idaho Territory bullets from Speer) ...Spring 02 202

Bullet comparison - Comparison SEM ...Apr 83 47
Bullet comparison - Comparison SEM ...Jul 83 141
Bullet comparison - Competence or incompetence? ...Apr 79 12
Bullet comparison - Concrete depression matched to fired bullet ...Oct 91 977
Bullet comparison - Consecutively fired bullets ...Apr 89 331
Bullet comparison - Consecutively fired bullets ...Jul 83 109
Bullet comparison - Consecutively fired bullets ...Jul 83 113
Bullet comparison - Consecutively fired bullets ...Jul 83 127
Bullet comparison - Consecutively manuf. button rifled barrels ...Jul 81 84
Bullet comparison - Consecutively manuf. button rifled barrels ...Apr 89 370
Bullet comparison - Consecutively manufactured Cooney rifle barrels ...Jan 81 46
Bullet comparison - Consecutively rifled barrels ...Jan 83 33
Bullet comparison - Consecutively rifled revolver barrels ...Apr 89 120
Bullet comparison - Cores marked with apparent rifling ...Apr 88 189
Bullet comparison - Cores of .22 Mag. similar to coated lead .22s ...Apr 83 60
Bullet comparison - Criteria for identification and bullet striae ...Spring 02 158
Bullet comparison - Crowning effects ...NLR 7 12
Bullet comparison - Damaged muzzle recrowned ...Oct 87 440
Bullet comparison - Dan Wesson reversible barrels ...Jan 79 26
Bullet comparison - Dangers in pulling explosive bullets ...Apr 81 14
Bullet comparison - Deformities and barrel length ...Oct 79 112
Bullet comparison - Different guns, similar marks ...Jul 77 64
Bullet comparison - Dry fire damage to firearm leaves marks on bullets ...Apr 92 162
Bullet comparison - Effects of blood ...Jan 80 32
Bullet comparison - Electrochemical machining, identifiability ...Oct 88 396
Bullet comparison - Electronic imaging, recording, and comparison ...Oct 91 990
Bullet comparison - Electronic spark reduction to mark barrels to aid bullet identification ...Spring 97 232
Bullet comparison - False land impressions on bullet cores ...Winter 99 55
Bullet comparison - Firing sequence, two 303 British cartridges ...Jul 91 816
Bullet comparison - Frangible bullets ...Spring 98 340
Bullet comparison - Frequencies of identifiability ...Oct 88 376
Bullet comparison - Fry's reagent used on bullets to enhance identification ...Spring 97 197
Bullet comparison - Gas scarfing on lead bullets ...Jul 77 50
Bullet comparison - General ...Jan 82 34
Bullet comparison - General ...Oct 85 57
Bullet comparison - General ...Oct 87 393
Bullet comparison - Groove measurements ...Jul 76 63
Bullet comparison - Guesswork? ...Apr 79 9
Bullet comparison - H&K USP polygonal barrels ...Summer 97 307
Bullet comparison - History ...Jul 80 31
Bullet comparison - Hollowpoint mushrooming prevention ...Jan 95 52
Bullet comparison - Hollowpoint mushrooming prevention ...Oct 82 11
Bullet comparison - Impression of zipper on bullet nose ...Jul 94 199
Bullet comparison - Imprints on bullet nose ...Dec 76 28
Bullet comparison - Individual characteristics criteria (overview) ...Spring 98 276
Bullet comparison - Individuality ...Apr 82 78
Bullet comparison - Influence of the use of firearms on their characteristic marks ...Summer 99 318
Bullet comparison - Invention to mark bullets in barrel ...Jun 78 69
Bullet comparison - Inverted bullet jacket ...Jan 82 65
Bullet comparison - Is it a bullet? ...Apr 81 33
Bullet comparison - Jacket bending to facilitate comparison ...Apr 93 149
Bullet comparison - Land and groove dimensions ...Jan 83 81
Bullet comparison - Lead ball classification ...Apr 80 40
Bullet comparison - Lead Imprints of bullets ...Oct 91 980
Bullet comparison - Lead smear removal for identification ...Winter 98 127
Bullet comparison - Lead smear removal from jacketed bullets ...Jul 90 342
Bullet comparison - Mag-na-port marks from a 357 S&W revolver ...Oct 91 903
Bullet comparison - Magnesium smoke technique ...Jul 77 128
Bullet comparison - Malformed bullet due to barrel constriction ...Jun 74 17
Bullet comparison - Marks, interpreting, Firearms Report Review Paper - 1998-2001 ...Fall 2002 409
Bullet comparison - Matching bullet to cartridge case ...Oct 81 79

Bullet comparison - Matching bullet to cartridge case ...Spring 98 318
Bullet comparison - Mercury bath barrel restoration technique ...Jul 96 204
Bullet comparison - Mock testimony ...Summer 00 231
Bullet comparison - Mold marks on cast bullets ...Mar 75 73
Bullet comparison - Molycoated bullet matching ...Summer 97 357
Bullet comparison - Mushroomed bullet base ...Oct 91 928
Bullet comparison - No gun cases ...Jul 87 306
Bullet comparison - Numerical criteria for identification in casework involving magazine and land impressions ...Winter 01 41
Bullet comparison - Nyclad bullets are identifiable ...Jul 79 66
Bullet comparison - Obstructed barrel tests using 25 caliber pistols ...Winter 01 58
Bullet comparison - Origin of markings ...Jan 81 57
Bullet comparison - Overflow past bullet base in land impressions (from Talon Model T100 .380 Auto pistol ...Winter 01 56
Bullet comparison - Plunger of cap and ball revolver identified ...Mar 77 66
Bullet comparison - Polishing material found on bullets, cases ...Jul 92 244
Bullet comparison - Polygonal barrel sub-family characteristics, identification of ...Spring 2003 197
Bullet comparison - Polygonal rifling problems, magnesium smoke ...Spring 97 197
Bullet comparison - Ported barrel, Glock pistol, bullets identified ...Fall 01 333
Bullet comparison - Probability of consecutive striae, IBIS study and overview ...Winter 98 15 (Part II - Spring 00 116)
Bullet comparison - Propellant type on bullet base ...Apr 80 26
Bullet comparison - Pushed bullet comparison ...Fall 99 486
Bullet comparison - Reloading die marks on bullet nose ...Spring 98 347
Bullet comparison - Remington bullet jacket with six flats ...Jan 79 30
Bullet comparison - Remington bullet jacket with six flats ...Jun 78 28
Bullet comparison - Remington bullet jacket with six flats ...Sep 78 31
Bullet comparison - Revolver chamber striae ...Jul 81 62
Bullet comparison - Rib effect ...Jul 95 259
Bullet comparison - Rifling "unwound" at impact ...Apr 80 33
Bullet comparison - Ruger P-85 barrels consecutively rifled ...Summer 98 438
Bullet comparison - S&W revolver barrels consecutively manufactured ...Spring 99 117
Bullet comparison - Scanning electron microscope applicability ...Jul 92 294
Bullet comparison - Shotgun pellet and slug matching ...Jan 92 28
Bullet comparison - Shotgun slug identification ...Oct 86 62
Bullet comparison - Silencer ...Jan 83 77
Bullet comparison - Silencer marks ...Oct 94 292
Bullet comparison - Silencer marks ...Fall 97 401
Bullet comparison - Silencer marks, case study ...Oct 96 247
Bullet comparison - Smoothbore revolver ...Oct 91 928
Bullet comparison - Striae reproducibility on sectional cuts of one Thompson Contender barrel ...Winter 98 62
Bullet comparison - Stripping and axial engraving ...Jan 81 53
Bullet comparison - Surface topology of bullet striations ...Spring 98 294
Bullet comparison - Taped cartridges ...Mar 75 31
Bullet comparison - Theory of identification and bullet striae ...Spring 02 158
Bullet comparison - Trace evidence leads to DNA "match" ...Winter 97 58
Bullet comparison - Twist measurement ...Jan 83 104
Bullet comparison - Undersized bullets ...Oct 79 13
Bullet comparison - Unrifled barrel ...Jul 77 154
Bullet comparison - Unrifled barrel ...Jul 77 187
Bullet comparison - Unrifled barrel ...Jun 78 27
Bullet comparison - Unusual engravings ...Oct 79 38
Bullet comparison - Vacuum evaporation of metals enhance features ...Oct 86 76
Bullet comparison - Velocity effects ...Jan 83 56
Bullet comparison - Wadcutter loaded backward ...Mar 78 31
Bullet comparison - Weight variability, fired and unfired ...Jul 81 31
Bullet core weights ...Winter 98 125
Bullet core, false land impressions ...Winter 99 55
Bullet correlation - Ultra Clean effects on IBIS correlation scores ...Spring 02 165
Bullet deflection due to angled intervening materials ...Fall 01 304
Bullet diameter measurements ...Summer 98 428
Bullet holding adhesive ...Jul 87 301
Bullet holes - Measurement ...Apr 88 149
Bullet holes - Recording them at crime scenes ...Jul 96 168

Bullet holes - Size information ...Oct 83 38
Bullet identification - Effect of powder load and bullet material on an identification ...Summer 00 271
Bullet identification - Sawn off barrel ...Summer 00 294
Bullet jacket obstructing chamber ...Fall 00 359
Bullet jackets made from .22 LR caliber cartridge cases ...Summer 00 290
Bullet manufacturing - Federal Cartridge Co. Tour report ...Summer 02 316
Bullet proof vests - See **Body Armor**
Bullet puller dangers ...Apr 81 14
Bullet puller for .22s ...Apr 87 172
Bullet recovery - Anti-splash lid for water traps ...Jan 88 72
Bullet recovery - Bullet hole probe techniques ...Jan 96 57
Bullet recovery - Bullet trap - Forensic Buddy ...Fall 01 359
Bullet recovery - Bullet trap (for recovering cases only) ...Jun 78 92
Bullet recovery - Cotton box with kevlar ...Oct 94 286
Bullet recovery - Dip pak shavings ...NLR 17 17
Bullet recovery - Expansion prevention using epoxy ...Apr 85 79
Bullet recovery - Horizontal tank ...Apr 79 48
Bullet recovery - Horizontal water tank ...Mar 77 32
Bullet recovery - Ice ...Jul 76 82
Bullet recovery - Mini water trap for air gun pellets ...Jan 95 71
Bullet recovery - Non-Newtonian fluids ...Jul 82 43
Bullet recovery - Overview ...Apr 84 75
Bullet recovery - Paper baffle system for high velocity bullets ...Spring 98 280
Bullet recovery - Portable device ...Jan 91 522
Bullet recovery - Portable water tank ...Jan 80 42
Bullet recovery - Portable, light weight bullet trap for laboratory and field use ...Winter 98 117
Bullet recovery - Small water trap ...Mar 75 55
Bullet recovery - Snail trap ...Jan 92 82
Bullet recovery - Spa Vacuum (manual) for water tank bullet recovery and tank cleaning ...Fall 01 353
Bullet recovery - Tool from PVC pipe ...Jul 96 191
Bullet recovery - Unusual method ...Oct 83 27
Bullet recovery - Water tank ...Apr 88 168
Bullet recovery - Water tank ...Dec 73 12
Bullet recovery - Water tank ...Feb 74 24
Bullet recovery - Water tank ...Jun 78 90
Bullet recovery - Water tank ...NLR 13 18
Bullet recovery - Water tank, Atlanta ...Jan 96 1
Bullet recovery - Water tank, horizontal ...Jul 84 106
Bullet recovery - Water tank, sandbags ...Oct 82 12
Bullet recovery - Wet cotton ...Feb 73 9
Bullet recovery - Wet cotton ...NLR 16 17
Bullet recovery - Wet cotton, portable ...Aug 72 25
Bullet striations, surface topology - Scientific methods, advances in - Firearms Report - Speaking Paper 1998 - 2001 ...Fall 2002 362
Bullet weight - Jacket and core weights (separately) ...Spring 02 161
Bulletproof - See IBIS
Bullets - 5.56 x 45mm SS109/M855, design, exterior and terminal ballistic performance ...Winter 01 20
Bullets - Accelerator ...Apr 84 111
Bullets - Armor piercing ...Apr 84 110
Bullets - Armor piercing ...Jan 85 34
Bullets - Armor piercing ...Oct 90 395
Bullets - Armor piercing core? ...Jul 75 98
Bullets - Balloting, Exterior and wound ballistics & physical characteristics ...Fall 2002 375
Bullets - Base deformation as an index of impact velocity for full metal jacketed rifle bullets ...Winter 01 11
Bullets - BB in nose of .45 ACP bullets ...Jul 96 179
Bullets - Body tissue removal ...Apr 94 102
Bullets - Brass finished rimfire bullets ...Sep 78 22
Bullets - Broomstick ...NLR 9 22
Bullets - Bullet lodged in barrel ...Dec 76 68
Bullets - C77, design, exterior and terminal ballistic performance ...Winter 01 20
Bullets - Caliber determined from x-ray ...Apr 89 140
Bullets - Cast in 3 part mold ...NLR 10 25

Bullets - Chemical aspects ...Oct 90 364
Bullets - Class characteristics of knurled Hornady bullets ...Apr 90 154
Bullets - Cleaning ...Apr 90 129
Bullets - Cleaning ...Jan 95 58
Bullets - Cleaning encapsulating tissue ...Apr 90 167
Bullets - Cleaning with Jeweluster Coin cleaner ...Oct 95 315
Bullets - Color test of bullet residue inside bore ...Jan 80 60
Bullets - Composition ...Jan 95 77
Bullets - Configuration, changing of 303 British ...Jul 91 816
Bullets - Core weights ...Winter 98 125
Bullets - Effect of angle of hollow point bullets fired into gelatin ...Jul 94 193
Bullets - Expanded base ...Jun 73 5
Bullets - Expanded base ...NLR 3 30
Bullets - Expansion (ballistics gelatin testing) ...Oct 91 943
Bullets - Exploding ...Apr 84 105
Bullets - Exploding ...Feb 73 12
Bullets - Exploding, homemade ...Jan 92 16
Bullets - Federal Cartridge Co. Tour report ...Summer 02 316
Bullets - Ferromagnetic and magnetic resonance imaging ...Oct 89 595
Bullets - Flobert, 9mm ...Fall 2002 396 with peer comments Spring 2003 145
Bullets - Frangible - Scientific methods, advances in - Firearms Report - Speaking Paper 1998 - 2001 ...Fall 2002 362
Bullets - Frangible ...Apr 84 106
Bullets - Frangible ...Spring 98 340
Bullets - Frangible bullet, Green bullet, U. S. Military ...Fall 99 493
Bullets - Gilding metal coating methods ...Mar 76 85
Bullets - Impression of zipper on bullet nose ...Jul 94 199
Bullets - Inverted by factory in case ...Apr 88 191
Bullets - Iron (Frangible) ...Jul 80 36
Bullets - Jacket bending to facilitate comparison ...Apr 93 149
Bullets - L2A2, design, exterior and terminal ballistic performance ...Winter 01 20
Bullets - Lead bullet and core hardness ...Jan 95 77
Bullets - Lead stripping ...Jan 88 53
Bullets - Lubricants, Analytical method for analysis and comparison ...Spring 00 143
Bullets - M855, design, exterior and terminal ballistic performance ...Winter 01 20
Bullets - Machined marks - Class characteristics ...Jun 73 13
Bullets - MagSafe ammunition, Jacketed shot projectile specifications ...Fall 99 461
Bullets - Measuring deformed bullets ...Summer 98 428
Bullets - Meplat size and holes in tires ...Oct 89 629
Bullets - Notes on mushroomed bullets ...Jul 76 107
Bullets - Nylon core - practice ammunition (East German) ...Jan 95 22
Bullets - Obstructed barrel tests using 25 caliber pistols ...Winter 01 58
Bullets - Overview ...Jul 82 50
Bullets - Penetration (Ballistic gelatin testing) ...Oct 91 943
Bullets - Performance - 380 ACP, 9mm, 45 ACP, 357 Magnum ...Oct 91 943
Bullets - Polymer tipped ...Spring 97 165
Bullets - Practice ammunition (East German) ...Jan 95 22
Bullets - Protuberance on Remington .380 Auto pistol bullet ...Jul 96 173
Bullets - Recovered from trees ...Jun 78 19
Bullets - Remington bullets with letters on bases ...Jul 75 85
Bullets - Remington Golden Saber ...Apr 94 126
Bullets - Rubber - Safegom - Revolver ...Summer 02 320
Bullets - Salvo Squeezebore ...Dec 73 33
Bullets - Screw and shot included - See **Ultra Shock**
Bullets - Silvertips ...Apr 85 26
Bullets - Simunition QCT ammunition is not non-lethal ...Spring 98 321
Bullets - Spherical projectiles, forensic aspects ...Winter 98 102
Bullets - Standard Bullets and Casings of NIST ...Fall 00 368
Bullets - Standard Bullets and Casings of NIST ...Fall 00 368
Bullets - Strike flash ...Jul 88 294
Bullets - Striking firearm ...Apr 80 17
Bullets - Teflon coated, Grand Slam cartridge ...Apr 91 679
Bullets - Trace evidence ...NLR 13 16

Bullets - Trace evidence on fired bullets ...Apr 89 142
Bullets - Transverse lines on bearing surface ...Apr 94 139
Bullets - Unknown bullet with zigzag serrations ...Jan 89 87
Bullets - Unusual - Phono needles ...Oct 72 21
Bullets - Unusual Remington with convex base ...Spring 97 174
Bullets - X on bullet base ...Mar 77 28
Bullets - X-rays and bullet sizes ...Apr 85 44
Bullets - Zinc, cast, Zee bullets ...Spring 01 149
Bullets, coated ...Spring 02 202
Bullets, marked before firing ...Oct 92 354
Bullets, sound of ...Summer 02 255
Bunter marks on Consecutively made cartridge cases ...Fall 2002 407
Bunter marks, what do they mean? ...Winter 97 33
Bunter toolmarks ...Spring 98 334
Bunters - Consecutively manufactured by EDM ...Winter 00 49
Bunters - Headstamps examined from a production run ...Spring 00 164
Bunters - Information from major ammunition makers ...Winter 00 56
Bunters - Manufacturing by Electrical discharge machining ...Winter 00 16
Bunters - See also Headstamps
Bureau of Alcohol, Tobacco and Firearms - See **ATF**
Burgo ...NLR 1 10
Buried bullet striae ...Apr 88 163
Butler Associates - Replica Derringer altered to firing condition ...Jan 89 37
Button rifling - Consecutive manufacture ...Apr 89 370
Button rifling - Consecutive manufacture ...Jul 81 84
Buyback program for guns ...Oct 92 358
Bylaws, AFTE ...Fall 01 375
Bylaws, AFTE ...Oct 88 492
C77 - See **Bullets - 5.56 x 45mm**
Cable - Toolmarks on cut telephone cable ...Apr 89 221
Cable ties - Manufacturing marks ...Jul 94 187
Calcium - Reaction to Sodium Rhodizonate test ...Apr 90 149
Caliber designations - .380 Auto and .380 Revolver cartridges ...Winter 99 43
Caliber designations ...Apr 82 82
Caliber determination by weights of bullet cores and jackets ...Spring 02 161
Caliber determination, possible pitfalls ...Summer 99 363
Caliber determinations from x-rays - See **X-ray**
Calibers - .223 Rem. vs. 5.56 x 45mm - What's the difference? ...Jan 94 50
Calibers - 30-06 vs. 303 British ...Oct 93 318
Calico - Model M-100/M-100P slam firing ...Summer 98 527
Calico - Model M-950 9mm pistol automatic conversion ...Summer 97 313
Calico - See also American Industries
California Department of Justice Training Syllabus - See **Training**
Caltrop ...Jan 95 67
Camera identified ...Apr 89 227
Camera identified ...Jul 79 35
Camera modified into stun gun ...Winter 97 16
Can opener toolmarks ...Oct 81 78
Cannabis plant stalk with toolmarks ...Fall 2002 403
Cannelure impressions ...Oct 91 970
Cannelure toolmark identified ...Spring 97 179
Cap gun, conversion to firearm ...Apr 83 76
Carry-over - See **Manufacturing marks** or **Consecutive manufacture**
Cars - See **Automobile**
Cartridge - Glaser Safety Slug - Identification of ...Winter 03 79
Cartridge alteration - .38 Special cartridges cut to .38 S&W length ...Spring 02 183
Cartridge case comparison - .30-06 fired in .410 ga ...Jan 82 41
Cartridge case comparison - .32 fired in a .380 ...Jul 89 513
Cartridge case comparison - .380 Auto class characteristics ...Apr 96 82
Cartridge case comparison - 8000 German police firearms test fired and compared ...Jan 95 27
Cartridge case comparison - Aging ...Jan 86 46

Cartridge case comparison - All plastic shotshells ...Oct 89 635
Cartridge case comparison - Anvil bounce ...Oct 95 318
Cartridge case comparison - Anvil marks in centerfire cases ...Oct 92 367
Cartridge case comparison - Anvil marks on 22 long rifle ...Oct 91 997
Cartridge case comparison - Apparent differences in class chars. ...Oct 81 104
Cartridge case comparison - Arcs on breechfaces ...Jul 95 213
Cartridge case comparison - Barrel extension lug marks from M-16 assault rifles ...Spring 97 210
Cartridge case comparison - Bauer .25 Auto with unrifled barrel ...Summer 97 365
Cartridge case comparison - Beretta - Model 3032 Tomcat, mark from magazine weld ...Winter 03 71
Cartridge case comparison - Breechface fouling obscures marks ...Mar 77 21
Cartridge case comparison - Breechface identifications incorrectly based on "Family characteristics" ...Apr 96 95
Cartridge case comparison - Breechface impressions or manufacturing marks? ...Jul 94 206
Cartridge case comparison - Breechface marks from the Beretta, Tomcat model 3032 ...Spring 01 142
Cartridge case comparison - Breechface marks on a damaged S&W Sigma ...Spring 99 131
Cartridge case comparison - Bunter marks ...Winter 97 33
Cartridge case comparison - Bunter toolmarks ...Spring 98 334
Cartridge case comparison - Cannelure impressions inside the case ...Oct 91 970
Cartridge case comparison - Case in revolver not fired by it ...Oct 88 462
Cartridge case comparison - Case mouth marks ...Winter 99 29
Cartridge case comparison - Case striae replication ...Oct 81 59
Cartridge case comparison - Cat's ears on firing pin impressions ...Winter 00 42
Cartridge case comparison - Centerfire ammunition fired in shotgun ...Winter 97 24
Cartridge case comparison - Chamber flutes ...Apr 93 108
Cartridge case comparison - Chamber marks ...Mar 75 44
Cartridge case comparison - Chamber marks ...Mar 76 25
Cartridge case comparison - Chamber marks ...Fall 97 401
Cartridge case comparison - Chamber marks from deformed chambers ...Jul 89 522
Cartridge case comparison - Chamber marks in revolvers ...Sep 78 36
Cartridge case comparison - Chambers, fluted, annular-ringed and perforated ...Fall 00 342
Cartridge case comparison - Chemical aspects ...Oct 90 364
Cartridge case comparison - Class characteristic similarities (Browning/Beretta) ...Jul 96 150
Cartridge case comparison - Classifying breechface marks for an Open-Case-File Search System ...Spring 00 176
Cartridge case comparison - Cleaning cases ...Jan 95 58
Cartridge case comparison - Comparison SEM ...Apr 83 47
Cartridge case comparison - Comparison SEM ...Jul 83 141
Cartridge case comparison - Concave firing pin aperture on Taurus Model PT92AFS ...Fall 01 334
Cartridge case comparison - Consecutively fired cases ...Apr 89 331
Cartridge case comparison - Consecutively fired cases ...Jul 83 109
Cartridge case comparison - Consecutively fired cases ...Jul 83 113
Cartridge case comparison - Consecutively fired cases ...Jul 83 127
Cartridge case comparison - Consecutively made ...Fall 2002 407
Cartridge case comparison - Consecutively manufactured Ruger P-89 slides ...Spring 2003 157
Cartridge case comparison - Crosshatched breechface marks (shotshell), mirror image ...Jul 95 200
Cartridge case comparison - Davis Derringer breechface marks ...Summer 97 310
Cartridge case comparison - Depressed, half-moon breechface marks ...Jul 96 177
Cartridge case comparison - Determination of firing sequence by case marks ...Jul 95 237
Cartridge case comparison - Dimensions, wall thickness, CCI Blazer ...Oct 91 961
Cartridge case comparison - Dots left by AMT Automag II ...Apr 90 163
Cartridge case comparison - Double firing pin strike, CZ, model 83 pistol ...Winter 99 36
Cartridge case comparison - Dry fire damage to firearm leaves marks ...Apr 92 162
Cartridge case comparison - Effects of cold gun bluing on individual characteristics on cartridge casings ...Oct 96 256
Cartridge case comparison - Ejector marks (case study) ...Fall 97 401
Cartridge case comparison - Electronic imaging, recording, comparison ...Oct 91 990
Cartridge case comparison - End milling produces striations that can be mistaken for individual characteristics ...Winter 00 19
Cartridge case comparison - Extended firing of Galil rifle ...Jan 92 37
Cartridge case comparison - Fabric impressions from holders ...Apr 92 160
Cartridge case comparison - Federal ammunition manufacturing marks, Hydra-Shok, .40 S&W ...Winter 97 21
Cartridge case comparison - Firing pin aperture, concave on Taurus Model PT92AFS ...Fall 01 334
Cartridge case comparison - Firing pin depths ...Jul 81 79
Cartridge case comparison - Firing pin depths ...Oct 89 584
Cartridge case comparison - Firing pin depths ...Oct 89 590

Cartridge case comparison - Firing pin exam techniques using comparison microscope ...Fall 97 470
Cartridge case comparison - Firing pin marks variable ...Apr 94 157
Cartridge case comparison - Firing pin or ejector? ...Oct 81 106
Cartridge case comparison - Firing pin, after-market ...Spring 97 175
Cartridge case comparison - Fish scales breechface marks ...Fall 97 494
Cartridge case comparison - Forcing cone marks on shotshell ...Apr 81 31
Cartridge case comparison - Frequency of identifiability ...Oct 88 376
Cartridge case comparison - Fry's reagent used on cases to enhance identification ...Spring 97 197
Cartridge case comparison - IBIS - Positioning cartridge cases and correlation scores ...Fall 00 337
Cartridge case comparison - IBIS and the 5.56 NATO cartridge case fired from an M-16 ...Spring 2003 190
Cartridge case comparison - Individuality ...Apr 82 78
Cartridge case comparison - Ingram-type pistols ...Jul 90 330
Cartridge case comparison - Intentional marks on breech and pin ...Jun 78 21
Cartridge case comparison - Interchangeable parts for Infinity Firearms ...Spring 02 205
Cartridge case comparison - Lorcin pistol breechface patterns & manufacturing ...Spring 99 134
Cartridge case comparison - Magazine marks, numerical criteria and subclass marks ...Fall 00 326
Cartridge case comparison - Manufacturing marks on 9x18 Makarov primers ...Jul 96 164
Cartridge case comparison - Marks id'd with high speed photog. ...Apr 89 313
Cartridge case comparison - Matching bullet to cartridge case ...Oct 81 79
Cartridge case comparison - Matching bullet to cartridge case ...Spring 98 318
Cartridge case comparison - Metal chip in chamber leaves identifiable marks ...Spring 02 172
Cartridge case comparison - Mock testimony ...Summer 00 231
Cartridge case comparison - Numerical criteria for identification in casework involving magazine and land impressions ...Winter 01 41
Cartridge case comparison - One striker: different impressions, Hi-Standard derringer ...Jan 95 38
Cartridge case comparison - Overview of Manufacturing marks on Center Fire Cartridges ...Spring 01 112
Cartridge case comparison - Polishing material found on bullets, cases ...Jul 92 244
Cartridge case comparison - Primer indentations on unfired cartridges ...Jan 95 61
Cartridge case comparison - Primer movement ...Jan 89 45
Cartridge case comparison - Primers, Flowback (bulge) not always due to high pressure ...Jan 95 1
Cartridge case comparison - Primers, Flowback (bulge) not always due to high pressure ...Jan 95 40
Cartridge case comparison - Rotating firing pin ...Apr 81 18
Cartridge case comparison - Rotating firing pins and casting for identification ...Winter 97 59
Cartridge case comparison - Scanning electron microscope applicability ...Jul 92 294
Cartridge case comparison - Second firing pin impressions ...Winter 00 42
Cartridge case comparison - Shotgun anvil impressions ...Winter 99 9
Cartridge case comparison - Shotshell fired without shot? ...Jun 78 24
Cartridge case comparison - Shotshells, plastic, marked by firearm ...Oct 92 366
Cartridge case comparison - Sig-Sauer - 226, parts changes ...Apr 96 97
Cartridge case comparison - Spiral flutes in chamber ...Jan 92 61
Cartridge case comparison - Stirling, Model 14 rifles, general and cartridge case comparison ...Spring 2003 245
Cartridge case comparison - Sunburst pattern (Grendel P12) ...Jul 95 202
Cartridge case comparison - Taurus - Model PT92AFS with concave firing pin aperture ...Fall 01 334
Cartridge case comparison - Unsolved case file using photos of knowns and unknowns ...Jul 94 214
Cartridge case comparison - Validity study for forensic examination ...Spring 2003 210
Cartridge case comparison - Wall thickness ...Oct 91 960
Cartridge case ejection patterns ...Spring 98 300
Cartridge case ejection patterns of .25 Auto pistols held sideways (horizontally) ...Fall 98 644
Cartridge case ejection reconstruction ...Jan 93 15
Cartridge case manufacturing - Federal Cartridge Co. Tour report ...Summer 02 316
Cartridge cases (.22 LR caliber) used as bullet jackets ...Summer 00 290
Cartridge casing with rifling (.32 ACP fired in a .380 ACP barrel) ...Winter 02 50
Cartridge casing with rifling (.32 ACP fired in a .380 ACP barrel) ...Summer 01 258
Cartridge casings - Time since discharge, Firearms Report Review Paper - 1998-2001 ...Fall 2002 409
Cartridge comparison - FireBall Firearm Identification System (computerized images) ...Summer 00 285
Cartridge comparison - Manufacturing marks on primers of Fiocchi, 9mm Luger FMJ 115 gn. Leadless ...Summer 00 300
Cartridge comparison - Manufacturing marks which may lead to false conclusions ...Summer 00 292
Cartridge interchangeability - .223 in AK-47 ...Apr 83 12
Cartridge interchangeability - .256 Win. Mag in .38 Spl. ...Apr 90 200
Cartridge interchangeability - .280 Rem./7mm Express Rem ...Jul 83 12
Cartridge interchangeability - .30 Luger in 9mm Luger ...NLR 7 31
Cartridge interchangeability - .32 ACP in a .380 ACP (cartridge in barrel, rifling marks on casing) ...Winter 02 50

Cartridge interchangeability - .32 ACP in a .380 ACP (cartridge in barrel, rifling marks on casing) ...Summer 01 258
Cartridge interchangeability - .32 caliber cartridges ...Fall 99 478
Cartridge interchangeability - .32 fired in a .380 ...Jul 89 513
Cartridge interchangeability - .32 S&W Short fired in .32 Auto ...Jul 80 68
Cartridge interchangeability - .38 in .41 ...Jul 77 192
Cartridge interchangeability - .38 Special cartridges cut to .38 S&W length ...Spring 02 183
Cartridge interchangeability - .38 Special Titan Tiger chambers .357 Mag. ammo ...Oct 95 316
Cartridge interchangeability - .38 Super fired in a revolver ...Jul 91 869
Cartridge interchangeability - .380 & 9mm ...Jul 93 168
Cartridge interchangeability - .380 ACP bullets fired in a 9mm, identification of ...Fall 97 463
Cartridge interchangeability - .380 Auto in Makarov 9x18mm ...Oct 94 276
Cartridge interchangeability - .380 in .357 Magnum revolver ...Jan 80 33
Cartridge interchangeability - .380 in 9mm Luger ...Apr 85 75
Cartridge interchangeability - .40 S&W and 9mm (Glock pistols) ...Apr 92 172
Cartridge interchangeability - .410 in .455 - Chamber rupture ...Jun 78 65
Cartridge interchangeability - .410s in .455 revolvers ...Mar 78 19
Cartridge interchangeability - 9mm (Star, Mod. B) loaded with .38 Super, discharges when dropped ...Summer 98 514
Cartridge interchangeability - 9mm Steyr to 9mm Luger ...Jul 87 262
Cartridge interchangeability - Balloting bullets: Exterior & wound ballistics, physical characteristics, & cartridge cases ...Fall 2002 375
Cartridge interchangeability - Caliber conversions with reloading tools ...Jul 93 209
Cartridge interchangeability - Case study, .32 caliber family ...Spring 99 149
Cartridge interchangeability - General ...NLR 12 12
Cartridge interchangeability - Handgun bullets in rifle cases ...Jul 87 324
Cartridge interchangeability - Multiple caliber revolver, Phillips & Rodgers Medusa ...Apr 95 103
Cartridge interchangeability - Norinco pistol in .38 Super fires 9mm Luger, 9mm Makarov, .380 ACP, 7.62x25mm ...Summer 00 299
Cartridge interchangeability - Overview ...Jul 82 66
Cartridge interchangeability - Overview ...Jul 84 175
Cartridge interchangeability - See also Conversion Kits
Cartridge interchangeability - Taped cartridges ...Mar 75 31
Cartridge interchangeability - Unsafe combinations ...Oct 90 420
Cartridge manufacturing - Federal Cartridge Co. Tour report ...Summer 02 316
Cartridges - .22 LR caliber, new and unusual ...Summer 00 296
Cartridges - .22 Winchester Automatic again available ...Summer 00 296
Cartridges - .223 Rem. vs. 5.56 x 45mm - What's the difference? ...Jan 94 50
Cartridges - .32 caliber interchangeability ...Fall 99 478
Cartridges - .38 Auto or .38 Super? ...Jul 82 9
Cartridges - .38 Special cartridges cut to .38 S&W length ...Spring 02 183
Cartridges - +P ...Apr 74 10
Cartridges - +P ...Apr 74 14
Cartridges - +P History ...Jul 77 211
Cartridges - +P+ ammunition evaluation ...Oct 82 36
Cartridges - 10mm ...Jan 82 35
Cartridges - 30-06 vs. 303 British ...Oct 93 318
Cartridges - 5.45x39mm (M74) ...Summer 98 531
Cartridges - 5.56mm Russian ammunition ...Fall 99 490
Cartridges - 7.62 x 39mm cartridge headstamps ...Winter 98 124
Cartridges - 7.62x39mm ...Oct 89 629
Cartridges - 7.62x39mm Soviet Intermediate Cartridge
Cartridges - 9mm Flobert ...Fall 98 661
Cartridges - 9x18mm Makarov ...Jan 90 38
Cartridges - Ammunition update ...Spring 2003 242
Cartridges - Blanks converted to hold rivets ...Jul 77 172
Cartridges - Bullet characteristics differ in same box of ammo ...Jul 87 315
Cartridges - Bullet extends past crimp causing malfunction ...Jan 96 45
Cartridges - C.C.I. Blazer shotshell ...Oct 91 960
Cartridges - Caliber conversions with reloading tools ...Jul 93 209
Cartridges - Caseless ...Apr 82 39
Cartridges - Caseless ...Jul 84 61
Cartridges - Cases, overview ...Jul 82 59
Cartridges - Center fire ...Jul 82 48
Cartridges - Color codes ...Apr 74 27

Cartridges - Color codes on military ammunition ...Jul 77 52
Cartridges - Color coding ...Aug 74 15
Cartridges - Components and manufacture ...Jul 82 47
Cartridges - Dates of origin ...Jul 93 157
Cartridges - Delay .38 Special ...Feb 74 5
Cartridges - Drop-fired ...Fall 00 352
Cartridges - Evaluation of police ammunition ...Feb 74 11
Cartridges - External ballistics of 9mm Parabellum cartridges ...Summer 97 330
Cartridges - Federal Cartridge Co. Tour report ...Summer 02 316
Cartridges - Grand Slam ...Apr 91 679
Cartridges - Hazardous ammunition, "HP" on headstamp ...Spring 97 173
Cartridges - Ignition, mortar ...NLR 20 20
Cartridges - Jacketed shot projectile specifications (by MagSafe) ...Fall 99 461
Cartridges - Japanese ammunition ...Jul 76 19
Cartridges - MagSafe ammunition, Jacketed shot projectile specifications ...Fall 99 461
Cartridges - Manufacture ...Jul 84 181
Cartridges - Military .38 Special improved ...Mar 75 21
Cartridges - Names ...Apr 79 71
Cartridges - Overview ...Jul 84 149
Cartridges - Overview ...Oct 81 131
Cartridges - Overview of Manufacturing marks on Center Fire Cartridges ...Spring 01 112
Cartridges - Plastic cased (USAC) ...Apr 88 169
Cartridges - Plastic cased blanks ...Dec 75 64
Cartridges - Practice ammunition (East German) ...Jan 95 22
Cartridges - Quiet Thunderstorm, Russian silenced pistol ammunition ...Summer 97 375
Cartridges - Remington - Multiball load cartridge ...Jan 95 74
Cartridges - Rim fire ...Jul 82 47
Cartridges - Russian 5.56mm ammunition ...Fall 99 490
Cartridges - Safety ...Jul 84 190
Cartridges - See also Shotshells & components
Cartridges - Shipping procedures ...Jan 83 121
Cartridges - Shotshell, C.C.I. Blazer ...Oct 91 960
Cartridges - Solid Training Round (STR), solid brass training cartridges ...Winter 00 45
Cartridges - Special purpose ...NLR 20 38
Cartridges - Standard ammunition for gunshot residue testing ...Fall 00 332
Cartridges - Surplus ammunition **Safety warning** ...Jan 93 12
Cartridges - Swedish Training Cartridge - Plastic bullet with a steel BB ...Spring 02 206
Cartridges - Thermal effects ...Jan 82 68
Cascade Cartridge International - Ci headstamp ...Apr 79 87
Case analysis ...Oct 86 91
Case head separation on a .357 SIG cartridge case ...Winter 99 27
Case law - Admissibility of evidence of experiments ...Apr 89 249
Case law - Admissibility of evidence of experiments ...Jul 80 51
Case law - Bullet caliber determination admissible ...Jul 80 85
Case law - Daubert criteria and Firearm/Toolmark examination ...Winter 03 38
Case law - Firearms identification ...Apr 81 78
Case law - Firearms identification ...Apr 89 280
Case law - Hadley vs. Arizona ...Dec 73 5
Case law - Historical ...Oct 84 35
Case law - Joseph Ramirez vs. Florida - Daubert criteria ...Summer 02 289
Case law - Joseph Ramirez vs. State of Florida, Supreme Court Decision (Daubert) ...Spring 02 215
Case law - Knife toolmarks ...Oct 93 266
Case law - Maryland vs. RG ...Apr 86 77
Case law - Miscellaneous ...Apr 83 21
Case law - Miscellaneous ...Apr 89 363
Case law - Miscellaneous ...Jan 83 7
Case law - Miscellaneous ...Jan 84 11
Case law - Miscellaneous ...Jan 85 6
Case law - Miscellaneous ...Jan 87 31
Case law - Miscellaneous ...Jul 84 27
Case law - Miscellaneous ...Oct 83 30

Case law - Overview ...Oct 82 126
Case law - Peer review, in-depth discussion ...Spring 00 132
Case law - Ramirez vs. Florida - Daubert criteria ...Summer 02 289
Case law - Ramirez vs. State of Florida, Supreme Court Decision (Daubert) ...Spring 02 215
Case law - Shotgun similar but not identical admissible ...Jul 80 86
Case law - Toolmarks ...Oct 93 266
Case notes - See **Worksheets**
Caseless ammunition - See **Cartridges**
Casing identification - Ejection port marks: A Signature of Beretta ...Summer 01 251
Casing with rifling (.32 ACP fired in a .380 ACP barrel) ...Summer 01 258
Casing with rifling (.32 ACP fired in a .380 ACP barrel) ...Winter 02 50
Cast bullets - Weight variability of fired and unfired ...Jul 81 31
Casting materials & techniques - Aid to identification ...Oct 83 24
Casting materials & techniques - Aid to identification ...Oct 83 53
Casting materials & techniques - Barrel casting for bullet comparison ...Spring 97 215
Casting materials & techniques - Barrel casting with a syringe and Mikrosil ...Oct 94 301
Casting materials & techniques - Barrel interior ...Apr 83 88
Casting materials & techniques - Cerro-alloy ...NLR 13 30
Casting materials & techniques - Coe flex ...Apr 83 87
Casting materials & techniques - Coe flex ...Mar 77 14
Casting materials & techniques - Coloring ...Jul 81 112
Casting materials & techniques - Dip-Pak thermo-plastic ...Oct 94 307
Casting materials & techniques - Hatchet marks in human skull bone ...Spring 98 349
Casting materials & techniques - Identifying castings ...Apr 93 130
Casting materials & techniques - Metal alloys ...Apr 85 59
Casting materials & techniques - Mikrosil ...Apr 83 79
Casting materials & techniques - Mikrosil ...Apr 83 80
Casting materials & techniques - Mikrosil ...Jul 87 328
Casting materials & techniques - Mikrosil casts for comparison ...Jul 94 181
Casting materials & techniques - Overview ...Apr 84 62
Casting materials & techniques - Plywood casts
Casting materials & techniques - Problems and alternatives ...Jul 77 175
Casting materials & techniques - Rotating firing pins ...Winter 97 59
Casting materials & techniques - Silicon replicas of bullets and casings ...Jan 96 41
Casting materials & techniques - Silicon rubber extrusion gun ...Spring 97 213
Casting materials & techniques - Silicone rubber ...NLR 7 22
Casting materials & techniques - Snowprint-Wax ...Apr 83 77
Casting materials & techniques - Theftingate ...Oct 88 463
Cat - See **Intratec**
Cathode ray tube with bullet holes - how to open it ...Oct 90 434
Cat's ears - See **Cartridge case comparison**
CBC - .38 Short CBC ammunition ...Apr 83 16
CBC - 7.62mm x 51mm cartridges - **Safety warning** ...Apr 92 198
CCI - .25 Auto Blazer hollow point bullets with thin jackets ...Jan 92 58
CCI - Blazer Ammunition ...Jan 82 7
CCI - Blazer ammunition not for rifles ...Jul 83 12
CCI - Blazer ammunition primers ...Jul 87 326
CCI - Cartridge board ...Apr 85 56
CCI - Case head separation on a .357 SIG cartridge case ...Winter 99 27
CCI - Clean-Fire primers with manufacturing marks ...Spring 2003 250
CCI - Coated bullets, Idaho Territory bullets ...Spring 02 202
CCI - Lead-free cartridges ...Apr 95 142
CCI - Maxi-Mag .22WMR - Sprial GSR patterns ...Jul 95 247
CCI - See also Omark
CCI - Shotgun primer #209 ...Apr 82 4
CCI - Shotshell, Blazer ...Oct 91 960
CCI - Stinger cases now nickel plated ...Summer 00 296
CDM - Brass finished rimfire bullets ...Sep 78 22
CDM - Derringer rifling characteristics (different for the two barrels) ...Spring 98 320
CDM - Derringer with different rifling in barrels ...Mar 76 18
CDM - Pistol ...Jul 76 21

Ceiner, Jonathon Arthur, Inc. - Silencers ...Spring 01 103
Cellini Stabilizer ...Jan 91 34
Centennial Arms Corp. - Cartridges offered ...Jun 74 16
Centerfire ammunition fired in a shotgun ...Winter 97 24
Central Kentucky Arms - AR-10 parts .308 ...Oct 83 40
Centurion Ordnance Inc. - See **Aguila**
Century - .45-70 revolver ...Apr 83 19
Century Arms Inc. - Squibman .22 cartridges ...NLR 13 29
Certification - AFTE - Certification Program ...Winter 03 126
Certification - American Board of Criminalistics 1994 Survey results ...Apr 95 164
Certification - Development of Certification Examinations for Practicing Firearm and Toolmark Examiners, Summary Report ...Fall 00 373
Certification - Feasibility study summary ...Jan 92 84
Certification - See also AFTE
Certification - Status report ...Jul 79 70
Certification ...Jul 75 21
Certification ...Jul 80 12
Certification ...Jul 80 9
Certification, AFTE ...Fall 2002 442
Certification, AFTE ...Summer 02 336
Ceska Zbrojovka - See **Czechoslovakia**
Chamber inserts - See **Conversion Kits**
Chamber marks - Shotgun, 20ga., leaves unique marks on shotshells ...Spring 98 360
Chamber marks - spiral flutes ...Jan 92 61
Chamber marks (fire forming) on rimfire cases ...Jul 87 282
Chamber marks from revolver on bullets ...Jul 81 62
Chamber marks on bullet from Lorcin L25 ...Jan 92 17
Chamber marks on bullets ...Apr 79 42
Chambers, fluted, annular-ringed and perforated ...Fall 00 342
Characteristics - Nomenclature of ...Apr 89 367
Charles Daly shotshell wad ...Apr 88 202
Charter Arms - .38 Spl. revolver, failure to function due to faulty action and ammunition ...Jan 96 45
Charter Arms - Class characteristics ...NLR 7 20
Charter Arms - Model AR7 - With silencer ...Oct 94 299
Charter Arms - Model AR-7 and Explorer II Silencers ...Oct 82 46
Charter Arms - Model AR-7 and Explorer II Silencers ...Oct 83 51
Charter Arms - Model Pit Bull 9mm revolver ...Oct 88 456
Charter Arms - Numbering ...Jul 88 322
Chemical aspects of ammunition ...Oct 90 364
Chemical reactivity ...Jul 82 38
Chemical tests for gunshot residues - Worksheets ...Winter 97 61
Chemistry and firearms - Scientific methods, advances in - Firearms Report - Speaking Paper 1998 - 2001 ...Fall 2002 362
Chemistry in firearm examinations ...Oct 85 57
Chemography - Collection of GSR and chemographic testing of lead-free Sintox ammo ...Spring 2003 152
China - Air rifles ...Jan 83 118
China - Ammunition - 7.62x39mm ammunition and packaging ...Apr 90 170
China - Ammunition - Identified using SEM ...Apr 90 135
China - Ammunition - Spherical lead particles originate fm bullet ...Jan 91 535
China - Ammunition with striated primers ...Jan 95 5
China - Copy of Walther PPK ...Sep 78 41
China - Headstamps "LC" ...Jul 93 204
China - Markings on Astra pistol ...Mar 75 78
China - Model TU90 pistol ...Apr 94 121
China - Takarev copy ...Jan 94 37
China North Industries Corp. - See **Norinco**
Chisels - Consecutively manufactured ...Fall 2002 379
Choke™ Ammunition - 12 gauge 00 Buckshot loads, wounding effects ...Summer 02 287
Choke™ Ammunition - Shot spread reducing and shot spread eliminating shotgun wads ...Fall 00 361
Chronograph - Oehler Model 43 Personal Ballistics Laboratory System, Forensic Uses ...Winter 02 16
Chronograph shield ...Oct 92 371
Cigarette lighter gun - Electrically fired ...Apr 95 123

Cigarette lighters, automobile - Case ...Dec 76 30
CIL - Plastic insert in rifled slugs ...Jul 96 192
CIL (Canadian ammunition) - See also IVI
CIL (Canadian ammunition) - Sprial GSR patterns result from stab crimps ...Jul 95 247
Cincinnati Microwave brand radar detector hidden serial number ...Jan 87 19
Circle Diameter determined by measurement of chord ...Apr 88 149
Class characteristics - Aircraft struck by bullet, class characteristics of bullet on metal at exit hole ...Spring 99 163
Class characteristics - Autoloading pistols ...NLR 2 31
Class characteristics - Base marks ...NLR 6 7
Class characteristics - BEE Miller - Hi-Point pistol, Model C, 9L rifling characteristics ...Winter 00 46
Class characteristics - BEE Miller, Hi-Point Model 995, 9mm caliber carbine, atypical rifling ...Spring 00 166
Class characteristics - Bersa 380, Models 83 and 85, K-Max Inter. ...Jul 91 862
Class characteristics - Browning ...Oct 72 31
Class characteristics - Bullet wipe marks ...NLR 9 23
Class characteristics - Caliber determined from x-ray - See **X-ray**
Class characteristics - Chambers, fluted, annular-ringed and perforated ...Fall 00 342
Class characteristics - Comprehensive overview of the subject ...Jun 78 11 & Corrections to the article ...Sep 78 33
Class characteristics - Computer based system ...NLR 5 12
Class characteristics - Computer generated table for twist conversion ...Mar 77 51
Class characteristics - Computer numerical control (CNC) production tooling, chars. on Remington 870 breech bolts ...Winter 03 49
Class characteristics - Concave firing pin aperture on Taurus Model PT92AFS ...Fall 01 334
Class characteristics - Different rifling in derringer barrels ...Mar 76 18
Class characteristics - Different rifling in same barrel ...Jul 77 38
Class characteristics - Direction of twist ...NLR 6 2-13
Class characteristics - Firing pin aperture, concave on Taurus Model PT92AFS ...Fall 01 334
Class characteristics - Forehand and Wadsworth ...Dec 72 11
Class characteristics - From SKS or AK type rifle (7.62x39mm) ...Spring 02 144
Class characteristics - Groove measurements ...Jul 76 63
Class characteristics - HK4 ...Apr 73 19
Class characteristics - HK4 ...Oct 73 23
Class characteristics - Hopkins and Allen ...Dec 72 11
Class characteristics - Indian Sales ...Dec 73 29
Class characteristics - Individual characteristics criteria (overview) ...Spring 98 276
Class characteristics - Land and groove measurement ...NLR 4 29
Class characteristics - Land and groove tabulation ...Mar 76 15
Class characteristics - Lead bullet and core hardness ...Jan 95 77
Class characteristics - Machined marks on bullets ...Jun 73 13
Class characteristics - Mag-na-port marks on bullets ...Oct 91 903
Class characteristics - Make and Model determined by ...Oct 82 52
Class characteristics - Measurement techniques ...Jul 77 26
Class characteristics - Measuring rifling ...Dec 76 14
Class characteristics - Micrometer used for rifling measurements ...Mar 77 50
Class characteristics - Mock testimony ...Summer 00 231
Class characteristics - Nomograph for land and groove calculation ...Oct 81 67
Class characteristics - Overview ...Jan 84 89
Class characteristics - Phoenix Arms - HP22 ...Oct 95 314
Class characteristics - Polygonal barrel sub-family characteristics, identification of ...Spring 2003 197
Class characteristics - Polygonal rifling ...Apr 73 32
Class characteristics - Remington ...Aug 73 30
Class characteristics - Replica firearms ...NLR 6 8
Class characteristics - Rifling of firearms (from Chicago) ...Apr 79 89
Class characteristics - Ruger Security-Six with six left rifling ...Oct 91 1002
Class characteristics - Savage ...Oct 72 29
Class characteristics - Smith & Wesson - Model 5906 ejectors ...Fall 2002 406
Class characteristics - Smith & Wesson ...Oct 72 23
Class characteristics - Taurus - Model PT92AFS with concave firing pin aperture ...Fall 01 334
Class characteristics - Toolmarks ...Jun 78 59
Class characteristics - Twist measurement ...NLR 4 29
Class characteristics - Unrifled barrel ...Jul 77 154
Class characteristics - Unrifled barrel ...Jul 77 187
Class characteristics - Unrifled barrel ...Jun 78 27

Class characteristics - Variation in land and groove measurements ...Mar 77 22
Class characteristics - Wyoming Arms, Parker Semiautomatic Pistol ...Jul 91 859
Clean Shot powder (black powder substitute) - Physical and chemical properties and performance ...Fall 01 313
Clean-fire - Heavy metal-free primers for handloaders ...Fall 01 326
Cleaning a pistol ...Jan 93 40
Cleaning barrels - Mercury bath barrel restoration technique ...Jul 96 204
Cleaning bullets ...Apr 90 129
Cleaning bullets in encapsulating tissue ...Apr 90 167
Clear Shot powder (black powder substitute) - Physical and chemical properties and performance ...Fall 01 313
C-Lect-Choke class characteristics ...Oct 90 401
CLEP tests ...Jul 77 228
Clerke - 1st ...NLR 15 15
Climax M&S Mod. 22 SA revolver ...Oct 95 320
CLIS - Database release ...Jan 81 42
CLIS - Notice to users ...Jul 80 72
CLIS - Notice to users ...Oct 80 75
CLIS - On a personal computer ...Oct 90 431
CLIS - Solves homicide ...Oct 90 427
CMP - 45 pistol, full auto firing ...Oct 95 322
CMS - See **Consecutive matching striae** or **Criteria for identification**
CO2 guns - See **Air guns**
Coated bullets ...Spring 02 202
Coating techniques - Aluminum oxide ...NLR 9 20
Co-axial lighting, advantages in microscopic examination ...Fall 99 457
Cobray - Accidental discharge ...Jan 90 43
Cobray - Model D derringer, .45 Long Colt/.410 ...Apr 94 144
Cobray - See also SWD
Cobray - Semiautomatic pistol ...Jul 84 17
Code of Ethics - See **AFTE - Code of Ethics**
Codes, NCIC gun data ...Apr 92 179
Coin cleaner to clean bullets ...Oct 95 315
Cold gun blue - Effects on individual characteristics on cartridge casings ...Oct 96 256
Colibri - See **Aguila**
Collection of evidence - Associative evidence ...Apr 84 5
Collection of evidence - Associative evidence ...Apr 89 343
Collection of evidence - Bullet removed by prisoner ...Jul 83 27
Collection of evidence - Medical personnel ...Jan 85 69
Collection of evidence - See also Crime scenes
College degrees through CLEP tests ...Jul 77 228
Color coding cartridges - See **Cartridges - Color coding**
Colt - .380 hammerless with 12 lands and grooves ...Oct 79 22
Colt - Cartridge case class chars. can be similar to Beretta ...Jul 96 150
Colt - Changed serial number? ...Mar 76 86
Colt - Consecutively fired bullets and cases ...Apr 89 331
Colt - Consecutively fired bullets and cases ...Jul 83 127
Colt - Demonstration pistol .45 ACP ...Apr 85 51
Colt - Drop testing a 1911 ...Spring 97 183
Colt - Fire control variations (M-16, AR-15, Sporter, Match Target) ...Winter 03 12
Colt - IBIS and the 5.56 NATO cartridge case fired from an M-16 ...Spring 2003 190
Colt - Manufacturing facility, general info & serial numbers ...Fall 97 487
Colt - Model 1911 .455 Webley converted to .45 ACP ...Winter 97 66
Colt - Model 1911 modified to 9mm ...Oct 89 650
Colt - Model 1911 pistol with raised breechface edge ...Dec 76 28
Colt - Model 1911 Rare ...Oct 89 622
Colt - Model 1911A1 .30 Mauser conversion kit ...Jul 90 337
Colt - Model AR-15 - Fire control variations ...Winter 03 12
Colt - Model AR-15 .22 conversion kit ...Jul 90 334
Colt - Model AR-15 ...Fall 98 582
Colt - Model AR-15 automatic conversion ...Apr 85 18
Colt - Model AR-15 automatic conversion ...Jan 83 114
Colt - Model AR-15 automatic conversion ...Jun 78 46

Colt - Model AR-15, M-16 look alike ...Apr 85 81
Colt - Model CLR2064SRBL, .30-06 Springfield caliber, Light rifles - **Safety warning** ...Winter 02 61
Colt - Model Combat Delta 10 ...Jan 89 86
Colt - Model Custom Combat 10 ...Jan 89 86
Colt - Model Delta Elite ...Jan 89 86
Colt - Model El General pistol ...Jan 93 11
Colt - Model Gold Cup with no rifling ...Oct 92 352
Colt - Model Lawman with .013 groove widths ...Mar 76 10
Colt - Model M-16 - Fire control variations ...Winter 03 12
Colt - Model M-16 adoption by DEA ...Jan 82 57
Colt - Model M-16 design changes ...Jan 82 57
Colt - Model M-16 rifle, shortened ...Summer 02 307
Colt - Model M-16, Barrel extension lug marks on cartridge cases ...Spring 97 210
Colt - Model Match Target - Fire control variations ...Winter 03 12
Colt - Model Official Police revolver - Dangerous gunsmith techniques ...Jul 76 71
Colt - Model Peacemaker serial numbers/dates ...Jul 93 157
Colt - Model Positive Police copied by Belgium ...Jul 92 291
Colt - Model Sporter - Fire control variations ...Winter 03 12
Colt - Model Trooper MK III with right hand twist ...NLR 2 5
Colt - Model Trooper rifling change ...Jul 76 3
Colt - No name colt copy ...Jul 85 57
Colt - Pistol forgeries ...Jan 88 81
Colt - Revolvers ...Jul 88 269
Colt - Rifling change ...Oct 74 10
Colt - Serial number ranges ...NLR 14 18
Colt - Serial numbers ...NLR 19 40
Colt - Serial numbers identical on two revolvers ...Apr 88 190
Colt - Serial numbers on antiques ... NLR 15 18
Colt - Unrifled barrel ...Jul 77 187
Comet tailing (Speer - Lawman, 9mm, 147 grain) ...Fall 01 336
Companish S. Braziliera de Cartuchos - Sears stock numbers ...Jun 78 54
Compareteur Differentiel Deschenes-Desrochers Pro+ 2.1(macro comparisons w/ transparency film) ...Summer 99 367
Comparison microscope photography ...Jan 94 11
Comparison microscopes - See also Microscopes & Techniques
Compensator - Muzzle attachments for firearms ...Winter 99 22
Compensator - See also Muzzle brake
Compensator - See also Ported
Component Metal Products - See **CMP**
Comprehensive validity study for the forensic examination of cartridge cases ...Spring 2003 201
Computer monitor with bullet holes - How to open it ...Oct 90 434
Computer numerical control (CNC) production tooling & repeatable characteristics on Remington Model 870 breech bolts ...Winter 03 49
Computers & computer assistance - ATF reference firearms collection ...Jan 95 15
Computers & computer assistance - Automated bullet comparisons ...Jul 93 172
Computers & computer assistance - Automated comparisons of bullet striations based on 3D topography, Firearms Report Review Paper - 1998-2001 ...Fall 2002 409
Computers & computer assistance - Automated Firearms Id System ...Oct 80 11
Computers & computer assistance - Automated systems of ballistic identification, Firearms Report Review Paper - 1998-2001 ...Fall 2002 409
Computers & computer assistance - Baltec I ballistics program ...Jan 90 49
Computers & computer assistance - Bullet comparison methods ...Oct 80 81
Computers & computer assistance - Bullet Inventory Computerized ...Oct 88 438
Computers & computer assistance - Class characteristics ...NLR 5 12
Computers & computer assistance - CLIS on a personal computer ...Oct 90 431
Computers & computer assistance - CLIS Update (Houston GRC file) ...Oct 91 1005
Computers & computer assistance - Compuserve, Prodigy, on-line services ...Apr 95 xxi
Computers & computer assistance - Computer bullet identification ...Apr 79 26
Computers & computer assistance - Confidence level variations in firearms (bullet comparisons) ...Winter 97 42
Computers & computer assistance - CorelDraw5 use in the Trig-Elliptical method of bullet impact angle determination ...Spring 01 122
Computers & computer assistance - Correlation algorithms in a Database of cartridge cases ...Summer 99 336
Computers & computer assistance - Electronic Bulletin Board Svc. ...Oct 83 12

Computers & computer assistance - Ellipse tool use in the Trig-Elliptical method of bullet impact angle determination ...Spring 01 122

Computers & computer assistance - Email, Internet, America on Line (AOL), ...Apr 95 xxi

Computers & computer assistance - External Ballistics ...Apr 90 217

Computers & computer assistance - External Ballistics program ...Jan 91 505

Computers & computer assistance - External ballistics program ...Jul 90 341

Computers & computer assistance - FBI Drugfire program ...Apr 90 216

Computers & computer assistance - Feature extraction of optical projectiles images, Firearms Report Review Paper - 1998-2001 ...Fall 2002 409

Computers & computer assistance - Firearm identification ...Jul 82 157

Computers & computer assistance - Firearm type determination ...Oct 86 4

Computers & computer assistance - FireBall Firearm Identification System (computerized images) ...Summer 00 285

Computers & computer assistance - Firing pin rotation, effect on Drugfire and IBIS ...Fall 99 443

Computers & computer assistance - General Rifling Characteristic file ...Oct 91 1005

Computers & computer assistance - Headstamp files ...Oct 85 7

Computers & computer assistance - Home pages, email, & links online ...Summer 98 571

Computers & computer assistance - IBIS - Brasscatcher Performance Study ...Jul 96 194

Computers & computer assistance - IBIS - Protocols for casing entry into Brasscatcher ...Summer 97 326

Computers & computer assistance - Image enhancement and databases ...Jul 91 876

Computers & computer assistance - Information retrieval system ...Jul 80 39

Computers & computer assistance - Land mark comparison (Correctn) ...Jul 90 346

Computers & computer assistance - Manual and automated bullet and cartridge case comparison systems ...Winter 97 55

Computers & computer assistance - Obliterated serial number tracking program ...Oct 95 264

Computers & computer assistance - Pattern recognition in a database of cartridge cases, Firearms Report Review Paper - 1998-2001 ...Fall 2002 409

Computers & computer assistance - Point of origin of shots ...Jan 91 524

Computers & computer assistance - Probability of consecutive striae, IBIS study and overview ...Winter 98 15 (Part II - Spring 00 116)

Computers & computer assistance - Probability of corresponding striae ...Jul 92 273

Computers & computer assistance - See also LEO (Law Enforcement Online)

Computers & computer assistance - Serial number restoration enhancement using Drugfire ...Spring 97 223

Computers & computer assistance - Short-Range Bullet Trajectory ...Jul 91 784

Computers & computer assistance - Striation identification ...Apr 84 61

Computers & computer assistance - Surface topology of bullet striations ...Spring 98 294

Computers & computer assistance - Toolmark Identification System ...Oct 91 990

Computers & computer assistance - TRAX for computer comparison of striated toolmarks ...Jul 96 183

Computers & computer assistance - Twist rate conversion ...Mar 77 51

Computers & computer assistance - Worksheets ...Summer 98 575

Concealed firearms - Belt buckle revolver ...Oct 81 89

Concealed firearms - Book ...Apr 85 66

Concealed firearms - Briefcase ...Jul 84 14

Concealed firearms - Cane gun ...Jan 83 55

Concealed firearms - Hide-A-Gun ...Jan 83 113

Concealed firearms - Knife concealed ...Jan 83 75

Concealed firearms - Lighter ...Jul 83 126

Concealed firearms - Pager modified to conceal mini-revolver ...Jul 87 313

Concealed firearms - Paint pistol, lethal ...Summer 02 304

Concealed firearms - See also Homemade firearms

Concealed firearms - Six inch long 12 gauge shotgun ...Oct 82 45

Concealed firearms - Walking stick - .223 Remington caliber

Conclusions, range of ...Jul 92 336

Confidence level variations in firearms (bullet comparisons) ...Winter 97 42

Coning motion - See **Ballistics, external**

Connecticut Cartridge Co. - Various calibers ...Apr 85 86

Connecticut Valley Arms - In-Line Muzzleloading Rifles manufactured in 1995 & 1996 **Safety warning** ...Fall 99 500

Consecutive manufacture - Barrels ...Jan 83 33

Consecutive manufacture - Bolt cutters ...Jul 92 260

Consecutive manufacture - Breechface marks (close serial numbers) ...Jul 86 15

Consecutive manufacture - Bullet examinations from two barrels ...Summer 00 259

Consecutive manufacture - Bunter tools made by EDM ...Winter 00 49

Consecutive manufacture - Button rifled barrels ...Apr 89 370

Consecutive manufacture - Button rifled barrels ...Jul 81 84

Consecutive manufacture - Button rifled barrels ...Jul 85 64

Consecutive manufacture - Chisels ...Fall 2002 379
Consecutive manufacture - Cooley rifle barrels ...Jan 81 46
Consecutive manufacture - Crimping dies ...Apr 89 219
Consecutive manufacture - Crimping dies ...Sep 78 19
Consecutive manufacture - Criteria for identification applied to bullets from consecutively rifled barrels ...Spring 01 125
Consecutive manufacture - Derringer barrels ...Jul 95 254
Consecutive manufacture - Knife blades ...Sep 78 43
Consecutive manufacture - Knives used to cut tires ...Apr 89 306
Consecutive manufacture - Knives used to cut tires ...Jan 82 50
Consecutive manufacture - Manufacturing processes, effects, Firearms Report Review Paper - 1998-2001 ...Fall 2002 409
Consecutive manufacture - Polygonal barrels ...Jun 78 40
Consecutive manufacture - Review of the literature ...Summer 00 259
Consecutive manufacture - Revolver barrels ...Apr 89 120
Consecutive manufacture - Revolver barrels ...NLR 9 24
Consecutive manufacture - Ruger bolt faces with machined striations that can be mistaken for individual characteristics...Winter 00 19
Consecutive manufacture - Ruger P-85 barrels ...Summer 98 438
Consecutive manufacture - Ruger P-89 slides ...Spring 2003 157
Consecutive manufacture - S&W revolver barrels ...Spring 99 117
Consecutive manufacture - Screwdrivers - Examination of consecutively manufactured (slotted) ...Winter 03 66
Consecutive manufacture - Screwdrivers ...Mar 76 29
Consecutive manufacture - Striae reproducibility on sectional cuts of one Thompson Contender barrel ...Winter 98 62
Consecutive matching striae - Criteria for identification - Discussion panel comments and clarification of responses ...Winter 03 55
Consecutive matching striae - Overview and use of ...Spring 02 227
Consecutive matching striae - See also Criteria for identification
Consecutive Matching Striae: A General Critique - Response by Bruce Moran [original article appeared in the Journal of Forensic Sciences] ...Spring 02 227
Consecutive striae - **See also Mathematical models or Criteria for identification**
Consecutive striae theory - Criteria for identification and bullet striae ...Spring 02 158
Consecutively created toolmarks from bolt cutters ...Jul 92 260
Consecutively fired bullets and cases ...Apr 89 331
Consecutively fired bullets and cases ...Jul 83 109
Consecutively fired bullets and cases ...Jul 83 127
Constitution and Bylaws - **See AFTE - Constitution and Bylaws**
Construction and relative efficiency of a homemade sound suppressor vs. a commercial model ...Spring 01 103
Controls - Daubert criteria and Firearm/Toolmark examination ...Winter 03 38
Conversion kits - .36 Navy to .38 S&W ...Jun 78 65
Conversion kits - Adapter (12 gauge to .410 - .44 Mag. also) ...Apr 85 69
Conversion kits - Adapter, Cherry Converter (12 gauge to .38 Spl) ...Apr 85 70
Conversion kits - Adapters, various calibers ...Apr 83 9
Conversion kits - Alcan Shotgun adapter ...Jun 73 5
Conversion kits - Alcan shotgun adapter ...Jun 73 5
Conversion kits - Atchisson Device ...Oct 73 18
Conversion kits - Cap & ball revolver (.36 to .38 S&W) ...Apr 88 159
Conversion kits - Cap gun converted to firearm ...Apr 83 76
Conversion kits - Chamber insert (.308 from .30-06) ...Jan 88 63
Conversion kits - Colt AR-15 ...Jul 90 334
Conversion kits - Colt Govt. Model (.45 to .22) ...Apr 88 162
Conversion kits - Colt M1911A1 to 30 Mauser ...Jul 90 337
Conversion kits - Grenade launcher, rocket propelled to 7.62x39mm ...Jul 86 64
Conversion kits - Mauser rifle to shotgun ...Jan 86 16
Conversion kits - National Cartridge (various calibers) ...Oct 88 463
Conversion kits - Obsolete revolver ...Apr 83 14
Conversion kits - Overview ...Oct 82 143
Conversion kits - Shell Shrinker ...Dec 76 69
Conversion kits - Shell Shrinker ...NLR 3 9
Conversion kits - Sub-caliber devices ...Jan 94 77
Conversion kits - Subcaliber devices in silenced shotguns (disguised) ...Apr 95 154
Conversion kits - Various ...Dec 75 16
Conversion kits - Various calibers ...Oct 79 23
Conversion to full auto - **See Automatic conversions**
Conversions - Colt Model 1911 .455 Webley converted to .45 ACP ...Winter 97 66

Cooley - Characteristics in rifles ...Jan 81 46

Cook-off - See also Thermal

Cook-off ...Jan 92 46

Cook-off ...Jul 91 849

Cook-off, Fire-damaged firearm, identifications from ...Summer 99 376

Coonan Arms - Barrel manufacturing ...Oct 88 396

COP - .357 four shot derringer doubling ...Jan 82 44

COP - Pistol ...Oct 83 18

COP - Rifling ...Oct 81 510

Copper annealing to facilitate bullet comparison ...Summer 97 276

Copper bullets, Design, composition, external, terminal, and wound ballistic properties ...Summer 99 344

Copper sabot shotgun slugs ...Summer 00 301

Copper test - Bullet residue inside bore ...Jan 80 60

Copper test - Bullet wipe ...Apr 89 298

Copper tests - See also Gunshot residues

Copper trace detection ...Spring 97 204

Copper, test for ...Jul 92 254

Cordero - 8mm revolver ...Jan 83 54

Core weights of bullets ...Spring 02 161

Core weights of bullets ...Winter 98 125

Core, bullet - False land impressions on bullet cores ...Winter 99 55

Coronet Mfg. Co. - Barrel makers ...Oct 82 8

Correlation algorithms in a Database of cartridge cases ...Summer 99 336

Corrosion - Influence of the use of firearms on their characteristic marks ...Summer 99 318

Corrosion restoration of a .38 caliber Belgian revolver ...Fall 99 476

Court testimony - Admissibility of tests and procedures ...Dec 76 50

Court testimony - Clarity and nomenclature of characteristics ...Apr 85 30

Court testimony - Criteria for identification - Essential aspects ...Summer 02 289

Court testimony - Daubert criteria ...Summer 02 289

Court testimony - Daubert criteria ...Winter 03 38

Court testimony - Daubert criteria for admissibility ...Winter 98 3

Court testimony - Demeanor ...Oct 84 35

Court testimony - Demonstrative evidence ...NLR 9 4

Court testimony - Exhibits ...Apr 91 699

Court testimony - Exhibits, Little Gunmen: Reconstructn miniatures ...Jul 91 836

Court testimony - Expert definitions ...NLR 7 10

Court testimony - False testimony admitted ...Jul 80 84

Court testimony - Guidelines ...Apr 89 232

Court testimony - Guidelines ...Oct 79 70

Court testimony - Intent in shooting reconstructions ...Oct 93 294

Court testimony - Jury preconceptions ...Apr 80 67

Court testimony - Mock courtroom examination ...Summer 00 231

Court testimony - Overview ...Oct 81 140

Court testimony - Overview ...Oct 82 101

Court testimony - Photograph of firearm from bank surveillance camera ...Winter 97 45

Court testimony - Photos inadmissible ...Apr 79 52

Court testimony - Qualification questions for criteria for identification ...Jan 92 69

Court testimony - Qualifications of a ballistics expert ...Apr 89 375

Court testimony - Role of the expert witness ...Oct 89 639

Court testimony - Sample transcript ...Jan 86 71

Court testimony - Sample transcript ...Jul 83 48

Court testimony - Scientific proof in criminal cases ...Apr 89 123

Court testimony - Scientific proof in criminal cases with Q & A ...NLR 10 17

Court testimony - Starrs, James, transcript in Frye hearing re bunter identification ...Winter 98 186

Court testimony - Techniques (fiction) ...Jan 83 69

Court testimony - Techniques ...Apr 91 699

Court testimony - Use of Forensic evidence ...Apr 88 140

Court testimony - Views of the defense ...Apr 80 59

Court testimony - Visual aids of cartridges, bullets, etc. ...Oct 94 309

Court testimony ...Apr 73 8

Court testimony ...Aug 73 26

Court testimony ...Aug 73 34
Court testimony ...NLR 20 26
Court testimony ...Oct 72 8
Courtroom examination, mock ...Summer 00 231
Crime Lab Proficiency Testing Program - See **Proficiency Testing**
Crime Laboratory Information System - See **CLIS**
Crime scenes - Ballistic Alignment Laser in scene reconstruction ...Summer 97 372
Crime scenes - Bullet hole probe techniques ...Jan 96 57
Crime scenes - Cartridge case ejection reconstruction ...Jan 93 15
Crime scenes - Case example for objectivity ...Jan 81 32
Crime scenes - Crown and bank road structure affects bullet path angles ...Winter 98 89
Crime scenes - Distance estimation in shootings, bullet holes in cadavers, Firearms Report Review Paper - 1998-2001 ...Fall 2002 409
Crime scenes - Distance estimation in shootings, bullet holes in objects, Firearms Report Review Paper - 1998-2001 ...Fall 2002 409
Crime scenes - Distance estimation in shootings, clothing items, Firearms Report Review Paper - 1998-2001 ...Fall 2002 409
Crime scenes - Evidentiary value of loaded firearms ...Dec 75 35
Crime scenes - Firearms evidence ...Oct 80 93
Crime scenes - Impact angle determination through plastic windows ...Winter 97 73
Crime scenes - Intensive field investigation productive ...Dec 75 75
Crime scenes - Intent in shooting reconstructions ...Oct 93 294
Crime scenes - Interesting case ...Mar 76 70
Crime scenes - Investigation ...Oct 82 78
Crime scenes - Kit catalog ...Apr 83 17
Crime scenes - Laser pointer, use of in reconstruction ...Jul 94 170
Crime scenes - Laser use ...Oct 81 21
Crime scenes - LaserMax gunsight as ballistics alignment tool ...Summer 97 369
Crime scenes - Motor vehicles in motion, shots fired at ...Summer 99 324
Crime scenes - Reconstructing bullet paths with unfixed intermediate targets ...Jan 95 45
Crime scenes - Reconstruction ...Apr 91 699
Crime scenes - Reconstruction of a double homicide ...Spring 01 135
Crime scenes - Reconstruction of distance determination based on shotgun pellet pattern density ...Spring 02 177
Crime scenes - Reconstruction using laser-theodolite ...Jan 91 538
Crime scenes - Recording bullet defects ...Jul 96 168
Crime scenes - Shooting reconstruction and reenactment ...Apr 93 125
Crime scenes - Shooting reconstruction of ricochets on asphalt ...Winter 03 74
Crime scenes - Shotgun related evidence ...Jul 77 111
Crime scenes - Step drill for bullet recovery from vehicles ...Spring 98 345
Crime scenes - Trajectory analysis and reporting, proposals for ...Summer 98 482
Crimping dies - Consecutively manufactured ...Sep 78 19
Criteria for identification - AFTE 2001 Training Seminar Panel Discussion transcript ...Summer 02 323
Criteria for identification - Automated methods ...Jul 88 252
Criteria for identification - Automated methods ...Jul 88 260
Criteria for identification - Case law - Joseph Ramirez vs. State of Florida, Supreme Court Decision (Daubert) ...Spring 02 215
Criteria for identification - Committee report ...Jul 90 275
Criteria for identification - Consecutive matching striae - critique, Firearms Report Review Paper - 1998-2001 ...Fall 2002 409
Criteria for identification - Consecutive matching striae ...Summer 02 289
Criteria for identification - Consecutive striae (Part I) ...Winter 98 15
Criteria for identification - Consecutive striae (Part II) ...Spring 00 116
Criteria for identification - Consecutively rifled barrels, application of conservative criteria ...Spring 01 125
Criteria for identification - Daubert criteria for admissibility ...Winter 98 3
Criteria for identification - Discussion panel comments and clarification of responses ...Winter 03 55
Criteria for identification - Documentation of firearm/tool mark comparisons ...Spring 2003 149
Criteria for identification - Essential aspects ...Summer 02 289
Criteria for identification - Firearms comparisons sub-group (European labs), Firearms Report Review Paper - 1998-2001 ...Fall 2002 409
Criteria for identification - General ...Jul 92 336
Criteria for identification - Individual characteristics criteria (overview) ...Spring 98 276
Criteria for identification - Language of toolmarks (science versus art) ...Winter 98 82
Criteria for identification - Numerical criteria for identification in casework involving magazine and land impressions ...Winter 01 41
Criteria for identification - Overview ...Jan 84 112
Criteria for identification - Overview ...Oct 84 16
Criteria for identification - Overview and use of consecutive matching striae ...Spring 02 227

Criteria for identification - Overview, probability of consecutive striae (Part I) ...Winter 98 15
Criteria for identification - Overview, probability of consecutive striae (Part II) ...Spring 00 116
Criteria for identification - Passing the reliability test under federal and state evidentiary standards ...Spring 2003 209
Criteria for identification - Photo documentation of toolmark identifications - an argument in support ...Spring 2003 174
Criteria for identification - Probability of consecutive striae, IBIS study (Part I) ...Winter 98 15
Criteria for identification - Probability of consecutive striae, IBIS study (Part II) ...Spring 00 116
Criteria for identification - Qualifying questions for court testimony ...Jan 92 69
Criteria for identification - Research proposal ...Oct 84 26
Criteria for identification - Review of the methods used for comparing tool marks on cartridge cases and bullets, Firearms Report Review Paper - 1998-2001 ...Fall 2002 409
Criteria for identification - Scientific methods, advances in - Firearms Report - Speaking Paper 1998 - 2001 ...Fall 2002 362
Criteria for identification - See also Theory of identification
Criteria for identification - Single land impression comparisons (Part I) ...Winter 98 15
Criteria for identification - Single land impression comparisons (Part II) ...Spring 00 116
Criteria for identification - Theory of identification as it relates to toolmarks ...Winter 98 86
Crosman - Model 1008 ...Summer 98 435
Crosman - Model 3100 air rifles - **Safety warning/Recall** ...Winter 02 62
Crosman - See also Air guns
Cross-Infection of infectious diseases as applied to forensic firearm examiners and the means to prevent it ...Summer 01 227
Crossword puzzle ...Jul 81 9
Crossword puzzle ...Oct 81 7
Crown and bank: Road structure as it affects bullet path angles in vehicle shootings ...Winter 98 89
Crown City Arms - Hummingbird pistol ...Jan 82 70
Crowning - Effects on bullet identification ...NLR 7 12
Crowning - Effects on bullet identification ...Oct 87 440
Cubic Shot Co. - Cubic and rubber shot ...Oct 88 435
Cut nail manufacturing and toolmark identification ...Summer 98 492
Cut-away firearms for training ...Spring 99 133
CVA - See **Connecticut Valley Arms**
Cyano-Acrylate - See **Super Glue**
Cyclic rates of fire ...Summer 00 252
CZ - Model 75 magazine used in FN pistol results in accidental discharge ...Fall 99 483
Czechoslovakia - Model 52, 7.62mm Tokarev caliber pistols, Model CZ52, defective hammer drop safety ...Fall 99 500
Czechoslovakia - Model CZ 50, Model CZ50...Oct 93 264
Czechoslovakia - Model CZ 83, Model CZ83 pistol, double firing pin strike ...Winter 99 36
Czechoslovakia - Model VZ 24, Model VZ24 - Hidden serial number ...Jan 95 72
Daisy - Caseless shooting system ...Jul 84 61
Daisy - See also Air guns
Dan Wesson Arms - Reversible barrels ...Jan 79 26
Dan Wesson Arms - See also Fulton Arms
Dan Wesson Arms - Serial numbers ...Aug 72 23
Danshway - 9mm pistol, Egyptian copy of Helwan ...Jul 92 311
Dardick ...NLR 8 11
Dark field illumination ...Jan 86 25
Database, Image ...Jul 91 876
Datamatrix - Laser engraved, a preliminary study ...Summer 01 280
Daubert - Firearm/Toolmark identification: Passing the reliability test under federal and state evidentiary standards ...Spring 2003 209
Daubert - See also Criteria for identification or Case law or Court testimony
Daubert criteria and Firearm/Toolmark examination ...Winter 03 38
Daubert criteria for admissibility ...Winter 98 3
Daubert decision, mock testimony ...Summer 00 231
Daubert requirements and AFTE Peer Review ...Spring 02 210
Davis Industries - Derringer breechface marks ...Jul 96 177
Davis Industries - Derringer breechface marks ...Summer 97 310
Davis Industries - Derringers ...Jul 90 310
Davis Industries - Model D-25 Derringer ...Apr 85 77
Davis Industries - Model D-32 Derringer ...Jan 89 82
Davis Industries - Model D38 derringer with one rifled and one unrifled barrel ...Jul 96 174
Davis Industries - Model P-380 - Smoothbore ...Oct 94 301
Davis Industries - Primer indentations on unfired cartridges ...Jan 95 61
Dean Machine Company ...Jul 77 119

Death of Amos Hamilton ...Winter 01 50
Decimal measurements vs. Metric measurements ...Mar 75 42
Decoding laser-etched firearm identifiers ...Summer 02 264
Decryption of laser-etched firearm identifiers ...Summer 02 264
Defense investigator's role ...Oct 87 406
Definitions, Materials Terminology ...Fall 98 663
Deflection of bullets after sheet metal perforation ...Fall 97 431
Deflection of bullets due to angled intervening materials ...Fall 01 304
Deformation of bullet bases as an index of impact velocity for full metal jacketed rifle bullets ...Winter 01 11
Deformation of sheet metal by bullets ...Fall 97 431
Deformed bullets, measuring ...Summer 98 428
Delay cartridges .38 Spl ...Feb 74 5
Delu pistol ...NLR 19 33
Demonstrative evidence ...Apr 91 699
Denel Ltd., Pretoria Metal Pressings (PMP) ...Spring 00 180
Dent puller identified ...Sep 78 38
Dental gypsum - Hatchet marks in human skull bone ...Spring 98 349
Deposition of GSR on unfired cartridges in the adjacent chambers of a revolver ...Fall 00 346
Dermal nitrate test - see Gunshot residues
Derringer - Remington, sympathetic discharge ...Jul 96 147
Derringer barrels - Consecutive manufacture ...Jul 95 254
Derringer pistol history ...Jul 85 91
Derringers - Davis Industries ...Jul 90 310
Detonics - History and products (interview with Sid Woodcock) ...Fall 01 354
Deutsche Werke - Ortgies Pocket Pistols ...Winter 97 87
Devastator ammunition - See also Bingham
Devastator ammunition ...Apr 84 106
Development of Certification Examinations for Practicing Firearm and Toolmark Examiners, Summary Report ...Fall 00 373
DFA - Frangible bullets ...Spring 98 340
Diameter of circle determination by chord measurement ...Apr 88 149
Diamond gunshot residue pattern ...Winter 98 126
Dieseling of airguns using commonly available fuels ...Spring 2003 167
Diffusors for fiber optic illuminators ...Oct 90 446
Digital bullet stage ...Winter 99 57
Digital imaging ...Jul 91 876
Digital photography for publication submissions ...Spring 01 147
Diphenylamine - see Gunshot residues
Dip-Pak thermo-plastic ...Oct 94 307
Discharge, accidental, temperature initiated ...Jul 91 849
Disconnecter - See **Safeties**
Discontinued firearms - Index of firearm brand names and distributors from 1939 sporting goods trade directory ...Spring 2003 260
Diseases, Infectious - Prevention for firearm examiners ...Summer 01 227
Disinfectants, use of ...Summer 01 227
Disintegrating bullets - See **Frangible bullets**
Distance determination - .25 Auto ammo variations...Spring 98 255
Distance determination - Back spatter from auto windshield glass ...Summer 98 445
Distance determination - Barrel length and shot patterns ...NLR 11 26
Distance determination - Bleeding as a source of lead particulates on clothing ...Oct 94 269
Distance determination - Blood extraction, trace evidence retention ...Jul 92 304
Distance determination - Blood removal from fabric ...Apr 94 155
Distance determination - Blown shotgun pattern ...Oct 81 30
Distance determination - Buckshot patterning variation & meas. using equivalent circle dia. method ...Summer 98 455
Distance determination - dye removal (bleaching) of dark cloth for visualization of residues ...Jan 96 3
Distance determination - Effects of glass on shotgun patterns ...Oct 79 54
Distance determination - Graphic shotgun pellet patterns ...Oct 89 593
Distance determination - Griess and Modified Griess test protocols, Evaluation of ...Winter 01 29
Distance determination - Griess and Sodium Rhodizonate tests simplified ...Winter 01 37
Distance determination - Lead vaporized by intermediate impact ...Apr 93 75
Distance determination - Paint (wet) used to collect test residues ...Oct 92 353
Distance determination - Pellet pattern density ...Spring 02 177
Distance determination - Pellets from shotgun with sabot ...Winter 97 26

Distance determination - Plastic tube used to measure test shots ...Jan 92 76
Distance determination - Polyethylene shotshell filler patterns ...Jul 91 856
Distance determination - Sawed off shotgun patterns ...NLR 8 26
Distance determination - Scientific methods, advances in - Firearms Report - Speaking Paper 1998 - 2001 ...Fall 2002 362
Distance determination - See also Gunshot Residues
Distance determination - Shot patterns with OO-buck ...Jul 77 132
Distance determination - Shot pellet patterns, angled ...Jul 95 204
Distance determination - Shot spread reducing and shot spread eliminating shotgun wads ...Fall 00 361
Distance determination - Shotgun barrels with rifling - effects on patterns ...Jul 92 246
Distance determination - Shotgun barrels, rifled, effects on pellet patterns ...Spring 99 138
Distance determination - Shotgun pattern with intervening target (hand) ...Spring 01 135
Distance determination - Shotgun pellet patterns - Using pellet to pellet average distance ...Spring 02 139
Distance determination - Shotguns ...Dec 75 66
Distance determination - Shotguns ...Sep 78 11
Distance determination - Skin simulants for distance determinations ...Spring 00 136
Distance determination - Spiral residue pattern ...Jul 95 247
Distance determination - Squib load ...Oct 94 254 (corrections ...Jan 95 83)
Distance determination - Stippling/Tattooing vs. Powder Burning ...Spring 00 178
Distance determination - Test material ...Apr 94 150
Distance determination - Use of same ammo & firearm necessary ...Jan 92 58
Distance determination - Vaporized lead from bullet impact with intermediate target ...Jan 95 44
Distance determinations - Expectations regarding gunpowder depositions ...Winter 98 94
Distance determinations - Mock testimony ...Summer 00 231
Distributors - Index of firearm brand names and distributors from 1939 sporting goods trade directory ...Spring 2003 260
Dithiooxamide vs. 2-Nitroso-1Naphthol for trace copper detection ...Spring 97 204
Dixon, Billy - Long shot ...Jul 95 222
DNA from trace evidence on bullet leads to DNA "match" ...Winter 97 58
Documentation - Photo documentation of toolmark identifications - an argument in support ...Spring 2003 174
Documentation of firearm/tool mark comparisons ...Spring 2003 149
Doppler radar and External ballistics of 9mm Parabellum cartridges ...Summer 97 330
Double Deuce - See **Steel City Arms**
Double firing pin impressions, .22 rimfire ...Fall 98 655
Double firing pin strike, CZ, model 83 pistol ...Winter 99 36
Doubling ...Jan 82 44
Downloading cartridges, effect on bullet identification ...Summer 00 271
Drawings - From photographs ...NLR 6 2-7
Drawings - Scale, in investigations ...NLR 6 2-14
Drill bits - Sharpening ...Jan 88 75
Drilling - rifled barrel to convert to a smooth bore ...Oct 91 930
Drop testing a Colt Model 1911 ...Spring 97 183
Drop-fired cartridge ...Fall 00 352
Drop-fired or Fired and Dropped? ...Spring 00 154
Drugfire - Correlation algorithms in a Database of cartridge cases ...Summer 99 336
Drugfire - Firing pin rotation effects ...Fall 99 443
Drugfire - Manual and automated systems ...Winter 97 55
Drugfire - NIBIN merger ...Spring 00 214
Drugfire - Overview ...Summer 99 383
Drugfire program ...Apr 90 216
Dry fire damage to firearm leaves marks on bullets ...Apr 92 162
Dry fire safety station ...Apr 94 119
Dumdum bullets from military pistol ammunition: wound effectiveness ...Winter 98 112
Dvorak Instruments - Trigger-Scan System, accuracy testing ...Fall 00 364
Dye marking pistol, Para-Ordnance, model 85 ...Winter 97 3
Dynamic stability (of bullets) - See **Ballistics, external**
Dynamit Nobel - Gunpowder, green and somewhat "T" shaped ...Mar 75 63
Dynamit Nobel - Hi-Jacker cartridge ...Mar 77 39
Dynamit Nobel - Plastic ammunition ...Aug 72 30
Dynamit Nobel - Plastic ammunition ...Aug 72 30
Eagle Arms Inc. - ArmaLite name and rights purchase ...Summer 02 312
Ear Impressions - ...Jul 91 850
Echasa - .32 Auto ...NLR 11 35

Echasa - Semiauto pistol ...NLR 8 35
Eclipse - 12 gauge all-plastic shotshells ...Jul 84 21
Eclipse - 12 gauge all-plastic shotshells ...Oct 83 60
ECR - See Electrochemical rifling
Eddy Manufacturing Co. - .45 Auto ...Jan 82 43
Editorial Review of the AFTE Journal (Daubert requirements) ...Spring 02 210
EDM marks on bunters on Consecutively made cartridge cases ...Fall 2002 407
Education - CLEP Tests ...Jul 77 228
Effect of powder load and bullet material on an identification ...Summer 00 271
Effects of variables on the appearance of gunshot depositions using 9mm Luger ammunition ...Summer 98 462
EFK Marketing - Aftermarket barrels for Glock pistols ...Fall 98 640
Eh1-9 silencer ...Spring 01 103
EIG - 4-shot derringer muzzle imprint ...Jul 96 154
EIG - Blank revolver ...Jul 77 172
EIG ...NLR 1 19
Ejection pattern reconstruction ...Jan 93 15
Ejection patterns of .25 Auto pistols held sideways (horizontally) ...Fall 98 644
Ejection patterns of cartridge cases ...Spring 98 300
Ejection port marks from Nambu, Type 14 ...Spring 98 356
Ejection port marks on bullets ...Jul 88 306
Ejection port marks: A Signature of Beretta ...Summer 01 251
Ejector cut-out marks in shotguns, Comparison value ...Fall 2002 391
Ejector marks - confusion with firing pin marks ...Oct 81 106
Ejectors - Smith & Wesson - Model 5906 ejectors ...Fall 2002 406
Eldorado Cartridge Corp. - Headstamps ...Oct 90 443
Electrical discharge machining (EDM), Application to Bunter manufacturing ...Winter 00 16
Electro-chemical marking - Modern marking and serial numbering methods ...Summer 99 309
Electrochemical rifling, validation study ...Winter 03 35
Electronic spark reduction to mark barrels to aid bullet identification ...Spring 97 232
Electropolishing, Blackstar bore treatment ...Spring 97 235
Elemental analysis of lead ...Summer 02 314
Eliminator, The - Blood Removal Solution ...Jul 91 808
Embroidered writing identified ...Jan 90 41
Encom - Mk IV assault pistol ...Jul 94 176
End milling produces striations that can be mistaken for individual characteristics ...Winter 00 19
Enfield - And Lee Enfield ...Jul 94 173
Enfield S. M. L. E. Pattern 14 303 British vs. Springfield 30-06 ...Oct 93 318
Engine head gasket identification ...Jul 84 18
Enscom - See **CMP**
Entry device - Jet Ax ...Jun 73 31
EPOI - Comparison projector ...Feb 74 29
Epoxy core bullets, (Swat load) MagSafe ...Spring 00 168
Equipment - Abrasive wheels for preparation for serial number restoration ...Jan 96 21
Equipment - Alarm, audible, for personnel in shooting room ...Fall 99 495
Equipment - Angle gauge for trajectory angles ...Jul 93 231
Equipment - AO Fiber Optic light diffusors ...Jul 87 321
Equipment - Borescope ...Apr 82 6
Equipment - Borescope, Hawkeye, by Gradient Lens Corp. ...Apr 96 144
Equipment - Bullet holding adhesive ...Jul 87 301
Equipment - Bullet puller for .22s ...Apr 87 172
Equipment - Bullet trap - Forensic Buddy ...Fall 01 359
Equipment - Bullet trap, portable, light weight ...Winter 98 117
Equipment - Bullet trap, Snail, passive ...Jan 92 82
Equipment - Chronograph shield ...Oct 92 371
Equipment - Clamps to hold semiautomatics open ...Oct 90 456
Equipment - Comparison microscope history ...Spring 02 186
Equipment - Comparison microscope photography ...Jan 94 11
Equipment - Cotton waste source ...Apr 85 59
Equipment - Diffusors for fiber optic illuminators ...Oct 90 446
Equipment - Digital bullet stage ...Winter 99 57
Equipment - Doppler radar ...Apr 92 129

Equipment - Fiber optic system evaluation (American Volpi Corp.) ...Jan 86 12

Equipment - Fiber optic videomicroscopy ...Apr 93 132

Equipment - Fiber optic videomicroscopy ...Jul 90 280

Equipment - Firing pin exam techniques using comparison microscope ...Fall 97 470

Equipment - Fluorescent lighting system, high intensity, for comparison scope, building ...Winter 97 49

Equipment - Focusing borescopes ...Oct 82 8

Equipment - Forensic Buddy bullet trap ...Fall 01 359

Equipment - Gelatin, ordnance, correlations of ...Jan 93 2

Equipment - Gelatin, ordnance, custom molds for ...Summer 02 321

Equipment - Gelatin, ordnance, custom molds for, Update ...Fall 02 358

Equipment - Griffin's reagent for stainless steel serial number restoration...Fall 99 497

Equipment - Helixometer, history of ...Spring 02 186

Equipment - Holder for small items ...Jul 87 318

Equipment - Hollowpoint bullet expansion countermeasures ...Jan 95 52

Equipment - IBIS - Modifying ring light to improve correlation scores ...Fall 00 337

Equipment - IBIS - See also IBIS

Equipment - Ink-jet paper, High-gloss, photo-quality, for modified Griess tests ...Spring 2003 243

Equipment - Laser ...Apr 89 303

Equipment - Laser construction ...Apr 87 175

Equipment - Laser for ballistic alignment ...Jan 92 65

Equipment - Laser pointer in crime scene reconstruction ...Jul 94 170

Equipment - Laser-theodolite system for scene reconstruction ...Jan 91 538

Equipment - Law enforcement Technologies Inc. ISID-1 "Instant Shooter ID Kit", evaluation of ...Fall 2002 404

Equipment - Leica DM-C Comparison Macroscope assessment ...Jan 96 6

Equipment - Leica DMC Comparison Macroscope stand ...Oct 96 291

Equipment - Line level for trajectory measurements ...Jan 93 21

Equipment - Mercury bath barrel restoration technique ...Jul 96 204

Equipment - Microfiche reader availability ...Jul 82 11

Equipment - Molds, custom, for ordnance gelatin ...Summer 02 321

Equipment - Molds, custom, for ordnance gelatin, Update ...Fall 02 358

Equipment - Mounting stub modification for manual bullet acquisition for IBIS ...Winter 97 70

Equipment - Nylon bench block ...Jul 83 20

Equipment - Oblique lighting on the comparison microscope ...Jan 95 69

Equipment - Oehler Model 43 Personal Ballistics Laboratory System, Forensic Uses ...Winter 02 16

Equipment - Overview ...Jul 82 69

Equipment - Penetreen, Rust dissolver ...Fall 99 476

Equipment - Photography, high speed system ...Fall 01 339

Equipment - Plastic tube to measure distance determination test shots ...Jan 92 76

Equipment - Protective optics safety glasses ...Jan 92 80

Equipment - PVC target holder ...Dec 76 23

Equipment - Remote firing device ...Apr 93 116

Equipment - Remote firing of a damaged pistol ...Apr 94 142

Equipment - Rifle holder for cleaning, etc. ...Jan 90 54

Equipment - Scanning electron microscope applicability ...Jul 92 294

Equipment - Silicon for replicas of bullets and casings ...Jan 96 41

Equipment - Spa Vacuum (manual) for water tank bullet recovery and tank cleaning ...Fall 01 353

Equipment - Step drill for bullet recovery from vehicles ...Spring 98 345

Equipment - Stikki-Wax bullet holder ...Apr 82 4

Equipment - Toolmark adapter for comparison microscopes ...Mar 76 14

Equipment - Toolmark angle determination device ...Winter 03 19

Equipment - Tools for the firearm examiner ...NLR 20 12

Equipment - Tools from Brownell's ...Oct 90 453

Equipment - Transparency film for macroscopic comparisons ...Summer 99 367

Equipment - TRAX for computer comparison of striated Toolmarks ...Jul 96 183

Equipment - Trigger pull - Accuracy testing on Dvorak Instruments' Trigger-Scan System ...Fall 00 364

Equipment - Trigger pull scale, dry fire safety station ...Apr 94 119

Equipment - Trigger Scan System for trigger pull analysis ...Spring 99 123

Equipment - Trigger Scan, system for trigger pull measurement ...Fall 99 449

Equipment - Videotape erasing unit used to demagnetize firearms from Magnetic Resonance Imaging ...Winter 03 23

Equipment - Zero One gun rest ...Oct 91 973

Erl Svendsen F. A. Co. - Derringer pistol ...NLR 14 22

Erl Svendsen F. A. Co. ...NLR 15 22
Erma - Model EP25 auto pistol ...NLR 13 28
Erma-Excam - Model GT27 ...Jan 89 78
Erma-Excam - Model RX22 ...Jul 83 29
Erma-Excam - Model RX22 slam fire ...Apr 85 56
Ernst Thaelmann - Model M, 9mm Makarov ...Spring 99 145
Erosion - Influence of the use of firearms on their characteristic marks ...Summer 99 318
Error rates - Daubert criteria and Firearm/Toolmark examination ...Winter 03 38
Error, Guarding against ...Apr 89 450
Errors in published texts - **See Mistakes**
Etchants - **See Serial number restoration**
Ethics - Impartiality ...Summer 98 523
Ethics - See also AFTE - Code of Ethics
Ethics ...Jan 91 544
Ethics ...Oct 93 259
European Laboratories ...Jul 77 207
Evaluation of various Griess and Modified Griess test protocols ...Winter 01 29
Evan Thompson's .730 Nitroexpress ...Oct 92 381
Evidence - Circumstantial is still valuable ...Apr 80 37
Evidence - Corrosion inhibitor ...Jul 75 65
Evidence - Evidentiary value of loaded firearms ...Dec 75 35
Evidence - Examination techniques ...Apr 91 699
Evidence - Handling ...Jan 91 544
Evidence - Marking ...Apr 83 83
Evidence - Marking proposal ...Jul 75 59
Evidence - Marking, filing, and preservation ...Oct 82 56
Evidence - Marks used by examiners ...Oct 80 97
Evidence - Preservation for secondary gun examination ...Oct 91 982
Evidence - Results possible ...Apr 83 85
Evidence - Storage ...Apr 85 106
Evidence - Trace examinations ...Oct 82 58
Evidence - Trace on fired bullets ...Apr 89 142
Evidence - Trace on fired bullets ...NLR 13 16
Evidence collection - **See Collection of Evidence**
Evidence, trace - polishing material found on bullets, cases ...Jul 92 244
Examination procedures ...Jul 82 86
Examination procedures ...Oct 91 982
Excam - **See Erma-Excam**
Exemplar collection of firearms ...Apr 85 115
Expectations regarding gunpowder depositions ...Winter 98 94
Experiments - Admissibility of results ...Apr 89 249
Experiments - Admissibility of results ...Jul 80 51
Expert Testimony - **See Court Testimony**
Exploded pistol parts - Suicide bomber's weapon (FN Hi-Power, 9mm Luger caliber) ...Fall 01 335
Exploded views of firearms found in American Rifleman Magazine, index of ...Winter 03 81
Exploder ammunition - See also Bingham
Exploder ammunition ...Apr 84 104
Exploder ammunition ...Jan 79 28
Exploder ammunition ...Oct 79 19
Exploder Cartridge, Velet ...Apr 88 202
Exploding bullet, homemade ...Jan 92 16
Explosives & devices - Chemical analysis of compounds ...Oct 84 82
Explosives & devices - CO2 Cartridge ...Jan 82 25
Explosives & devices - General ...NLR 6 2-9
Explosives & devices - Militants Formulary ...NLR 7 24
Explosives & devices - Molotov cocktail ballistics ...Jul 93 199
Explosives & devices - Rat trap booby trap (12 gauge shell) ...Jan 83 64
Explosives & devices - See also Exploder ammunition
Explosives & devices - Tagging ...Apr 79 55
Explosives & devices - Toy store parts ...Apr 83 45
Explosives & devices - Tracing and manufacturers ...Jan 85 143

Exterior ballistics - See **Ballistics, external**
External ballistics - See **Ballistics, external**
Extractants - Improving GRS patterns on Bloody Garments ...Jul 91 808
Extractor marks - Federal ammunition manufacturing marks, Hydra-Shok, .40 S&W ...Winter 97 21
Extrusion gun, Silicon rubber, for casting ...Spring 97 213
F-1 - Australian machine gun ...Aug 73 28
Fabric impressions on cartridge cases ...Apr 92 160
Fabrique Nationale - Model FAL - Automatic conversion ...Jul 90 307
Fabrique Nationale - Model FNC - Automatic conversion ...Jul 89 509
Fabrique Nationale - Model Hi-power 9mm Luger pistol with wrong magazine results in accidental discharge ...Fall 99 483
Fabrique Nationale - Model P-90, Wounding effects with the 5.7x28mm 23gr. FMJ bullet ...Spring 98 326
Fabrique Nationale - Revolver ...Oct 82 44
Fabryka Broni Radom - See **Poland**
Falcon - Model 2032 ...NLR 3 27
Falling bullets ...Jan 90 27
FAMAS rifle - See **France**
Family characteristics - See Class characteristics
Fastening, Powder Actuated - Overview ...Jul 84 30
Fastening, Powder Actuated - See also Nail driver
Fastload power head - See **Aqua-Craft** ...Apr 79 86
FBI - Specialized Techniques in Firearms Identification course ...Jan 90 57
FBI Training center in Quantico ...Jul 80 70
Feather - Model AT-9 semiautomatic carbine ...Jul 90 333
Federal - .38 Special bullet style, new ...Jul 75 91
Federal - .44 S&W Spl cartridge ...Oct 81 109
Federal - 12 Ga. Shotshells altered with steel balls and sheet lead ...Spring 97 231
Federal - 20 gauge filler wads used in 12 gauge shot shells ...Apr 96 92
Federal - Accidental discharge of shotshell ...Jul 90 315
Federal - American Eagle Ammunition - TMJ bullets in .25ACP cartridges ...Spring 00 166
Federal - Ammunition manufacturing marks, Hydra-Shok, .40 S&W ...Winter 97 21
Federal - Brass finished rimfire bullets ...Sep 78 22
Federal - Bullet cores marked by jacket with apparent rifling ...Apr 88 189
Federal - Copper sabot shotgun slugs ...Summer 00 301
Federal - Frangible ammunition ...Winter 99 53
Federal - Lead-free cartridges ...Apr 95 142
Federal - Loading machine marks on wads ...Jan 80 36
Federal - New ammunition ...Jul 76 106
Federal - Nyclad manufacture ...Apr 82 4
Federal - Nyclad manufacture ...Apr 83 11
Federal - Nyclad manufacture ...Jul 83 25
Federal - Nyclad penetration ...Apr 85 83
Federal - Plastic insert in rifled slugs ...Jul 96 192
Federal - Plated bullets (.25 ACP) ...Apr 94 130
Federal - Primers, Large Pistol, lots 4A-1449, 4B-1449 **Recall** ...Jul 91 802
Federal - Rib effect on jacketed bullets ...Jul 95 259
Federal - Selling Winchester and Hirtenberg ammunition ...Aug 74 14
Federal - Striations on shotshell primers ...NLR 13 25
Federal Arms - Aftermarket barrels for Glock pistols ...Fall 98 640
Federal Cartridge Co. Tour report ...Summer 02 316
Federal Laboratories - Broomstick bullets ...NLR 9 22
Federal Ordnance - Barrels ...Apr 83 8
FEG - Model 37M semiautomatic pistol ...Winter 99 63
Fegyvergyar - AP66 pistol ...Mar 75 48
Femaru - See **FEG**
Fiber optic illuminator diffusors ...Oct 90 446
Fiber optic videomicroscopy ...Apr 93 132
Fiber optic videomicroscopy ...Jul 90 280
FIE - Model Sites Spectre - Arcs on breechfaces ...Jul 95 213
FIE - Model Sites Spectre 9mm Semiautomatic Pistol ...Oct 91 1000
FIE - Model Titan serial numbers ...Apr 88 197
FIE - Model Titanic revolvers ...Apr 74 18

FIE - Model Titanics - Intercomparisons ...Jul 77 64
FIE - Technical Advisor ...Apr 83 7
FIE (Firearms Import and Export) ...NLR 20 46
Files, All about ...Oct 86 105
Filli. Pietta - Model PPS/50 Automatic conversion ...Apr 90 174
Filmolux Film - Collection of GSR and chemographic testing of lead-free Sintox ammo ...Spring 2003 152
Fingernail comparisons - Admissibility undecided in Michigan ...Apr 85 96
Fingernail comparisons - Associations in murder cases ...Apr 89 278
Fingernail comparisons - Associations in murder cases ...Jan 81 39
Fingernail comparisons - Case study ...Jul 84 94
Fingernail comparisons - Identical twins ...Jul 82 23
Fingernail comparisons - Identification ...Apr 89 242
Fingernail comparisons - Identification ...Jan 80 27
Fingernail comparisons - Overview ...Oct 88 391
Fingernail comparisons - Vacuum evaporation of metals to enhance ...Oct 86 76
Fingerprinting bullets (article from 1925) ...Summer 99 242
Fiocchi - 00 Buck HV 12 Ga. Load, 1 oz. 9 pellets ...Fall 97 460
Fiocchi - 9mm Flobert cartridges ...Fall 98 661
Fiocchi - Ammunition, 25 ACP, powder variations ...Jul 88 325
Fiocchi - Manufacturing marks on primers ...Jan 95 20
Fiocchi - Manufacturing marks on primers in 9mm Luger FMJ 115 gn. Leadless ...Summer 00 300
Fire in an indoor firing range ...Apr 89 424
Firearm examination - Drop testing a Colt 1911 ...Spring 97 183
Firearm examination - Miscellaneous notes ...Apr 89 150
Firearm examination - Mock testimony ...Summer 00 231
Firearm examination - Pistol rendered inoperable by bullet fragment ...Spring 99 160
Firearm examination - Safety in the laboratory ...Winter 97 37
Firearm examination - Scientists or Factory Workers ...Apr 89 119
Firearm examination - Test firing a ruptured shotgun barrel ...Spring 97 188
Firearm examination - Time since discharge ...Jul 94 216
Firearm examination - Training notes ...Apr 89 195
Firearm examination - What is a firearms examiner ...Apr 89 128
Firearm examination - What the bullet tells ...Apr 89 419
Firearm exemplar collection ...Apr 85 115
Firearm identification - A Forensic Science Discipline ...Jul 80 12
Firearm identification - Are bullet comparisons guess work? ...Apr 79 9
Firearm identification - Competence or incompetence? ...Apr 79 12
Firearm identification - Evidence tests stump labs ...Apr 79 20
Firearm identification - History (article from 1963) ...Summer 99 285
Firearm identification - History ...Apr 89 263
Firearm identification - History ...Jul 79 44
Firearm identification - History ...Oct 79 97
Firearm identification - History ...Oct 80 38
Firearm identification - History ...Summer 99 266
Firearm identification - History to 1930 ...Jul 93 214
Firearm identification - History to 1930 ...Summer 99 225
Firearm identification - Image Enhancement and Databases ...Jul 91 876
Firearm identification - Individual characteristics criteria (overview) ...Spring 98 276
Firearm identification - Introduction ...Oct 93 281
Firearm identification - Lab Director's view of the field ...Apr 89 188
Firearm identification - Lab Director's view of the field ...Dec 76 59
Firearm identification - Malfunction worksheet ...Jan 83 100
Firearm identification - No-gun cases ...Jan 89 62
Firearm identification - Overview ...Apr 81 75
Firearm identification - Overview ...Apr 82 16
Firearm identification - Overview ...Apr 86 54
Firearm identification - Overview ...Apr 89 143
Firearm identification - Overview ...Jan 85 16
Firearm identification - Overview ...Jan 89 53
Firearm identification - Overview ...Jul 83 31
Firearm identification - Overview ...Jul 85 114

Firearm identification - Overview ...Oct 80 85
Firearm identification - Overview ...Oct 81 128
Firearm identification - Overview ...Oct 85 57
Firearm identification - Overview of case law ...Oct 81 134
Firearm identification - Passing the reliability test under federal and state evidentiary standards ...Spring 2003 209
Firearm identification - Uses and abuses of Forensic Science ...Jan 85 20
Firearm identification - Validity of evidence ...Apr 79 16
Firearm importer markings with business names and addresses ...Spring 00 169
Firearm reference collections ...Summer 01 219
Firearm reference collections, historical perspective ...Summer 99 291
Firearm/Toolmark identification: Passing the reliability test under federal and state evidentiary standards ...Spring 2003 209
Firearms - Accessories ...Apr 84 98
Firearms - Assault weapon legislation ...Spring 97 190
Firearms - Development ...Apr 84 85
Firearms - Evidentiary value of loaded firearms ...Dec 75 35
Firearms - Exploded views of firearms found in American Rifleman Magazine, index of ...Winter 03 81
Firearms - Index of firearm brand names and distributors from 1939 sporting goods trade directory ...Spring 2003 260
Firearms - Manufacture and proof marks ...Apr 84 94
Firearms - Manufacturers names - Cross reference ...Apr 90 210
Firearms - Types and functions ...Apr 84 89
Firearms - Types and mechanisms ...Apr 82 44
Firearms - Unmarked Stallard JS 9mm ...Fall 97 472
Firearms factory tours ...Fall 97 487
Firearms identification - Sometimes all is not as it seems ...Spring 2003 245
Firearms Import and Export - See **FIE**
Firearms Manufacturing Co. Inc. - Automatic pistol ...NLR 7 24
Firearms Report - Speaking Paper 1998 - 2001 ...Fall 2002 362
Firearms Report Review Paper - 1998-2001 ...Fall 2002 409
Firearms safety in the laboratory ...Winter 97 37
FireBall Firearm Identification System (computerized images) ...Summer 00 285
Fire-damaged firearm, identifications from ...Summer 99 376
Firing pin - .380 Auto class characteristics ...Apr 96 82
Firing pin - After-market ...Spring 97 175
Firing pin - Alteration ...Oct 91 908
Firing pin - Anvil bounce ...Oct 95 318
Firing pin - Anvil bounce ...Oct 96 243
Firing pin - Aperture concave - Firing pin aperture on Taurus Model PT92AFS ...Fall 01 334
Firing pin - Concave aperture - Firing pin aperture on Taurus Model PT92AFS ...Fall 01 334
Firing pin - Confusion of marks with ejector marks ...Oct 81 106
Firing pin - D shaped, Smith & Wesson Sigma pistol, Enhanced version ...Fall 99 498
Firing pin - Depth of impressions, Drop-fired or Fired and Dropped? ...Spring 00 154
Firing pin - Double firing pin strike, CZ, model 83 pistol ...Winter 99 36
Firing pin - Double on .22 ...Aug 72 43
Firing pin - Effect of rotation on Drugfire and IBIS ...Fall 99 443
Firing pin - Exotic types ...Aug 72 8
Firing pin - Hi-Standard - DM-101 - One striker: different impressions ...Jan 95 38
Firing pin - Hole drag ...Fall 98 658
Firing pin - Hole Marks ...Jul 91 803
Firing pin - Impression depth and pressure effects ...Jul 95 242
Firing pin - Impression depth and single or double action ...Jul 95 242
Firing pin - Impression depths ...Jul 81 79
Firing pin - Impression of one of a homemade firearm ...Oct 81 116
Firing pin - Impression on cylinder ...Mar 75 59
Firing pin - Impressions and blown primers ...Mar 76 13
Firing pin - Impressions, Rimfire, .22 caliber, Double ...Fall 98 655
Firing pin - List of firearms with rotating and non-rotating firing pins ...Fall 99 443
Firing pin - Manufacturing marks, Smith & Wesson ...Jul 84 51
Firing pin - Measurement and significance of impressions ...Oct 89 584
Firing pin - Measurement and significance of impressions ...Oct 89 590
Firing pin - Protrusion and depth measurement of impressions ...Jul 90 295
Firing pin - Pseudo-3D approach for exam using comparison microscope ...Fall 97 470

Firing pin - Rectangular on centerfire ...NLR 11 35
Firing pin - Rectangular on centerfire ...NLR 3 31
Firing pin - Rectangular on centerfire ...NLR 4 35
Firing pin - Rectangular on centerfire ...NLR 6 11
Firing pin - Rimfire impressions, examples ...Jul 83 85
Firing pin - Rotating firing pins and casting for identifications ...Winter 97 59
Firing pin - Rotation ...Apr 81 18
Firing pin - Striations Colt D.A. 38 revolver ...Oct 91 968
Firing pin - Use of duplex nail in Intratec TEC-9 ...Jan 96 15
Firing pin block - See **Safeties**
Firing sequence - Determined by cartridge case marks ...Jul 95 237
Fish scales breechface marks ...Fall 97 494
Flammable liquids introduced into the cylinder of spring piston air rifle may cause dieseling ...Spring 2003 167
Flare gun modified to shotgun ...Oct 81 25
Flares - See also Gunshot residues
Flares, Aerial ...Apr 79 80
Flexitab - See **Remington**
Flobert bullet, 9mm ...Fall 2002 396 with peer comments Spring 2003 145
Florida Firearms Corp. - Pistol ...Jul 76 21
Florida-Georgia Firearm Examiners Training Class: An Overview ...Spring 01 161
Fluorescent lighting system, high intensity, for comparison scope, building ...Winter 97 49
FMJ - Kit derringer ...Summer 98 518
FN - Model P-90 (5.7x28mm, 31 grain, SS-190 FMJ bullet) ...Summer 02 302
FN - See **Fabrique Nationale**
Foot prints - See **Shoe prints**
Forcing cone - Marks on shotgun shell ...Apr 81 31
Forehand and Wadsworth - Class characteristics ...Dec 72 11
Forehand Arms Co. - Revolver grips ...Feb 74 27
Foreign language translations ...Oct 81 69
Forensic aspects of spherical projectiles ...Winter 98 102
Forensic aspects of the Air Taser ...Winter 98 108
Forensic Buddy on Trial ...Fall 01 359
Forensic sciences - Firearm and Toolmark Identification as a discipline ... Jul 80 12
Forensic sciences - General ...Jan 84 40
Foreshortening of toolmark striae ...Spring 98 271
Forms - See **Worksheets**
Four in one cartridge, .44 ...Winter 01 60
Fox carbine ...Jul 77 119
Foxco - Semiautomatic carbine and automatic conversion ...Apr 80 30
FPC - See Super Vel
FPK - See Romania
Fracture comparisons - See **Physical match**
Fractures - Circumferential ...Jul 91 806
Frame lug malfunction ...Jul 88 319
France - FAMAS rifle ...Jan 95 17
Franchi - Model LAW 12 shotguns **Safety warning** ...Jan 90 87
Franchi - Model LAW 12 shotguns **Safety warning** ...Jul 91 801
Franchi - Model SAS 12 shotguns **Safety warning** ...Jan 90 87
Franchi - Model SAS 12 shotguns **Safety warning** ...Jul 91 801
Franchi - Model SPAS 12 shotguns **Safety warning** ...Jan 90 87
Franchi - Model SPAS 12 shotguns **Safety warning** ...Jul 91 801
Frangible bullets - Federal BallistiClean ...Winter 99 53
Frangible bullets - Green bullet, U. S. Military ...Fall 99 493
Frangible bullets - Overview, contemporary ...Summer 99 344
Frangible bullets - Wounding potential and other forensic concerns, Firearms Report Review Paper - 1998-2001 ...Fall 2002 409
Frangible bullets ...Apr 84 106
Frangible bullets ...Jul 80 36
Frangible bullets ...Spring 98 340
Frye - Passing the reliability test under federal and state evidentiary standards ...Spring 2003 209
Frye tests - Daubert criteria for admissibility ...Winter 98 3
Frye tests - Transcript of Professor James Starrs in Frye hearing of bunter identification ...Winter 98 186

Fry's reagent, used on bullets to enhance identification ...Spring 97 197
FTIR, used to examine shotshell buffers ...Summer 00 277
FTL - .22 pistol ...Apr 85 65
Full Auto conversions - See **Automatic conversions**
Full automatic firearms - Rates of fire ...Summer 00 252
Fulton Arms - Model SSR-6 ...Jan 95 65
Fulton Arms - See also Dan Wesson Arms
Fur coat matched to photo ...Jul 75 66
G&S - Ammunition ...Jan 82 40
G. F. L. - See **Fiocchi**
Gain rifling ...Apr 85 100
Galil - ejector comparisons after extended firing ...Jan 92 37
Galil rifle ...Apr 74 16
Galil, predecessor of MAGAL semiautomatic assault rifle ...Winter 03 72
Garbage bags - See **Plastic bags**
Garcia - Bronco .22 ...Apr 74 18
Gas billy - Lake Erie Detective Gas Billy - Model D-35 ...Winter 99 20
Gas containment in bolt action rifles ...Oct 92 375
Gatling gun ...Apr 88 185
Gearhart-Owens Industries - Black powder producer ...Apr 74 13
Gecado ...NLR 3 27
GECO - .38 Special leading problems ...Apr 83 16
GECO - 9mm Ultra ...Jul 75 53
GECO - Sintox ...Apr 83 10
Gelatin, ordnance - Calibration of blocks ...Jul 89 483
Gelatin, ordnance - Correlations of ...Jan 93 2
Gelatin, ordnance - Custom molds for ...Summer 02 321
Gelatin, ordnance - Custom molds for, Update ...Fall 02 358
Gelatin, ordnance - Formulation ...Oct 87 402
Gelatin, ordnance - Testing ...Oct 91 943
Gelatin, ordnance - Testing procedures ...Apr 93 87
German firearms - Serial numbers ...Aug 72 20
German manufacturers ...NLR 5 11
Germany - Maschinengewehr 08/15 machine gun ...Summer 01 256
Germany - Sturmgewehr - Model MP-43 ...Jul 95 220
Germany - Volksgewehr VG 1 rifle ...Jul 93 237
GIAT - See **France** (FAMAS rifle)
Glaser - Safety ammunition, wounding characteristics, three cases, Firearms Report Review Paper - 1998-2001 ...Fall 2002 409
Glaser - See **Glazer**
Glaser Safety Slug - Identification of ...Winter 03 79
Glass - Automobile, bullet impacts and trajectories, fracture patterns ...Apr 93 79
Glass - Bullet hole patterns ...Oct 82 75
Glass - Bullet holes ...NLR 10 14
Glass - Bullet resistant, tests of ...NLR 10 31
Glass - Bullet trajectory determination ...Spring 98 309
Glass - Comparison SEM ...Apr 83 47
Glass - Comparison SEM ...Jul 83 141
Glass - Comparisons ...NLR 8 19
Glass - Crescent shaped fractures from bullets yield trajectory ...Spring 98 309
Glass - Fractures caused by thermal break or mechanical impact ...Summer 99 370
Glass - Glass Cutter Impression Identification ...Oct 91 925
Glass - Marks on fracture edges ...NLR 11 19
Glass - Physical match ...Apr 88 154
Glass - Safety, Bullet impact position on ...Apr 94 107
Glass - Stabilization of fractures ...Oct 90 440
Glass - Tempered glass and effects on bullet trajectory ...Jul 83 29
Glass - Tempered, sequence of shots ...Apr 83 114
Glass - Underwater firing of a 950B at a glass target ...Fall 00 354
Glass - Windshield, back spatter from bullets ...Summer 98 445
Glass target - Phenomena attending flight of .315"/8mm projectile ...Fall 2002 368
Glazer - Safety slug ...Apr 84 107

Glazer - Safety slug ...Jul 86 100
Glock - 9mm ...Jul 87 279
Glock - Accidental discharge ...Jul 93 206
Glock - Accidental discharge by key on gunbelt when holstering ...Summer 97 294
Glock - Barrels, aftermarket ...Fall 98 640
Glock - Class characteristics compared to Smith & Wesson SW40F (Sigma) ...Apr 95 133
Glock - Compensated pistol, Identification of bullets ...Fall 01 333
Glock - Electronic spark reduction to mark barrels to aid bullet identification ...Spring 97 232
Glock - Electronically etched barrels for identification ...Spring 97 197
Glock - Model 17 ...Apr 87 178
Glock - Model 17 and Model 22 ...Apr 92 172
Glock - Model 17 fired underwater ...Apr 88 126
Glock - Model 19 **Safety warning** ...Apr 90 227
Glock - Model 19, 9mm Luger caliber, Serial number prefix AN, BP, BR, BV, BW, BX, DL, DM, DN, DP, DR, DS, DT, DV, DW, DX, DY, & DZ - **Safety warning** ...Winter 02 65
Glock - Model 19, barrel failure (not a Glock barrel) - **Safety warning** ...Summer 02 310
Glock - Model 26, 9mm caliber, Serial number prefix DGU, DHR, & DKU - **Safety warning** ...Winter 02 64
Glock - Model 27, .40 S&W caliber, Serial number prefix DGD, DGV, DHS, DHT, DKV, DKW, & DKX - **Safety warning** ...Winter 02 64
Glock - Polygonal barrel sub-family characteristics, identification of ...Spring 2003 197
Glock - Ported pistol, Identification of bullets ...Fall 01 333
Glock - Serial number and rifling info ...Jul 92 314
Glock - Takedown tool from Brownell's ...Oct 90 453
Glock - Test fired cartridge cases supplied by manufacturer are incorrect ...Spring 2003 195
Glock - with Accu-Match barrel and silencer ...Winter 98 123
Glossary - Foreign language translations ...Oct 81 69
Glossary - Nomenclature of firearms and components ...Apr 92 185
Glossary - Part 1 ...Apr 74 28
Glossary - Part 2 ...Jun 74 20
Glossary - Part 3 ...Aug 74 21
Glossary, Materials Terminology ...Fall 98 663
GOEX - Clear Shot powder (black powder substitute) - Physical and chemical properties and performance ...Fall 01 313
Golden Powder (black powder substitute) - Physical and chemical properties and performance ...Fall 01 313
Golden West - Model 781DL **Recall** ...Jan 82 6
Gradoga - Pistol ...Jul 76 21
Grand Slam cartridge ...Apr 91 679
Grease gun, M3 ...Jan 89 74
Green bullet, U. S. Military ...Fall 99 493
Grenade launchers - Muzzle attachments for firearms ...Winter 99 22
Grendel - Model P-10 ...Jan 89 82
Grendel - Model P-10 Semiautomatic Pistol ...Oct 89 609
Grendel - Model P12 - Breechface marks in sunburst pattern ...Jul 95 202
Grendel - Model P30 pistol ...Apr 93 108
Grex shotshell buffers, analysis and comparison ...Summer 00 277
Griffin's reagent for stainless steel serial number restoration...Fall 99 497
Grip logos ...Jan 86 52
Grip safety - See **Safeties**
Groza - See **Russia**
Guardian - .25 automatic ...NLR 7 24
Gun Buyback program ...Oct 92 358
Gun Control ...NLR 1 last
Gun in the Case, The - Book review ...Winter 00 40
Gunfire acoustics - See **Acoustics**
Gunfire as a hazard to fetal development ...Winter 00 25
Gunfire noise - See **Acoustics**
Gunpowder - .25 Auto ammo variations ...Spring 98 255
Gunpowder - Augusta Powder Works, History ...Apr 74 8
Gunpowder - Chemical aspects ...Oct 90 364
Gunpowder - Chemistry ...Oct 85 57
Gunpowder - Effect of powder load and bullet material on an identification ...Summer 00 271
Gunpowder - Embedded in bullets ...Apr 90 110

Gunpowder - Green and somewhat "T" shaped ...Mar 75 63
Gunpowder - Hangfires ...Apr 91 660
Gunpowder - Identification of ...Oct 83 42
Gunpowder - Imprints on bases of bullets ...Apr 80 26
Gunpowder - Manufacture ...Apr 91 682
Gunpowder - Overview ...Jul 82 63
Gunpowder - Particle with rifling marks ...Apr 91 657
Gunpowder - Reduced powder loads ...NLR 3 14
Gunpowder - Reference collections ...Summer 01 219
Gunpowder - Scot ...Jan 90 55
Gunpowder - Stabilizers in Soviet ammunition ...Jan 89 42
Gunpowder - Tagging ...Apr 79 62
Gunpowder - Tagging ...Apr 89 223
Gunpowder - Toolmarks on smokeless powder grains ...Mar 76 19
Gunpowder - Toolmarks on smokeless powder particles ...Spring 00 162
Gunpowder - Walking cane made from single extrusion ...Sep 78 9
Gunpowder reference collections ...Summer 01 219
Gunpowder residues - **See Gunshot Residues**
Gunshot residues - .25 Auto ammo variations ...Spring 98 255
Gunshot residues - Adhesive lifts and swabbing ...Jul 93 163
Gunshot residues - Admissibility of Atomic Absorption test ...Oct 79 123
Gunshot residues - Alternative modified Griess test paper ...Spring 2003 243
Gunshot residues - Analysis by SEM or FAAS ...Oct 81 93
Gunshot residues - Antazoline Hydrochloride test ...Apr 82 87
Gunshot residues - Barrel length determination ...Jul 84 16
Gunshot residues - Barrel length vs. Powder type ...Jul 90 318
Gunshot residues - Barrel length vs. Shot/powder dispersion ...Jan 82 29
Gunshot residues - Blank cartridges, discharge residues ...Apr 89 406
Gunshot residues - Blank cartridges, discharge residues ...Oct 86 33
Gunshot residues - Bleeding as a source of lead particulates on clothing ...Oct 94 269
Gunshot residues - Blood effects ...Apr 83 102
Gunshot residues - Blood extraction, trace evidence retention ...Jul 92 304
Gunshot residues - Blood removal ...Jan 94 26
Gunshot residues - Blood removal from fabric ...Apr 94 155
Gunshot residues - Bloody Garments, Method to improve GSR pattern ...Jul 91 808
Gunshot residues - Buffers, shot ...Apr 83 26
Gunshot residues - Buffers, shot ...Apr 83 31
Gunshot residues - Calcium reacting to Sodium Rhodizonate test ...Apr 90 149
Gunshot residues - Cloth test material ...Apr 81 55
Gunshot residues - Collection of GSR and chemographic testing of lead-free Sintox ammo ...Spring 2003 152
Gunshot residues - Color test of bullet residue inside bore ...Jan 80 60
Gunshot residues - Comet tailing (Speer - Lawman, 9mm, 147 grain) ...Fall 01 336
Gunshot residues - Compared to Trace Metal Detection Tests ...Oct 79 122
Gunshot residues - Concealing GSR particles by skin debris using tape-lift method, Firearms Report Review Paper - 1998-2001 ...Fall 2002 409
Gunshot residues - Contamination from iron ...Jul 82 11
Gunshot residues - Deposited on cartridges in a revolver ...Fall 00 346
Gunshot residues - Diamond pattern ...Winter 98 126
Gunshot residues - Disinfectants yield Griess positives ...Oct 83 35
Gunshot residues - Effects of dual ignition of rimfires ...Apr 80 21
Gunshot residues - Effects of variables on patterns ...Apr 81 35
Gunshot residues - Effects of variables on the appearance of gunshot depositions (9mm Luger ammo.) ...Summer 98 462
Gunshot residues - Ejection port ...Apr 79 44
Gunshot residues - Enhanced Griess and Sodium Rhodizonate tests ...Apr 85 118
Gunshot residues - Entrance and exit wounds ...Jul 77 157
Gunshot residues - Environmental and occupational origin of particles, Firearms Report Review Paper - 1998-2001 ...Fall 2002 409
Gunshot residues - Evaluation of tests ...Apr 89 345
Gunshot residues - Expectations regarding gunpowder depositions ...Winter 98 94
Gunshot residues - Fang marks ...Oct 93 292
Gunshot residues - Flameless Atomic Absorption Spectrophotometry ...Jul 87 253
Gunshot residues - Flares ...Apr 79 61

Gunshot residues - Focused ion beam systems, Firearms Report Review Paper - 1998-2001 ...Fall 2002 409

Gunshot residues - Griess and Modified Griess test protocols ...Winter 01 29

Gunshot residues - Griess and Sodium Rhodizonate tests simplified ...Winter 01 37

Gunshot residues - Griess test modification (steam iron) ...Apr 87 165

Gunshot residues - Griess test, Improving on Bloody Garments ...Jul 91 808

Gunshot residues - Griess test, modification of chemical sequences ...Oct 91 940

Gunshot residues - Gunpowder embedded in bullets ...Apr 90 110

Gunshot residues - Halo effect ...Jun 78 17

Gunshot residues - Infrared microscopy ...Jan 81 21

Gunshot residues - Law enforcement Technologies Inc. ISID-1 "Instant Shooter ID Kit", evaluation of ...Fall 2002 404

Gunshot residues - Lead deposits on window screen ...Apr 79 43

Gunshot residues - Lead detection using Sodium Rhodizonate ...Aug 74 5

Gunshot residues - Lead in fingerprint powders ...Jul 84 134

Gunshot residues - Lead residue test, change of applicatn sequence ...Oct 91 940

Gunshot residues - Lead residue tests ...Oct 82 65

Gunshot residues - Lead, Barium and Antimony testing ...Apr 86 49

Gunshot residues - Lighting during examinations ...Jul 83 27

Gunshot residues - Machine washing or brushing clothing, effects of, Firearms Report Review Paper - 1998-2001 ...Fall 2002 409

Gunshot residues - Magazine tube mark on skin ...Apr 81 21

Gunshot residues - Mag-na-port residues from S&W 357 Magnum ...Oct 91 903

Gunshot residues - Marijuana, positive reaction to Griess ...Jul 84 9

Gunshot residues - Metallic residues in wounds ...Jul 77 31

Gunshot residues - Microchemical test for copper bullet wipe ...Apr 89 298

Gunshot residues - Microchemical test for copper bullet wipe ...Jul 81 22

Gunshot residues - Miscellaneous notes ...Apr 89 152

Gunshot residues - Mock testimony ...Summer 00 231

Gunshot residues - Modification in chemical application sequence ...Oct 91 940

Gunshot residues - Modified Griess test ...Jul 90 243

Gunshot residues - Modified Griess test paper, alternative ...Spring 2003 243

Gunshot residues - Nitrite detection kit ...Sep 78 26

Gunshot residues - Nitrites examination ...Jan 79 32

Gunshot residues - Overview ...Jul 84 63

Gunshot residues - Overview ...Jul 87 247

Gunshot residues - Overview ...Oct 81 129

Gunshot residues - Overview ...Oct 82 25

Gunshot residues - Paper, alternative for modified Griess test ...Spring 2003 243

Gunshot residues - Pellet pattern counting aid ...Jul 83 24

Gunshot residues - Persistence of gunshot residue on shooters' hands, Firearms Report Review Paper - 1998-2001 ...Fall 2002 409

Gunshot residues - Phenyltrihydroxyfluorone used for antimony residues ...Jan 96 25

Gunshot residues - Plastic overlay ...Jul 84 74

Gunshot residues - Powder caught behind mushroomed jacket ...Oct 79 21

Gunshot residues - Powder residue tests ...Oct 82 65

Gunshot residues - Problems ...Mar 78 4

Gunshot residues - Problems in detection (blood soaking) ...Apr 95 105

Gunshot residues - Problems in detection (environmental and climatic conditions) ...Apr 95 105

Gunshot residues - Protocol for examinations ...Jul 90 257

Gunshot residues - Protocol for shot patterns ...Jan 91 511

Gunshot residues - Raman microscopic identification of gunshot residues, Firearms Report Review Paper - 1998-2001 ...Fall 2002 409

Gunshot residues - Reference ammunition for gunshot residue testing ...Fall 00 332

Gunshot residues - Retesting of sample kits ...Jul 92 306

Gunshot residues - Role of firearm examiner ...Apr 89 293

Gunshot residues - Rubber automobile tire ...Fall 97 469

Gunshot residues - Scientific methods, advances in - Firearms Report - Speaking Paper 1998 - 2001 ...Fall 2002 362

Gunshot residues - See also Distance determination

Gunshot residues - See also Primer residue

Gunshot residues - SEM identification ...Apr 90 135

Gunshot residues - Sequence of tests ...Winter 99 3

Gunshot residues - Single wipe test for nitrite, lead, and copper ...Jul 92 254

Gunshot residues - Skin simulants for distance determinations ...Spring 00 136

Gunshot residues - Smoke rings - See **Gunshot residues - Flares**

Gunshot residues - Sodium Rhodizonate and Griess tests simplified ...Winter 01 37

Gunshot residues - Sodium Rhodizonate test ...Jul 90 251
Gunshot residues - Sodium Rhodizonate/change in applicatn sequence ...Oct 91 940
Gunshot residues - Sodium Rhodizonate/improving on bloody garments ...Jul 91 808
Gunshot residues - Sources of lead ...Summer 01 212
Gunshot residues - Spherical lead particles originate from bullet ...Jan 91 535
Gunshot residues - Square patterns ...Winter 97 31
Gunshot residues - Stippling/Tattooing vs. Powder Burning ...Spring 00 178
Gunshot residues - Target materials ...Mar 77 59
Gunshot residues - Tattoo examinations ...Oct 82 59
Gunshot residues - Test cloth ...Jul 79 56
Gunshot residues - Test firing equipment ...Oct 83 11
Gunshot residues - Test materials ...Oct 79 25
Gunshot residues - Time since discharge ...Jul 94 216
Gunshot residues - Titanium and zinc particles in samples collected from suspects, Firearms Report Review Paper - 1998-2001 ...Fall 2002 409
Gunshot residues - Trail left behind bullets ...Oct 74 20
Gunshot residues - Unusual powder pattern results ...Jan 88 61
Gunshot residues - Vaporized lead from bullet impact with intermediate target ...Jan 95 43
Gunshot residues - Variable pressure scanning electron microscopy, Firearms Report Review Paper - 1998-2001 ...Fall 2002 409
Gunshot residues - Weathering/time factors ...Jul 89 500
Gunshot residues - Wind velocity effects ...Jul 77 139
Gunshot residues - Worksheets ...Winter 97 61
Gunshot residues - Wounds ...Jan 80 11
Gunshot residues - X-Ray microfluorescence spectrometry, Firearms Report Review Paper - 1998-2001 ...Fall 2002 409
Gunshot residues ...NLR 4 37
Gunshot residues ...NLR 4 39
Gunshot residues ...Oct 72 17
Gunsmithing data - Foxfire 5 (source) ...Apr 81 15
Gutowski, Inc. - Zee bullets, lead-free, cast zinc ...Spring 01 149
Gyroscopic effect - See **Ballistics, external**
H & K - See **Heckler & Koch**
H & R - See **Harrington & Richardson**
Haemo-Sol - A blood extractant used for improving GRS on garments ...Jul 91 808
Hakim - Cartridge case marks ...Apr 88 200
Half load, effect of powder load and bullet material on an identification ...Summer 00 271
Halo effect ...Jun 78 17
Hamilton, Amos, death of ...Winter 01 50
Hammer block - See **Safeties**
Hammer, rebounding - See **Safeties**
Handloading - See **Reloading**
Hangfires ...Apr 91 660
Hansen - .22 ammunition ...Apr 85 67
Hansen Cartridge Company - Poong San Ammunition ...Jul 81 116
Hardening processes for metals ...Summer 01 233
Hardness values of selected .40 S&W primers ...Spring 2003 204
Harrington & Richardson - .32 H&R Magnum - overview ...Jul 89 516
Harrington & Richardson - 1905 - Two with same serial number ...Dec 75 81
Harrington & Richardson - Military training rifle, .22 ...Apr 85 95
Harrington & Richardson - Serial numbers ...Jul 75 94
Harrington & Richardson - Serial numbers ...NLR 20 24
Harrington & Richardson - Serial numbers ...Oct 72 22
Harrington & Richardson - Starter revolver modified ...Jul 87 303
Haskell Firearms - .45 ACP pistol ...Jan 92 75
Haskell Firearms - Primer indentations on unfired cartridges ...Jan 95 61
Haskell Firearms - See also Strassell Machine
Hatcher, Julian S. - Biography ...Apr 89 438
Hawes ...NLR 3 27
Hawk Cartridges - 375 Hawk-Scovill ...Fall 01 373
Hawk Cartridges - 411 Hawk ...Fall 01 373
Hazardous ammunition - "HP" on headstamp ...Spring 97 173
Headstamp - +P ...Apr 74 10

Headstamp - +P ...Apr 74 14
Headstamp - 11 ...Apr 83 9
Headstamp - 11 90 ...Jan 94 37
Headstamp - 261 with overlaid U ...NLR 10 32
Headstamp - 3 97 ...Spring 2003 242
Headstamp - 3D overstamp ...Jul 95 259
Headstamp - 44 AFF 4 in 1 ...Winter 01 60
Headstamp - 7.62 x 39mm cartridges ...Winter 98 124
Headstamp - 711 94 ...Fall 98 662
Headstamp - 9mm LUGER ...Jul 80 76
Headstamp - A ...NLR 20 37
Headstamp - A [Aguila] ...Summer 01 276
Headstamp - A with a dot ...Summer 00 296
Headstamp - A with dot ...Apr 91 659
Headstamp - AMRON ...NLR 7 31
Headstamp - Arabic ...Apr 83 64
Headstamp - AREX ...Fall 01 373
Headstamp - Asterisk-Line-Asterisk [Starline] ...Summer 01 282
Headstamp - B, .22 cal. ...Feb 73 27
Headstamp - Browning ...Jun 73 26
Headstamp - Bunter information from major ammunition makers ...Winter 00 56
Headstamp - Bunter manufacturing by Electrical discharge machining ...Winter 00 16
Headstamp - Bunter marks examined from a production run ...Spring 00 164
Headstamp - Bunter marks on Consecutively made cartridge cases ...Fall 2002 407
Headstamp - Bunter toolmarks ...Spring 98 334
Headstamp - Bunters consecutively manufactured by EDM ...Winter 00 49
Headstamp - C (used by Magnum Performance Ballistics) ...Summer 00 296
Headstamp - C, .22 cal. ...Feb 73 12
Headstamp - CAC [Casull Arms Corp.] ...Summer 01 282
Headstamp - CB & A ...Fall 01 373
Headstamp - CCI in 3 diamonds [CCI] ...Summer 01 282
Headstamp - CgT ...Fall 01 373
Headstamp - Chi-Com ...Jul 91 874
Headstamp - Ci ...Apr 79 87
Headstamp - Circle with saturn-like ring ...Apr 83 9
Headstamp - Circle, cross, central dot, .22 cal. ...Oct 73 27
Headstamp - Circles, intertwined ...Apr 83 9
Headstamp - Computerization ...Oct 85 7
Headstamp - Concentric circles with quarter lines ...NLR 8 22
Headstamp - Cross that does not meet in the center in a four segment circle ...Summer 00 296
Headstamp - Cyrillic nnY (=PPU) ...Apr 85 87
Headstamp - D 9 T 65 ...Mar 77 28
Headstamp - D with dot ...Jul 76 15
Headstamp - Desert Storm ...Apr 93 110
Headstamp - Egyptian ...Apr 90 226
Headstamp - ELD ...Oct 90 443
Headstamp - Eldorado Cartridge Corp. ...Oct 90 443
Headstamp - Famae ...Oct 73 27
Headstamp - Fancy W, .22 cal. ...NLR 20 36
Headstamp - FAP ...Fall 01 373
Headstamp - Federal ...Jul 91 875
Headstamp - Five pointed star ...Summer 00 296
Headstamp - French small arms ...NLR 19 26
Headstamp - GECO ...Jun 73 10
Headstamp - HI-YO REA AWAAAY ...Oct 74 8
Headstamp - HP ...Jul 75 57
Headstamp - HUNTSMAN ...NLR 20 37
Headstamp - Illustrated ...Oct 83 92
Headstamp - IMI ...Jan 90 40
Headstamp - Impressions in oily residue ...Jul 87 300
Headstamp - Interpol headstamp guide ...Dec 76 73

Headstamp - Interpol headstamp guide ...Jul 76 112
Headstamp - Interpol lists corrected ...Oct 81 102
Headstamp - IVI (with a small letter above the "V") ...Jul 91 874
Headstamp - K ...Apr 85 87
Headstamp - L in shield ...NLR 20 36
Headstamp - L Y ...Jul 91 874
Headstamp - Lapua ...Oct 73 27
Headstamp - LC (from China) ...Jul 93 204
Headstamp - Libra overstamp ...Jul 95 259
Headstamp - LVE 01 9mm Luger ...Spring 2003 242
Headstamp - LVE 01 9x17K 380ACP ...Spring 2003 242
Headstamp - MAC 380 SMG ...Aug 72 35
Headstamp - MAL ...Jan 90 40
Headstamp - MEN-76 9x19SP ...Jan 80 40
Headstamp - MFS ...Oct 93 254
Headstamp - Outline of bee ...Oct 79 115
Headstamp - Oval with 4 lines, .25 rimfire ...NLR 15 14
Headstamp - OWS ...Summer 00 296
Headstamp - PAPA 9mm ...Jul 95 261
Headstamp - PMP, Pretoria Metal Pressings ...Spring 00 180
Headstamp - Powder actuated tool charges ...Mar 76 53
Headstamp - PP ...Apr 85 87
Headstamp - PPU ...Apr 85 87
Headstamp - PP-YU ...Apr 85 87
Headstamp - PS ...Fall 01 373
Headstamp - Qual-Cart ...Fall 01 373
Headstamp - Remington (U to Rem) ...Jul 83 18
Headstamp - RP 9 LUGER ...Jul 95 261
Headstamp - Russian ...Oct 90 419
Headstamp - Russian ...Summer 99 369
Headstamp - S & B overstamp ...Jul 95 259
Headstamp - S B 38 SPL ...Oct 79 115
Headstamp - S&W 9X19 '99 ...Fall 01 373
Headstamp - Saturn, .22 cal. ...Oct 73 27
Headstamp - SB 38 SPL ...Jan 79 36
Headstamp - SB in three diamonds, .22 Short ...Oct 73 27
Headstamp - SBMC 30 CARBINE ...Oct 79 115
Headstamp - Schonebeck -12- ...Spring 2003 242
Headstamp - Schönebeck -12- ...Spring 2003 242
Headstamp - See also Bunters
Headstamp - Sellier & Bellot 12 ...Spring 2003 242
Headstamp - Singapore manufacture ...Feb 74 21
Headstamp - Sintox ...Apr 83 10
Headstamp - SPEER 357SIG S [improved version] ...Fall 01 338
Headstamp - Square shaped D ...Oct 79 115
Headstamp - Star+line+star (Starline) ...Jan 83 68
Headstamp - Starfire ...Oct 90 443
Headstamp - Swedish Training Cartridge - Plastic bullet with a steel BB ...Spring 02 206
Headstamp - T ...Jan 79 36
Headstamp - T ...Jul 77 226
Headstamp - T on .22 ...Oct 79 115
Headstamp - Triangle ...Apr 83 9
Headstamp - Triangle ...Jan 83 65
Headstamp - Triangle with V ...Jul 75 33
Headstamp - Two different headstamps in same box (Remington) ...Oct 82 12
Headstamp - TZ ...Jan 90 40
Headstamp - TZZ ...Jan 90 40
Headstamp - V on .41 short rimfire ...Oct 79 115
Headstamp - Various ...Jul 90 346
Headstamp - Winchester subsonic ...Jan 91 510
Headstamp - Z-HATIQUAL CART ...Fall 01 373

Headstamp - ZP ...Jan 83 65
Headstamps - 6.45x39 Wolf ...Spring 2003 242
Hearing loss - See **Acoustics**
Heat ignition of cartridges - See **Cook-off**
Hebsacker - Gas revolver ...Jul 75 35
Hebsacker Gesellschaft - Hege AP66 pistol ...Mar 75 48
Heckler & Koch - 9x19mm firearms - various models ...Oct 95 297
Heckler & Koch - Bullet identification from USP polygonal barrels ...Summer 97 307
Heckler & Koch - Markings on bullet ...Jul 87 310
Heckler & Koch - Model 4 - Class characteristics ...Apr 73 19
Heckler & Koch - Model 4 - Class characteristics ...Oct 73 23
Heckler & Koch - Model 4 ...Apr 73 19
Heckler & Koch - Model 4 ...Oct 73 23
Heckler & Koch - Model 41 ...NLR 17 23
Heckler & Koch - Model 9 and Model 9s pistols ...Apr 74 16
Heckler & Koch - Model 94, automatic conversion ...Jul 90 302
Heckler & Koch - Model MP-5, Wounding effects with the 9mm 147gr. JHP bullet ...Spring 98 330 & Peer review ...Summer 98 560
Heckler & Koch - Model P7 PSP ...Oct 81 37
Heckler & Koch - Model USP ...Jan 95 49
Heckler & Koch - Model VP70Z ...Jul 84 108
Heckler & Koch - Polygonal barrel sub-family characteristics, identification of ...Spring 2003 197
Heckler & Koch - Polygonal rifling ...Jul 77 45
Heckler & Koch - Rifling ...Oct 81 52
Hege - Model AP66 ...Apr 81 27
Hege - Model AP66 .32 ACP ...Mar 75 48
Helixometer, history of ...Spring 02 186
Helwan - 9mm pistol copied by Danshway ...Jul 92 311
Helwan - Arcs on breechfaces ...Jul 95 213
Helwan - See also Beretta
Herbert Schmidt - Other names ...NLR 20 17
HHC Ltd. - Various calibers ...Apr 85 86
Hiawatha - 587 ...Jan 82 6
High Speed Photography - See also Photography
High speed photography system ...Fall 01 339
High Standard - Model DM-101 - Firing pin impressions ...Jan 95 38
High Standard - Sears stock numbers ...Jun 78 54
High Standard - Serial numbers ...Jun 73 16
Hi-Jacker cartridge ...Mar 77 39
Hilti - Stud gun (nail driver) inquiry ...Apr 82 6
Hi-Point - See **BEE Miller** or **Strassell Machine**
Hirtenberg - Ammunition sold by Sears and Federal ...Aug 74 14
Hirtenberg - Brass finished rimfire bullets ...Sep 78 22
Hirtenbirger - 9mm Police cartridge ...Jul 75 57
Hirtenbirger - 9x18mm cartridge Ultra ...Mar 75 20
History - AFTE ...Apr 79 84
History - AFTE Journal ...Spring 02 210
History - AFTE Peer Review ...Spring 02 210
History - Arms and ammunition development ...Apr 82 31
History - ATF ...Apr 85 15
History - Barcodes and their decryption ...Summer 02 264
History - Black powder ...Oct 87 443
History - Brownsville riot ...Oct 86 65
History - Cartridge date of origin ...Jul 93 157
History - Churchill Lecture - Forensic Examinations ...Apr 87 188
History - Churchill vs. Burrard ...Apr 87 181
History - Comparison microscope ...Apr 89 215
History - Comparison microscope ...Jan 89 67
History - Comparison microscope ...Mar 78 7
History - Comparison microscopes ...Spring 02 186
History - Court testimony ...Oct 84 35
History - Derringer pistol ...Jul 85 91

History - Detonics history and product history ...Fall 01 354
History - Expert's qualifications ...Jul 85 119
History - Fingerprinting bullets (article from 1925) ...Summer 99 242
History - Firearm Identification - General ...Apr 82 17
History - Firearm Identification - General ...Jan 84 52
History - Firearm Identification - General ...Jan 89 53
History - Firearm Identification - General ...Jul 85 114
History - Firearm Identification - General ...Jul 87 289
History - Firearm Identification - Specific ...Jan 85 55
History - Firearm Identification (article from 1963) ...Summer 99 285
History - Firearm Identification ...Apr 89 263
History - Firearm Identification ...Jul 79 44
History - Firearm Identification ...Jul 93 214
History - Firearm Identification ...Oct 79 97
History - Firearm Identification ...Oct 80 38
History - Firearm Identification ...Summer 99 266
History - Firearm Identification to 1930 ...Summer 99 225
History - Firearm reference collections, historical perspective ...Summer 99 291
History - Firearms identification ...Spring 02 186
History - Gatling gun ...Apr 88 185
History - Hadley vs.. Arizona ...Dec 73 5
History - Hatcher, Julian S. - Biography ...Apr 88 129
History - Hatcher, Julian S. - Biography ...Apr 89 438
History - Helixometer ...Spring 02 186
History - Index of firearm brand names and distributors from 1939 sporting goods trade directory ...Spring 2003 260
History - Laboratory of Col. Goddard ...Jul 85 100
History - Miscellaneous footnotes ...NLR 9 4
History - Miscellaneous footnotes correction ...NLR 10 7
History - Ordnance Department ...Apr 88 174
History - Plus P Cartridges ...Jul 77 211
History - Remington Slide action shotguns ...Apr 89 453
History - Revolver safeties ...Apr 89 309
History - Revolver safeties ...Oct 82 29
History - Sacco and Vanzetti case ...Jan 87 37
History - Sacco and Vanzetti case ...Jul 85 13
History - Simonov Carbine ...Oct 91 966
History - Soviet 7.62 x 39mm Intermediate Cartridge ...Oct 91 966
History - Striation matching ...Jul 80 31
History - Valentine day massacre ...Jan 80 44
History - White Laboratory ...Jul 87 284
HIVAP ...NLR 8 11
HJS Industry Inc. - Sharps four barrel pistol - Unintentional discharge ...Jan 96 55
HK - See **Heckler & Koch**
Holder for small items ...Jul 87 318
Holography - Bullet comparison methods ...Oct 80 81
Homemade firearm - .22 caliber, double barrel ...Fall 97 461
Homemade firearm - .30-30 pipe gun ...Jun 78 44
Homemade firearm - .357 Magnum ...Summer 01 259
Homemade firearm - .38 Spl ...Jul 75 107
Homemade firearm - .45 in pipe ...Oct 81 29
Homemade firearm - 12 gauge pipe gun ...Jul 77 203
Homemade firearm - 12 gauge pipe gun ...Jul 81 16
Homemade firearm - Air gun modification to .22 cal. ...Fall 97 496
Homemade firearm - Alarm pistol (Bruny) modified ...Jan 89 89
Homemade firearm - Alarm pistols modified to fire 9mm K. (.380 ACP) ...Fall 2002 401
Homemade firearm - Beer can bazooka ...Apr 89 230
Homemade firearm - Beer can bazooka ...Jul 79 41
Homemade firearm - Bolt gun ...Jan 82 31
Homemade firearm - Camera modified into stun gun ...Winter 97 16
Homemade firearm - Capacitor used as propellant ...Apr 89 231
Homemade firearm - Capacitor used as propellant ...Jul 79 41

Homemade firearm - Cigarette lighter pistol ...Oct 79 57
Homemade firearm - Colt 1911A1 copy ...Jul 79 64
Homemade firearm - Double barreled .32 ...Oct 81 117
Homemade firearm - Firing pin impressions ...Oct 81 116
Homemade firearm - Flare gun modified to shotgun ...Oct 81 25
Homemade firearm - Hand grenade from 12 gauge shell ...Jul 79 60
Homemade firearm - Hazards of firing ...Mar 76 55
Homemade firearm - Import from Mexico, two shot .22 ...Oct 81 53
Homemade firearm - Kit derringer ...Summer 98 518
Homemade firearm - Knife/pistol ...Jul 79 58
Homemade firearm - Krupp K. K. Super Weapon ...Apr 82 4
Homemade firearm - Mini-Maglite zip gun ...Oct 96 254
Homemade firearm - Miscellaneous parts ...Apr 88 204
Homemade firearm - Modified Starter gun ...Mar 75 72
Homemade firearm - Mortar from lube gun ...Oct 81 30
Homemade firearm - Overview ...NLR 9 29
Homemade firearm - Paint pistol, lethal ...Summer 02 304
Homemade firearm - Pen and cigarette lighter guns (electrically fired) ...Apr 95 123
Homemade firearm - Pen gun ...Jul 75 79
Homemade firearm - Pen gun/signal launcher converted to shot ...Jan 81 13
Homemade firearm - Pipe for shotshell ...Apr 94 161
Homemade firearm - Pipe pistol ...Jul 80 75
Homemade firearm - Pipe shoulder arm ...Mar 76 55
Homemade firearm - Prison facsimiles ...Mar 76 59
Homemade firearm - Rat trap ...Jan 95 31
Homemade firearm - Revolver ...Fall 2002 394
Homemade firearm - Rocket gun ...Jan 82 26
Homemade firearm - Rubber band powered ...Apr 88 192
Homemade firearm - Ruger Model 10/22 rifle modified by removing stock and cutting barrel ...Winter 00 46
Homemade firearm - Shotgun made from pipe used in suicide ...Fall 00 357
Homemade firearm - Shotshell boobytrap ...Jan 80 35
Homemade firearm - Shovel handle 12 ga ...Apr 88 193
Homemade firearm - Springfield with a thumb-button trigger ...Dec 76 41
Homemade firearm - Spud gun (potato cannon) ...Apr 94 128
Homemade firearm - Spud gun ...Jul 94 169
Homemade firearm - Staple gun ...Jan 94 34
Homemade firearm - Starter pistol modified ...Oct 73 34
Homemade firearm - Stove bolt ...Apr 74 5
Homemade firearm - Stove bolt ...Jan 82 61
Homemade firearm - Tear gas pistol modified ...Jan 89 84
Homemade firearm - Tire pressure gauge ...Jan 89 79
Homemade firearm - Trap gun ...Apr 80 19
Homemade firearm - Walking stick - .223 Remington caliber
Homemade firearms - See also Concealed firearms
Homemade firearms ...Oct 72 34
Homemade firearms ...Oct 72 35
Hood Arms - Marquis of Lorne with false rifling ...Dec 76 55
Hopkins & Allen - Class characteristics ...Dec 72 11
Hopkins & Allen - Falling Block Shotgun ...Jul 83 22
Hopkins & Allen - Forehand D. A. and Forehand 1901 grips ...Feb 74 26
Hopkins & Allen - XL Double Action revolver mismarked ...Jun 78 48
Hopkins & Allen ...Dec 72 11
Hornady - Knurled bullet class characteristics ...Apr 90 154
Hornady - Knurled pistol bullets ...Jan 81 10
Hornady - Vector ammunition for illuminated trajectories ...Jan 96 32
House wall penetration by modern police ammunition ...Summer 97 346
Hungarian Arms Works - Arcs on breechfaces ...Jul 95 213
Hungary - Model MFS ammo ...Oct 93 254
Hungary - Model PA-63, copied by Iraqis ...Jan 92 23
Hy Hunter - Derringer with different rifling in barrels ...Mar 76 18
Hydra-shok - Bullets ...Apr 84 109

Hydra-shok - Scorpion ...Jan 79 35
Hydra-shok - Scorpion ...Sep 78 46
I. T. - See **Industrias Tecnos**
Ibera Firearms - See **Strassell Machine**
IBIS - Average phase scoring for bullets in the IBIS correlation results ...Spring 02 199
IBIS - Brasscatcher Performance Study ...Jul 96 194
IBIS - Bullet correlation scores after ultrasonic cleaning ...Spring 02 165
IBIS - Confidence level variations in firearms (bullet comparisons) ...Winter 97 42
IBIS - Correlation algorithms in a Database of cartridge cases ...Summer 99 336
IBIS - Correlation results - Analyzing methodology and reliability factor ...Fall 01 342
IBIS - Correlation results - Improvements ...Winter 00 32
IBIS - Correlation results and average phase scoring for bullets, Firearms Report Review Paper - 1998-2001 ...Fall 2002 409
IBIS - Correlation results, methodology and reliability, Firearms Report Review Paper - 1998-2001 ...Fall 2002 409
IBIS - Firing pin rotation effects ...Fall 99 443
IBIS - Manual and automated systems ...Winter 97 55
IBIS - Mounting stub modification for manual bullet acquisition ...Winter 97 70
IBIS - NIBIN merger ...Spring 00 214
IBIS - Overview ...Summer 99 386
IBIS - Positioning cartridge cases and correlation scores ...Fall 00 337
IBIS - Protocols for casing entry into Brasscatcher ...Summer 97 326
IBIS - Scientific methods, advances in - Firearms Report - Speaking Paper 1998 - 2001 ...Fall 2002 362
IBIS - See also Brasscatcher
IBIS - See also Bulletproof
IBIS - Standard Bullets and Casings of NIST ...Fall 00 368
IBIS - Update, Firearms Report Review Paper - 1998-2001 ...Fall 2002 409 (two references)
IBIS - Utilization of the IBIS in Israel ...Summer 01 269
IBIS and the 5.56 NATO cartridge case fired from an M-16 ...Spring 2003 190
ICI - Hy-Score bullets ...Mar 76 85
Idaho Territory bullets from Speer - Coated ...Spring 02 202
Identification criteria - Committee report ...Jul 90 275
Identification criteria - See also Criteria for identification
Identification of a Compensated Glock Pistol ...Fall 01 333
Identification of polygonal barrel sub-family characteristics ...Spring 2003 197
Identification, theory of ...Jul 92 336
Ignition cartridges, mortar ...NLR 20 20
Ignition lock puller ...NLR 2 5
Illumination of exhibits, Co-axial lighting, advantages in microscopic examination ...Fall 99 457
Image enhancement of serial number restorations using Drugfire ...Spring 97 223
IMI - See **Israel Military Industries**
Iminonitroxide - Gunshot residue used to estimate time since discharge ...Jul 94 216
IMP - See **Imperial Metal Products**
Impact angle determination through plastic windows ...Winter 97 73
Impact velocity indicated by base deformation of full metal jacketed rifle bullets ...Winter 01 11
Impartiality ...Oct 93 259
Impartiality ...Summer 98 523
Imperial - Ammunition ...Jul 76 15
Imperial - Plastic insert in rifled slugs ...Jul 96 192
Imperial Chemical Industries - See **ICI**
Imperial Metal Products - 7 revolver ...Mar 75 44
Importance of being impartial ...Summer 98 523
Importer markings with business names and addresses ...Spring 00 169
Improved methods for the collection of GSR and chemographic testing of lead-free Sintox ammo ...Spring 2003 152
Incorrect manufacturer supplied test fire cartridge cases ...Spring 2003 195
Indented Markings - Replicating with a Dry Erase Marker ...Jul 91 804
Index - Available from FBI ...Oct 89 477
Index of firearm brand names and distributors from 1939 sporting goods trade directory ...Spring 2003 260
Indian Sales - 4 ...Dec 73 29
Indian Sales - Class characteristics ...Dec 73 29
Indian Sales ...NLR 3 27
Individuality and reproducibility of striae on plastic wad components fired from a sawed-off shotgun ...Spring 2003 161
Industria Argentina - .22 revolver ...Dec 75 72

Industrias Tecnos - .22 LR caliber cartridges, unusual ...Summer 00 296
Industrias Tecnos - Colibri (humming bird) cartridge ...Summer 00 296
Industrias Tecnos - QUIK-SHOK cartridge ...Summer 00 296
Inertial firing pin - See **Safeties**
Infectious Diseases - Prevention for firearm examiners ...Summer 01 227
Infinity Firearms - Interchangeable parts ...Spring 02 205
Infrared microscopy - for Gunshot residues ...Jan 81 21
Ingram - Pistols, cartridge case identification ...Jul 90 330
Ingram - Rifling ...Oct 81 52
Ingram - Submachine gun ...NLR 10 16
Inoperable S&W pistol identified by making test toolmarks of breechface ...Spring 99 131
Instant print film toolmarks ...Oct 81 112
Instant Shooter ID Kit, ISID-1, Law enforcement Technologies Inc., evaluation of ...Fall 2002 404
Institute of Applied Science - See **American Institute of Applied Science**
Integrated Ballistic Identification System - See **IBIS**
Intent of a shooter ...Oct 93 294
Interarms - Virginian Dragoon, overloaded ...Jan 89 81
Interchangeability of cartridges - See **Cartridge interchangeability**
Interdynamic - Model KG-9 ...Apr 85 92
Interdynamic - Model KG-9 ATF ruling ...Apr 82 5
Interdynamic - Model KG-9 conversion to automatic ...Jan 82 4
Interdynamic - Model KG-9 conversion to automatic ...Jan 83 60
Interdynamic - Model KG-99 ...Apr 85 92
Interdynamic - Model KG-99 ...Jul 84 24
Interdynamic - Model KG-99 **Safety warning** ...Apr 85 88
Interdynamics - Model KG-99, 9mm Luger caliber pistol - **Safety warning** ...Winter 02 66
Interior ballistics - See **Ballistics, internal**
Internal ballistics - See **Ballistics, internal**
International Ammunition Association ...Oct 95 325
International Legislative Responses to the Criminal Use of Firearms and Incidents of Mass-Murder ...Spring 97 190
International Wound Ballistics Assn. - reorganization ...Oct 95 303
International Wound Ballistics Association ...Apr 91 654
Interpol headstamp guide ...Dec 76 73
Interpol headstamp guide ...Jul 76 112
Intratec - Model Cat series ...Summer 97 304
Intratec - Model CAT-9, 9mm Luger caliber pistol - **Safety warning/Recall** ...Winter 02 68
Intratec - Model TEC 9 - Full auto firing simulation ...Jan 92
Intratec - Model TEC 9 - Use of duplex nail as firing pin ...Jan 96 15
Intratec - Model TEC 9 auto conversion ...Apr 87 169
Intratec - Model TEC 9 automatic conversion ...Apr 90 188
Intratec - Model TEC 9 full auto modification may be unreliable ...Winter 02 49
Intratec - Model TEC 9, Full auto fire cause by faulty assembly ...Winter 00 51
Intratec - Model TEC-22 Scorpion pistol ...Jan 90 51
Intratec - Model TEC-22 Scorpion pistol **Safety warning** ...Jan 90 51
Intratec - Model TEC-9 - **Safety warning** - Polymer frame damage may allow accidental firing or full automatic ...Fall 2002 480
Intratec - Model TEC-9, 9mm Luger caliber pistol - **Safety warning** ...Winter 02 67
Introduction to the Forensic Examination of Tool Marks ...Summer 01 233
Investment casting in firearm manufacture ...Jan 94 64
Iraq - Model M-74, copy of Hungarian PA-63 (copy of Walther PP) ...Jan 92 23
Iraq - Tariq pistol ...Apr 93 128
Iron bullets ...Jul 80 36
Iron test - Bullet residue inside bore ...Jan 80 60
Israel - Jericho - Polygonal barrel sub-family characteristics, identification of ...Spring 2003 197
Israel - MAGAL - Israel Police Force, "urban weapon", long range, 7.62 x 33mm (.30 Carbine) ...Winter 03 72
Israel Military Industries - Brass finished rimfire bullets ...Sep 78 22
Israel Military Industries - Galil rifle ...Apr 74 16
Israel Military Industries - Galil warning notice ...Jul 85 62
Israel Military Industries - Galil warning notice ...Oct 85 3
Israel Military Industries - See also Uzi
Italian made firearms - Roman numerals ...Aug 72 18
Italo G. R. A. - .22 revolver ...Dec 75 72

Ithaca - Model 37 Police shotgun - Accidental discharge ...Mar 75 37
Ithaca - Sears stock numbers ...Jun 78 54
Ithaca - Serial numbers ...NLR 5 16
Iver Johnson - .38 Spl revolver ...Apr 85 82
Iver Johnson - Model Enforcer automatic conversion ...Jan 92 11
Iver Johnson - Plainfield merge ...Apr 79 47
IVI (Canadian ammunition) - **See CIL**
J. J. Jovino - Hollow point .25 bullets ...Mar 75 64
Jacket composition, effect on bullet identification ...Summer 00 271
Jacket weights of bullets ...Spring 02 161
Jacketed shot projectile specifications (by MagSafe) ...Fall 99 461
Jackrocks - **See Caltrop**
James, Jesse - Bullet recovered from grave ...Jul 79 57
Japanese ammunition information ...Jul 76 19
Japanese arms companies ...Mar 75 66
Jar off ...Oct 90 390
Jennings - Accidental discharge potential - **Safety warning** ...Winter 01 48
Jennings - Breechface marks ...Winter 99 67
Jennings - Bryco, breechface headstamp impression ...Spring 98 363
Jennings - Firing pin rotation ...Jul 87 307
Jennings - Model 59 .380 ACP pistol ...Apr 94 132
Jennings - Model 59 Bryco pistol - Flowback (bulge) of primers ...Jan 95 1
Jennings - Model 59 Bryco pistol - Flowback (bulge) of primers ...Jan 95 40
Jennings - Model 59 with unusual caliber stamp ...Spring 99 147
Jennings - Model J-22 ...Apr 85 120
Jennings - Model J-22 ...Jan 87 18
Jennings - Model J-22 similarities to Sedco brand, SP-22 ...Spring 99 141
Jennings - Model J-22, .22 Long Rifle caliber semiautomatic pistol - **Safety warning** ...Winter 02 69
Jennings - Model J-22, Accidental discharge when dropped - **Safety warning** ...Summer 02 306
Jennings - Primer indentations on unfired cartridges ...Jan 95 61
Jennings - See also Bryco Arms
Jericho - Polygonal barrel sub-family characteristics, identification of ...Spring 2003 197
Jerico - Model 941 FS, 9mm, Firing pin hole drag ...Fall 98 658
Jet Ax - Entry device ...Jun 73 31
Jeweluster e*Z*est coin cleaner to clean bullets ...Oct 95 315
Jialilng - Shotshells from China with Power Piston look-a-likes ...Summer 98 512
Jonathon Arthur Ciener Inc. - Silencers ...Spring 01 103
Judicial Firing Line - **See Case Law**
Kahr Arms - Model K9 ...Jul 96 166
Kalishnikov - Model AK-47 ...Jul 95 220
Kalishnikov - Model AKS converted to fully automatic ...Winter 97 98
Kart Barrels ...Jan 82 70
Kennedy, John F. - Assassination ...NLR 6 2-3
Kennedy, John F. - Assassination examination panel ...Jan 81 63
Kennedy, Robert F. - Assassination - Firearms evidence ...Oct 76 4
Kevlar - See also Body Armor
Kevlar fibers used in portable, light weight bullet trap for laboratory and field use ...Winter 98 117
Key examinations - **See Locks**
Keys, master ...Winter 03 8
KG firearms - **See Interdynamics**
KGP Model 70 ...NLR 3 14
Kilibri - Semiautomatic pistol ...Apr 85 114
Kimber - Model 82 rifle ...Jan 81 8
King, Dr. Martin Luther, Jr. - Assassination revisited ...Summer 97 297
King, Dr. Martin Luther, Jr. - Investigation ...Jan 81 135
Kit derringer ...Summer 98 518
Kit guns - **See also Homemade firearms**
Knight's Mfg. - Model SR25 rifle ...Summer 02 312
Knives - Ballistic ...Apr 89 402
Knives - Ballistic ...Jul 86 60
Knives - Bone marked and identified ...Oct 95 293

Knives - Case law ...Oct 93 266
Knives - Comparisons of cuts ...Jul 80 16
Knives - Consecutive manufacture of blades ...Sep 78 43
Knives - Cuts in tires ...Apr 92 146
Knives - Guardfather (pen) ...Oct 82 140
Knives - Knife/pistol ...Jul 79 58
Knives - Knife-gun combination ...Jul 88 313
Knives - Marks in tire with consecutively manufactured knives ...Jan 82 50
Knives - Marks in tire with consecutively manufactured knives ...Apr 89 306
Knives - Springer (straight line) knife ...Jan 93 7
Knives - Terminology ...Jul 82 34
Knives - Terminology ...Jul 89 490
Knives - Tire cuts ...Jul 84 102
Knives - Toolmark identification of knife and cut wire ...Dec 76 66
Knives - Toolmarks in cartilage ...Oct 91 958
Knives - Wound in bone ...Apr 85 66
Knives - Wound in bone ...Oct 86 72
Knots in bailing wire ...Jul 75 99
Knurled bullets - Hornady class characteristics ...Apr 90 154
Korean Ammunition - Poong San ...Jan 81 7
Korean Ammunition - Poong San ...Jul 81 116
Krieghoff Firearms Company ...Mar 77 15
Krupp - K. K. Super Weapon ...Apr 82 4
KTW - Armor piercing ammunition ...Apr 84 110
KTW - Armor piercing ammunition ...Jan 82 6
KTW ...NLR 16 16
Kuhmo Tire decision, mock testimony ...Summer 00 231
L2A2 - See **Bullets - 5.56 x 45mm**
La Industrial Orbea - See **Orbea Hermanos**
Labstone - Hatchet marks in human skull bone ...Spring 98 349
Lacrimae - Model M33 ...NLR 12 22
Lake Erie Detective Gas Billy - Model D-35 ...Winter 99 20
Land, origin of term ...Oct 83 8
Language of toolmarks (science versus art) ...Winter 98 82
Lapua - SCOREMAX cartridge ...Summer 00 296
Lapua - Wadcutter with grooves ...Jul 83 26
Laser - Construction ...Apr 87 175
Laser - For ballistic alignment ...Jan 92 65
Laser - Use in scene investigations ...Apr 89 303
Laser - Use in scene investigations ...Oct 81 21
Laser etching - Modern marking and serial numbering methods ...Summer 99 309
Laser etching, restoration of ...Summer 02 264
Laser pointers - Use in crime scene reconstruction ...Jul 94 170
Laser topography and bullet striations ...Spring 98 294
Laser, Ballistic Alignment Laser in scene reconstruction ...Summer 97 372
Laser, LaserMax gunsight as ballistics alignment tool ...Summer 97 369
Laseraim - Aftermarket barrels for Glock pistols ...Fall 98 640
Laser-engraved serial numbers, barcodes, and datamatrix (datamatrices) ...Summer 01 280
LaserMax gunsight as ballistics alignment tool ...Summer 97 369
Laser-theodolite system for scene reconstruction ...Jan 91 538
Latent fingerprint processing using Small Particle Reagent ...Jan 87 15
Lathe shavings identified ...Apr 89 217
Lathe shavings identified ...Mar 78 23
Laurona Arms - Over-under shotgun ...NLR 3 5
Laurona Arms - Sears stock numbers ...Jun 78 54
Law Enforcement Online - See **LEO**
Law enforcement Technologies Inc. ISID-1 "Instant Shooter ID Kit", evaluation of ...Fall 2002 404
Lead - Vaporized by intermediate impact ...Apr 93 75
Lead (shot pellets) - See **Shotshells & components**
Lead ball classification ...Apr 80 40
Lead detection, Testing for the presence of lead "an easy way" ...Winter 01 40

Lead fouling effects ...Apr 81 94
Lead free bullets - Federal BallistiClean ...Winter 99 53
Lead hardness (lead bullet and core hardness as a class characteristic) ...Jan 95 77
Lead imprints: An aid for comparison of bullets ...Oct 91 980
Lead is Lead (elemental analysis and manufacture) ...Summer 02 314
Lead levels in blood ...Jul 85 95
Lead poisoning ...Mar 75 40
Lead poisoning of shooters ...Oct 80 101
Lead shot - Elemental analysis by NA & AA ...NLR 2 25
Lead smear removal for identification ...Winter 98 127
Lead smear removal from jacketed bullets ...Jul 90 342
Lead solvent ...Winter 98 127
Lead test - Bullet residue inside bore ...Jan 80 60
Lead tests - See **Gunshot residues**
Lead, Sources of in gunshot residues ...Summer 01 212
Lead, test for ...Jul 92 254
Lead, vaporized - Vaporized lead from bullet impact with intermediate target ...Jan 95 43
Lead-free "Green Bullet", U. S. Military ...Fall 99 493
Lead-free cartridges (American-made) ...Apr 95 142
Leading, barrel, severe ...Apr 83 14
Leather - impressions on cartridge cases from holders ...Apr 92 160
Lee Auto primer, priming tool, identification of toolmarks ...Winter 00 54
Lee Enfield - And Enfield ...Jul 94 173
Lee Industries - Lock puller ...Jun 78 63
Lee, Brandon, Firearm evidence in the homicide of ...Fall 97 473
Legislative responses to mass murder, International ...Spring 97 190
Leica - Assessment of DM-C Comparison Macroscope ...Jan 96 6
Leica - DMC Comparison Macroscope stand ...Oct 96 291
Leica - See also Microscopes & techniques
Leica DMC, Co-axial lighting, advantages in microscopic examination ...Fall 99 457
Leitz microscope spindle replacement ...Jul 88 326
Lemon juice for serial number restoration ...Apr 95 xiv
LEO - Overview ...Summer 99 393
LEO - Program ...Spring 98 416
LESIG - See **AFTE - LESIG**
Less lethal - Safegom - Revolver ...Summer 02 320
Less lethal weapons - Air Taser, forensic aspects ...Winter 98 108
Less lethal weapons - Police weapons ...NLR 14 26
Less lethal weapons - Simunition CQT is NOT non-lethal ...Spring 98 321
Less lethal weapons - Stun gun from modified camera ...Winter 97 16
Less lethal weapons - Taser ...Dec 75 23
Less lethal weapons - Taser ...Dec 76 32
Less lethal weapons - Taser stungun ...Jul 81 18
Lethal Paint Pistol ...Summer 02 304
Lethality of projectiles - See **Wounding effects**
LEW/Vektor Z88 magazine in FN pistol could result in accidental discharge ...Fall 99 483
Liberty ...NLR 1 10
Light attached to AR-15 ...Jul 83 19
Lighter used as concealed firearm ...Jul 83 126
Lighting, co-axial, advantages in microscopic examination ...Fall 99 457
Line counting - see Consecutive matching striae
Line of sight - calculations to determine ...Oct 91 919
Litigation - Preservation of evid. for secondary gun examination ...Oct 91 982
Little Pet - .410 gauge shotgun ...Apr 80 12
Llama - .22 pistols ...Apr 83 12
Llama - Model IX-A .45 pistol **Safety warning** ...Apr 92 197
Llama - Model IX-A, .45 ACP caliber, pistols - **Safety warning** ...Winter 02 70
Llama - Model X1 **Safety warning** ...Apr 85 80
Llama - Model XI-B 9mm pistol **Safety warning** ...Apr 92 197
Llama - Model XI-B, 9mm Luger caliber, pistols - **Safety warning** ...Winter 02 70
Llama - See also Stoeger

Llama - Warning about Stinger and Mini-Mag ammunition in Model XV ...Mar 78 10
Loading - and unloading revolvers ...Oct 91 931
Lock puller ...Jun 78 63
Locks - Automobile ignition ...NLR 12 28
Locks - Automobile ignition identification ...Apr 83 97
Locks - Automotive lock physical match ...Jul 76 74
Locks - Door terminology ...NLR 12 30
Locks - Drilled ...NLR 3 25
Locks - Drilled ...NLR 3 25
Locks - Drilled pins ...NLR 3 25
Locks - Forensic locksmithing ...Oct 83 20
Locks - Ignition lock puller ...Dec 75 17
Locks - Key lever lock decoding tool ...NLR 10 28
Locks - Key making machine ...Oct 83 22
Locks - Keys, microscopic striae ...Oct 82 20
Locks - Lock popper ...Dec 75 61
Locks - Magnetic ...Aug 72 21
Locks - Master keys ...Winter 03 8
Locks - Medeco ...Jul 75 96
Locks - Overview ...Apr 89 147
Locks - Pick for tubular style locks ...Oct 81 125
Locks - Pick marks ...NLR 4 13
Locks - Picked locks, examination techniques ...Oct 82 23
Locks - Picking circular locks ...NLR 3 28
Locks - Picking faked ...Jun 78 66
Locks - Picks concealed in pen ...NLR 14 24
Locks - Picks concealed in pen ...Oct 82 39
Locks - Pins, compression spring marks ...Oct 82 22
Locks - Puller ...Feb 73 28
Locks - Rotary saw ...NLR 12 27
Locks - Terminology ...NLR 12 31
Locks - Terminology ...NLR 14 17
Locks - Terminology ...NLR 15 17
Locks - Terminology ...NLR 5 4
Locks - Terminology and general ...NLR 19 18
Lorcin - .25 pistol failure during test firing **Safety warning** ...Jul 92 242
Lorcin - Accidental discharge potential ...Winter 01 48
Lorcin - Breechface identifications incorrectly based on "Family characteristics" ...Apr 96 95
Lorcin - Manufacturing techniques ...Fall 97 498
Lorcin - Model L25 pistol ...Jan 92 17
Lorcin - Model L25 pistol ...Oct 90 399
Lorcin - Model L380 breechface and manufacturing techniques ...Fall 97 498
Lorcin - Model L380 pistol ...Jan 93 6
Lorcin - Model L380 safety malfunction ...Apr 94 152
Lorcin - Model L-380, .380 ACP caliber, semiautomatic pistols - **Safety warning** ...Winter 02 71
Lorcin - Model L9mm & Model L380 pistol breechface toolmark patterns & manufacturing ...Spring 99 134
Lorcin - Model L9mm ...Jan 95 8
Lorcin - Primer indentations on unfired cartridges ...Jan 95 61
Lorcin - See also Bryco Arms
Lost wax process in firearm manufacture ...Jan 94 64
Lubricants - Causing misfires ...Feb 73 10
Lubricants, bullet, Analytical method for analysis and comparison ...Spring 00 143
Lubrication of slides & breechface marks with the Sig Sauer - P226, .357 Sig pistol ...Fall 98 629
Luckiest Policeman in Gary Indiana ...Spring 99 160
Luger - Serial numbers ...Jul 87 321
M1 carbine - Automatic conversion ...Apr 90 115
M-16 - **See Colt**
M855 - **See Bullets - 5.56 x 45mm**
MAC - Model M-10 and Model M-11 violate federal law ...Jul 80 77
MAC - Model M-10 full auto mod ...Apr 85 110
MAC - Model M-11 - Full auto firing simulation ...Jan 92 8

MAC - Model M-11 ...Apr 85 92
MAC - Model M-11 ...Aug 72 35
MAC - Model SSS-1 Stinger ...Aug 72 42
MAC - See also RPB
Machine guns - **See Automatic**
Macroscopic comparison - Using transparency film ...Summer 99 367
MAGAL - Israel Police Force, "urban weapon", long range, 7.62 x 33mm (.30 Carbine) ...Winter 03 72
Magazine lip marks, numerical criteria and subclass marks ...Fall 00 326
Magazine mark - Beretta - Model 3032 Tomcat, mark from weld in magazine ...Winter 03 71
Magazine marks - Determination of firing sequence by case marks ...Jul 95 237
Magazine safeties - See also Safeties
Magazine safeties ...Oct 93 301
Magazine safety designs (trigger block, sear block, disconnecter, spring tension release, decocker) ...Winter 00 10
Magazine used in different pistol results in accidental discharge ...Fall 99 483
Mag-na-ported - effect on bullet comparisons ...Jan 82 34
Magna-Trigger safety ...Mar 78 29
Magnesium smoke, for polygonal rifling bullet comparison ...Spring 97 197
Magnetic Resonance Imaging (MRI) involving firearms - Magnetization of firearms ...Winter 03 23
Magnetic resonance imaging and Ferromagnetic bullets ...Oct 89 595
Magnetic ring safety - Fulton Arms "Smart Gun" ...Jan 95 65
Magnetization of firearms by Magnetic Resonance Imaging ...Winter 03 23
Magnum Performance Ballistics - QUIK-SHOK cartridge ...Summer 00 296
Magnus force - **See Ballistics, external**
MagSafe - Epoxy core bullets (Swat load) in .40 and .45 caliber ...Spring 00 168
MagSafe ammunition - Jacketed shot projectile specifications ...Fall 99 461
MagSafe ammunition ...Summer 97 361
Magtech - .45 ACP ammo **Safety warning** ...Apr 93 151
MagTech cartridge with Velox primer ...Fall 99 478
Mahely - .22 LR pistol ...Jan 81 9
Maimi barrel (marks in barrels to aid bullet identification) ...Spring 97 232
Mainspring loses tension from heat during fire ...Winter 00 44
Makarov - Model PM - 9x18mm - Use of .380 Automatic cartridges ...Oct 94 276
Makarov - Pistol ...Jan 89 39
Makarov - Pistol ...Mar 77 29
Makarov - Pistol ...Oct 84 70
Makarov - Type 59 pistol ...Jan 90 38
Malfunction of a revolver by another bullet fired into the muzzle ...Jul 93 229
Malfunction worksheet ...Jan 83 100
Manual and automated bullet and cartridge case comparison systems ...Winter 97 55
Manual Spa Vacuum for water tank bullet recovery and tank cleaning ...Fall 01 353
Manufacture - Powder ...Apr 91 682
Manufacturers of firearms - Cross reference of names ...Apr 90 210
Manufacturers of firearms ...Jan 85 117
Manufacturing marks - 12 Gauge battery cups ...Winter 99 31
Manufacturing marks - Bolt cutters (from China) with matching sub-class striae ...Oct 93 298
Manufacturing marks - Breechface toolmarks, Raven ...Jul 84 57
Manufacturing marks - Bullet base toolmarks ...Jan 89 80
Manufacturing marks - Bunter information from major ammunition makers ...Winter 00 56
Manufacturing marks - Bunter marks ...Winter 97 33
Manufacturing marks - Bunter toolmarks ...Spring 98 334
Manufacturing marks - Cartridge cases, marks on ...Winter 99 15
Manufacturing marks - Cast bullet molds ...Jul 84 104
Manufacturing marks - Cast bullet molds ...Jul 85 88
Manufacturing marks - Chinese ammunition with striated primers ...Jan 95 5
Manufacturing marks - Chisels - Consecutively manufactured ...Fall 2002 379
Manufacturing marks - Computer numerical control (CNC) production tooling, chars. on Remington 870 breech bolts ...Winter 03 49
Manufacturing marks - Confused with breechface marks ...Jul 94 206
Manufacturing marks - Consecutively made cartridge cases ...Fall 2002 407
Manufacturing marks - Dan Arms shotshells (non-firing marks) ...Jan 88 46
Manufacturing marks - Electrical discharge machining (EDM), Application to Bunter manufacturing ...Winter 00 16
Manufacturing marks - End milling on consecutively machined bolt faces ...Winter 00 19

Manufacturing marks - Federal Hydra-Shok, .40 S&W, Hydra-Shok, .40 S&W ... Winter 97 21
Manufacturing marks - Federal shotshell primers ... NLR 13 25
Manufacturing marks - Fiocchi primers ... Jan 95 20
Manufacturing marks - Firearms factory tours ... Fall 97 487
Manufacturing marks - Firing pin, Smith & Wesson ... Jul 84 51
Manufacturing marks - Gas checks, copper, punch marks ... Jul 84 104
Manufacturing marks - Grooves on Sako bullet ... NLR 2 27
Manufacturing marks - Individual characteristics criteria (overview) ... Spring 98 276
Manufacturing marks - Lapua wadcutter with grooves ... Jul 83 26
Manufacturing marks - Lorcin pistol breechface patterns & manufacturing ... Spring 99 134
Manufacturing marks - Lost wax process (investment casting) in firearm manuf. ... Jan 94 64
Manufacturing marks - Nails ... Fall 98 614
Manufacturing marks - Nails, 4d cut flooring ... Fall 98 631
Manufacturing marks - Nails, marks identified ... Oct 95 306
Manufacturing marks - Nylon cable ties ... Jul 94 187
Manufacturing marks - Overview ... Apr 82 70
Manufacturing marks - Overview ... Jan 84 68
Manufacturing marks - Overview of Manufacturing marks on Center Fire Cartridges ... Spring 01 112
Manufacturing marks - Primers in 9x18 Makarov ... Jul 96 164
Manufacturing marks - Primers of Fiocchi, 9mm Luger FMJ 115 gn. Leadless ... Summer 00 300
Manufacturing marks - Pseudo-breechface marks on Russian 5.56mm ammunition ... Fall 99 490
Manufacturing marks - Razor blades, Toolmarks produced when attaching backing steel ... Spring 99 154
Manufacturing marks - Remington bullet base toolmarks ... Jul 84 81
Manufacturing marks - Remington bullet core ... Jan 89 76
Manufacturing marks - Remington bullet jacket interior ... Jul 84 22
Manufacturing marks - Remington cases (similar to ejector marks) ... Oct 87 452
Manufacturing marks - Remington jacketed bullet bases ... Oct 87 447
Manufacturing marks - Remington primers ... Oct 86 78
Manufacturing marks - Rio brand ammunition primers ... Jul 87 309
Manufacturing marks - Ruger - Model MKII target pistol - Anvil marks exhibit subclass characteristics ... Winter 03 75
Manufacturing marks - S&W revolver barrels consecutively manufactured ... Spring 99 117
Manufacturing marks - Sears 12 gauge shotshells ... Apr 74 22
Manufacturing marks - Shotshells, 12 gauge ... Spring 97 170
Manufacturing marks - Smith & Wesson - Model 5906 ejectors ... Fall 2002 406
Manufacturing marks - Subclass characteristics of magazine marks ... Fall 00 326
Manufacturing marks - Toolmark on CCI "Clean-Fire" primers ... Spring 2003 250
Manufacturing marks - Toolmarks on primers of ARMSCOR Precision Arms Corp. ... Summer 00 292
Manufacturing marks - Transverse lines on bearing surface ... Apr 94 139
Manufacturing marks - Winchester primer seating marks ... Jul 75 103
Manufacturing marks - Winchester USA brand, 9mm Luger primers ... Summer 02 315
Manufacturing marks - Winchester-Western cases ... Jan 83 108
Manufacturing processes for metals ... Summer 01 233
Marble (glass) used to initiate primer of shotshell ... Jan 94 23
Marking evidence ... Oct 82 56
Marking pistol, dye, Para-Ordnance, model 85 ... Winter 97 3
Markings - Replicating Indented Markings using Dry Erase Marker ... Jul 91 804
Markings on firearms - See **Trademarks**
Marks of importers with business names and addresses ... Spring 00 169
Marlin - Arcs on breechfaces ... Jul 95 213
Marlin - Glenfield .22 rifles rifling ... Apr 81 15
Marlin - Manufacturing facility, general info & serial numbers ... Fall 97 487
Marlin - Model 1906, machine gun, .30-06 caliber ... Apr 88 204
Marlin - Model 60 rifle ... Jul 87 301
Marlin - Model 70P and Model 60, firing pin variations ... Apr 94 157
Marlin - Rotating firing pin in Model 783 rifle ... Apr 81 18
Marlin - Serial numbers ... Oct 72 20
Maschinengewehr 08/15 machine gun ... Summer 01 256
Mass-murder, Legislative responses, International ... Spring 97 190
Master keys ... Winter 03 8
Materials terminology ... Fall 98 663
Mathematical models - Correlation algorithms in a Database of cartridge cases ... Summer 99 336

Mathematical models - Overview ...Jan 84 107
Mathematical models - Probability of consecutive striae, IBIS study and overvie ... Winter 98 15 (Part II - Spring 00 116)
Mathematical models - Probability of corresponding striae ...Jul 92 273
Mathematical models - See also Statistical analysis
Mathematical models - Statistical analysis of striae ...Jul 88 252
Mathematical models - Statistical analysis of striae ...Jul 88 260
Mathematical models - TRAX system for computer comparison of striated toolmarks ...Jul 96
Matsuzaka Casting Co. - See **MCC**
Mauser - Model GSM SLP 1 ...Apr 81 27
Mauser - Rifle to shotgun conversion ...Jan 86 16
Mauser - Serial numbers ...Apr 74 28
Maverick - See **Stallard Arms**
Maxim machine gun MG 08 ...Summer 01 256
Mayer & Sohne - Climax revolver ...Oct 95 320
MCC (Matsuzaka Casting Company) - Bolt cutter manufacturers ...Jul 89 508
Measurements of firearms ...Jul 82 10
Measuring projector - Microfiche reader ...Apr 83 7
Mechanical impact vs. thermal breakage of glass ...Summer 99 370
Medeco - Locks ...Jul 75 96
Medusa - See **Phillips & Rodgers**
MEN - See Metallwerk Eisenhutte
Mendoza - Model K-62 single shot pistol ...Apr 80 28
Mercury - .22 pistol ...Mar 78 30
Mercury for cleaning fouled barrels ...Jul 96 204
Metal chip marks on fired cartridge cases ...Spring 02 172
Metal detector for detecting bullets ...Jan 87 14
Metal, sheet, penetration and perforation by bullets ...Fall 97 431
Metallic residues in gunshot wounds ...Jul 77 31
Metallurgy - Vickers hardness values of selected .40 S&W primers ...Spring 2003 204
Metallwerk Eisenhutte - Ammunition ...Jan 80 40
Metals - Manufacturing processes ...Summer 01 233
Metric measurements vs. Decimal measurements ...Mar 75 42
Microfiche reader availability ...Jul 82 11
Microfiche, Use of measuring projector ...Apr 83 7
Microscopes & techniques - Beam splitter ...Apr 83 37
Microscopes & techniques - Brightfield and Darkfield illumination ...Jan 86 25
Microscopes & techniques - Bullet comparison methods ...Apr 89 260
Microscopes & techniques - Bullet comparison methods ...Oct 80 81
Microscopes & techniques - Co-axial lighting, advantages in microscopic examination ...Fall 99 457
Microscopes & techniques - Comparison scope for other evidence ...NLR 8 19
Microscopes & techniques - Comparison scope for robbery film ...Mar 77 40
Microscopes & techniques - Comparison scope history ...Apr 89 215
Microscopes & techniques - Comparison scope history ...Jan 89 67
Microscopes & techniques - Comparison SEM ...Apr 83 47
Microscopes & techniques - Comparison SEM ...Jul 83 141
Microscopes & techniques - Dulling spray for glare ...Feb 74 7
Microscopes & techniques - Empty magnification ...Oct 92 364
Microscopes & techniques - Fiber optic videomicroscopy ...Jul 90 280
Microscopes & techniques - History of Comparison scope ...Mar 78 7
Microscopes & techniques - Lighting techniques ...Fall 99 457
Microscopes & techniques - Micrometer for rifling measurements ...Mar 77 50
Microscopes & techniques - Microscopy ...Apr 84 42
Microscopes & techniques - Oblique lighting on the comparison microscope ...Jan 95 69
Microscopes & techniques - Optics - Overview ...Apr 84 42
Microscopes & techniques - Optics - Overview ...Oct 85 14
Microscopes & techniques - Optics ...Oct 85 14
Microscopes & techniques - Overview ...Jul 82 78
Microscopes & techniques - Photomicrography and illumination ...Oct 79 60
Microscopes & techniques - Reverse lighting ...Apr 83 37
Microscopes & techniques - Toolmark adapter ...Mar 76 14
Microscopy - See **Microscopes & techniques**

Midway - Blank cartridges in the Brandon Lee homicide ...Fall 97 473
Midway Arms - New ammunition ...Apr 81 16
Mikrosil – See also Casting materials & techniques
Mikrosil casting of pool tables, comparison with plywood strips ...Spring 97 181
Militants Formulary ...NLR 7 24
Military Armaments Corp. - See **MAC**
Military, U. S. - Lead-free "Green Bullet" ...Fall 99 493
Mini-Maglite zip gun ...Oct 96 254
Mini-revolver concealed in pager ...Jul 87 313
Mismatch of magazine and pistol results in accidental discharge ...Fall 99 483
Mistakes - Errors found in Cartridges of the World 4th Edition, pg. 192 ...Oct 91 989
Mistakes - Errors found in Scientific Evidence in Criminal Cases ...Oct 91 989
Mistakes - Errors found in Textbook of Crime Scene Investigation ...Oct 91 989
Mistakes - Errors found in Textbook of Firearms Investigation, Identification... ...Oct 91 989
MK Arms, Inc. - See **MKA**
MKA - Semiautomatic carbine ...Apr 91 658
Mock courtroom examination ...Summer 00 231
Modeling Blunt Trauma from Projectile Impact ...Winter 02 26
Modification to the common trigonometric method of bullet impact angle determination ...Spring 01 116
Modified Griess test - See **Gunshot residues** or **Distance determination**
Modi-Pac Shotshells - Plastic shot ...NLR 11 14
Molds and cast bullets ...Jul 85 88
Molds, custom, for ordnance gelatin ...Summer 02 321
Molds, custom, for ordnance gelatin, Update ...Fall 02 358
Molotov cocktail ballistics ...Jul 93 199
Molybdenum Disulfide coatings and bullet matching ...Summer 97 357
Molycoating, bullet matching ...Summer 97 357
Mondial - 999 blank/starter revolver ...Apr 85 52
Mortar cartridges, ignition ...NLR 20 20
Mossberg - C-Lect-Choke class characteristics ...Oct 90 401
Mossberg - Model 695, 12 gauge, bolt action shotguns, serial numbers M000101 through M015304 - **Safety warning/Recall** ...Winter 02
72
Mossberg - Serial numbers ...Aug 72 37
Mossberg - Serial numbers ...NLR 16 21
Motor vehicle - **See Automobile**
Mouth (cartridge case) identification ...Winter 99 29
MP-6A/B - **See Measuring Projector**
MPS - Machine pistol ...NLR 19 25
MRI - **See Magnetic resonance imaging**
M-S Safari Arms - Black Widow ammunition ...Jul 84 15
MSP - **See Russia**
Multiball cartridge - Remington ...Jan 95 74
Multiple ball discharge from black powder pistol ...Apr 90 206
Multiple bullet firing ...Summer 98 521
Multiple caliber revolver - Phillips & Rodgers Model Medusa ...Apr 95 103
Murom Apparatus Producing Plant - Heavy metal-free primers for handloaders ...Fall 01 326
Muzzle attachments for firearms ... Winter 99 22
Muzzle brake - Cellini Stabilizer ...Jan 90 34
Muzzle brake - Muzzle attachments for firearms ...Winter 99 22
Muzzle flash - Photography of ...Oct 91 912
Muzzle imprint - Plastic overlay, use of ...Jul 84 74
Muzzle imprint of 4-shot derringer ...Jul 96 154
Muzzleloaders - **See Black powder**
Nail driver - AMP (Ampact) ...Jul 77 194
Nail driver - Death ...Jan 80 19
Nail driver - Injuries ...NLR 2 25
Nail driver - Suicidal wound inflicted ...Spring 00 158
Nails, cut, manufacturing and toolmark identification ...Summer 98 492
Nails, manufacturing marks identified ...Oct 95 306
Nails, nail manufacturing, 4d cut flooring nails ...Fall 98 631
Nails, nail manufacturing, Comprehensive overview ...Fall 98 614

Nails, square cap, manufacturing, identification, and value ...Summer 97 282
Nambu - 8mm modified to 9mm Luger ...Mar 78 32
Nambu - Type 14, Ejection port marks ...Spring 98 356
Nambu ...Oct 72 30
National Firearm Examiner Academy, ATF ...Fall 98 703
National Firearm Examiner Academy, ATF ...Summer 99 397
National Firearms Academy Receives Prestigious Awards ...Fall 01 361
National Institute of Standards and Technology (NIST), Standard Bullets and Casings ...Fall 00 368
National Integrated Ballistic Information Network - **See NIBIN**
National Integrated Ballistics Information Network ...Fall 98 681
National Ordnance - .30 Model M1 US ...Jul 77 38
Navy Arms - Model TU90 pistol ...Apr 94 121
NCIC gun data codes ...Apr 92 179
NECO - Molycoated bullet matching ...Summer 97 357
NEF - **See New England Firearms Company**
Neutron Activation Analysis - of lead shot ...NLR 2 25
New England Firearms Co. - .32 H&R Magnums ...Jul 89 516
New England Firearms Co. - Model R92 ...Apr 95 xv
New England Firearms Co. - Model R92 revolver ...Jul 95 246
New York barrel (marks in barrels to aid bullet identification) ...Spring 97 232
Newsletter (AFTE) index ...Apr 83 57
NIBIN - Drugfire/IBIS merger ...Spring 00 214
NIBIN - Overview ...Fall 98 681
NIBIN - See also Drugfire or IBIS
Nickel test - bullet residue inside bore ...Jan 80 60
Nine millimeter (9mm) Flobert bullet ...Fall 2002 396 with peer comments Spring 2003 145
NIST - **See National Institute of Standards and Technology**
Nitric oxide - Gunshot residue used to estimate time since discharge ...Jul 94 216
Nitrite tests - See also Gunshot residues
Nitrite, test for ...Jul 92 254
Nitronyl nitroxide - Gunshot residue used to estimate time since discharge ...Jul 94 216
No Gun cases, bullet comparisons ...Jul 87 306
Noise levels, test firing ...Jul 85 95
Nomenclature of characteristics ...Apr 89 367
Nomenclature of firearms and components ...Apr 92 185
Nomenclature of parts ...Apr 85 117
Nomograph for land and groove calculation ...Oct 81 67
Non-lethal weapons - **See Less lethal weapons**
Non-Newtonian fluids, use in bullet recovery ...Jul 82 43
Non-toxic "Green Bullet", U. S. Military ...Fall 99 493
Norinco - Ammunition and packaging ...Apr 90 170
Norinco - Carbines ...Oct 89 629
Norinco - Makarov Type 59 pistol ...Jan 90 38
Norinco - Model 54-1 pistol chambered for .38 Super fires 9mm Luger, 9mm Makarov, .380 ACP, 7.62x25mm ...Summer 00 299
Norinco - Model 54-1, 7.62x25mm caliber, "Tokarev" pistol ...Winter 00 52
Norinco - SKS rifle, automatic conversion ...Summer 97 317
Norinco - SKS rifle, automatic conversion ...Summer 97 320
Norinco - Tokarev Type 54 pistol ...Apr 90 160
Norinco - Type 56S full auto conversion ...Apr 92 180
Norma - .38 Special Magnum = +P ...Jan 81 7
Norma - 7.62x39 Russian ...Jan 81 7
North American - Mini-revolver ...Apr 85 76
Norton - Model DP-75 ...Oct 88 457
Norton - Model TP-70 ...Jul 84 23
Nostalgia Enterprises Company - **See NECO**
Notch, safety - **See Safeties**
Notes and note-taking - **See also Documentation**
Note-taking ...Jan 91 544
Novosibirsk Low-Voltage Equipment Plant ammunition - Brown Bear brand, .380 ACP, 92 gn., JHP, bimetal bullet & case ...Spring 2003 242

Novosibirsk Low-Voltage Equipment Plant ammunition - Silver Bear brand, 9mm Luger, 115 gn., FMJ, bimetal bullet ...Spring 2003

242

Number of firings of plastic bodied shotshells ...Winter 02 11

Number restoration - See **Serial number restoration**

Numerical criteria for identification in casework involving magazine and land impressions ...Winter 01 41

Numerical standards as documentation of firearm/tool mark comparisons ...Spring 2003 149

Nyclad - See **Federal** or **Smith & Wesson**

Nylon bullets, Design, composition, external, terminal, and wound ballistic properties ...Summer 99 344

Objectivity - Case example ...Jan 81 32

Objectivity vs. Subjectivity ...Apr 89 413

Objectivity vs. Subjectivity ...Jan 87 24

Obstructed barrel tests using 25 caliber pistols ...Winter 01 58

Oehler Model 43 Personal Ballistics Laboratory System, Forensic Uses ...Winter 02 16

Oklahoma State Bureau of Investigation Laboratory ...Oct 79 39

Old Western Scrounger - .22 Winchester Automatic again available ...Summer 00 296

Olympic Arms - Aftermarket barrels for Glock pistols ...Fall 98 640

Omark - 330 Model G powder actuated nail driver ...Spring 00 158

Omark - Acquisition of Outers ...Oct 81 4

Omark - Case Kicker ...Oct 82 9

Omark - Reloading press ...Oct 82 9

Omark - See also CCI

OMC - See **AMT**

Omega ...NLR 1 10

Omnishock - Bullet ...Jan 89 32

Online - See **Computers & computer assistance** or **LEO**

Open chamber guns ...NLR 8 11

Open-Case-File Search System ...Spring 00 176

Operation "On-Target" ...Oct 93 246

Optics - See **Microscopes and Techniques**

Orbea Hermanos - Revolver, .32-20 Win. ...Jul 87 327

Ordnance gelatin - See **Gelatin, ordnance**

Ordnance Manufacturing Corporation - See **AMT**

Ortgies - Pocket pistols ...Winter 97 87

Ossified bullets ...Apr 94 102

Outers - Acquired by Omark ...Oct 81 4

Overloads - Interarms Virginian Dragoon, .357 ...Jan 89 81

Pager modified to conceal mini-revolver ...Jul 87 313

Paint chip - Physically matched ...Mar 75 70

Paint pistol, lethal ...Summer 02 304

Pakistani firearm forgeries ...Jan 88 85

Paradox program for tracking obliterated serial numbers ...Oct 95 264

Paraffin test - see Gunshot residues

Para-Ordnance - 85 dye marking pistol ...Winter 97 3

Parker - See **Wyoming Arms**

Parts nomenclature ...Apr 85 117

Passport radar detectors - hidden serial numbers ...Jul 89 502

Patent dates to find out manufacturer ...Apr 73 10

Patent dates to find out manufacturer ...NLR 18 16

Patina of fabric impressions on cartridge cases ...Apr 92 160

Pattern matching of a paint flake to its source ...Spring 01 143

Pattern recognition - See also Criteria for identification

Peer Group Study Committee ...Jul 82 3

Peer review - Daubert criteria and Firearm/Toolmark examination ...Winter 03 38

Peer Review of the AFTE Journal (Daubert requirements) ...Spring 02 210

Peer review, in-depth discussion ...Spring 00 132

Pellet counting device ...Jul 83 24

Pellet guns - See **Air guns**

Pellets, air gun - See **Air guns**

Pen gun - Accidental death ...Oct 90 448

Pen gun - Electrically fired ...Apr 95 123

Pen gun - Lake Erie Detective Gas Billy - Model D-35 ...Winter 99 20

Pen gun - Pen pistol ...Oct 95 294

Pen gun - See also Homemade firearms

Pen gun ...Apr 90 199

Pen gun ...Jul 87 322

Penetration - See also Ballistics, terminal

Penetration of exterior house walls by modern police ammunition ...Summer 97 346

Penetreen - Rust dissolver ...Fall 99 476

Percent match - Criteria for identification and bullet striae ...Spring 02 158

Perforation of skin and skin simulants ...Summer 02 268

Personal Protection Systems, Ltd. - 9mm MAP (Maximum Auto Pistol) ...Jul 89 518

Personal Protection Systems, Ltd. - 9mm subsonic ...Jul 89 518

Personal Protection Systems, Ltd. - Ammunition ...Jul 87 312

Personal Protection Systems, Ltd. - Maximum Pocket Pistol cart. ...Apr 90 202

Phenylflourone - See **Phenyltrihydroxyfluorone**

Phenyltrihydroxyfluorone, reagent for antimony in gunshot residue testing ...Jan 96 25

Phillips & Rodgers - Medusa (multiple caliber revolver) ...Apr 95 103

Phoenix Arms - Breechface toolmarks ...Apr 94 134

Phoenix Arms - Model HP22 ...Oct 95 314

Phoenix Arms - Primer indentations on unfired cartridges ...Jan 95 61

Phoenix Arms - Raven Model MP-25 ...Winter 97 93

Phoenix Arms - Raven pistol accidental discharge ...Spring 98 352

Phoenix Arms - See also Raven

Photo documentation of toolmark identifications - an argument in support ...Spring 2003 174

Photogrammetry - See also Photography

Photogrammetry ...Oct 93 242

Photographs - A basis for firearm related testimony ...Winter 97 45

Photography - Axial lighting ...Oct 91 963

Photography - Bullet comparison methods ...Apr 89 260

Photography - Bullet comparison methods ...Oct 80 81

Photography - Comparison microscope ...Jan 94 11

Photography - Comparison microscope used to print robbery film ...Mar 77 40

Photography - Cylinder gap flash documentation ...Oct 91 910

Photography - Digital photography for publication submissions ...Spring 01 147

Photography - Drawings from photographs ...NLR 6 2-7

Photography - Firearm identified in bank surveillance photograph ...Winter 97 45

Photography - Footwear techniques ...Apr 83 91

Photography - Footwear techniques ...Apr 83 95

Photography - High Speed ...Apr 85 74

Photography - High Speed ...Jul 84 36

Photography - High Speed ...Oct 84 75

Photography - High speed and spark flash ...Apr 89 313

Photography - High speed and spark flash ...Jan 83 11

Photography - High Speed System ...Fall 01 339

Photography - Identifications, editorial ...Apr 91 694

Photography - Illust. individual characteristics (Pt. 2 of above) ...Oct 87 451

Photography - Illustrating. different class characteristics ...Jul 87 320

Photography - Lighting, axial ...Oct 91 963

Photography - Muzzle flash Documentation ...Oct 91 910

Photography - Optical/Photo imaging ...Apr 84 58

Photography - Photo documentation of toolmark identifications - an argument in support ...Spring 2003 174

Photography - Photography of comparisons - overview ...Oct 81 132

Photography - Photomacrography and photomicrography ...Apr 84 63

Photography - Photomicrography and illumination ...Oct 79 60

Photography - Photomicrography as documentation of firearm/tool mark comparisons ...Spring 2003 149

Photography - Photos inadmissible ...Apr 79 52

Photography - Polaroid film back problems ...Oct 83 26

Photography - Recording bullet defects at crime scenes ...Jul 96 168

Photography - Recovering images from Polaroid negative sheets ...Apr 79 49

Photography - See also Photogrammetry

Photography - Shiny objects ...Jul 84 21

Photography - Sound trigger for stop action ...Jul 75 92

Photography - Sureguard matte special photographic spray ...Spring 98 316
Photography - Ultra-high contrast techniques for shoe prints ...Jul 84 113
Photomicrography as documentation of firearm/tool mark comparisons ...Spring 2003 149
Photos of AFTE members ...Summer 99 299
Physical match - Antenna extrusion marks ...Jan 96 19
Physical match - Automobile wheel and hub ...Mar 75 56
Physical match - Automotive lock ...Jul 76 74
Physical match - Bottle cap and cap ring ...Mar 75 19
Physical match - Broken wood pool cue stick ...Jul 94 185
Physical match - Bullet fragments ...Mar 75 18
Physical match - Bullet to concrete ...Oct 91 977
Physical match - Cable ...Oct 81 48
Physical match - Car roof to body ...Oct 89 632
Physical match - Comparison SEM ...Apr 83 47
Physical match - Comparison SEM ...Jul 83 141
Physical match - Fur coat ...Jul 75 66
Physical match - Glass ...Apr 88 154
Physical match - Gunstock parts to barreled action ...Mar 76 65
Physical match - Handgun grips ...Mar 75 75
Physical match - Heel to shoe ...Jul 75 105
Physical match - Knife blade ...Spring 98 343
Physical match - Monofilament nylon fishing line ...Jul 76 69
Physical match - Paint chip ...Mar 75 70
Physical match - Paint flake matched to its source using weld bead marks ...Spring 01 143
Physical match - Screwdriver tip ...Sep 78 23
Physical match - Shoe sole rubber fragments ...Jul 84 126
Physical match - Skin from fingerprint ...Mar 77 64
Physical match - Tape, electrical ...Jul 86 53
Physical match - Truck door to body ...Oct 83 10
Physical match - Vehicle parts ...Oct 94 287
Physical match - Wire insulation ...Jun 78 64
Physical match - Wood growth rings ...Mar 76 88
PIC ...NLR 1 10
PIC ...NLR 3 27
Pietro Beretta - See **Beretta**
Pills - marked with toolmarks from pill press ...Oct 90 442
Pin stamping - Modern marking and serial numbering methods ...Summer 99 309
Pinfire revolver ...Apr 85 58
Pistol ammunition fired in revolver - .380 in .357 ...Jan 80 33
Pistol cleaning ...Jan 93 40
Pitfalls - Caliber determination ...Summer 99 363
Pitfalls, General ...Apr 89 131
Pitfalls, General ...Apr 89 450
Pitfalls, General ...Jul 88 290
Plainfield - Merge with Iver Johnson ...Apr 79 47
Planer - Toolmarks on lumber ...Jun 78 57
Plastic - Serial number restoration ...Apr 81 30
Plastic 9mm Ammunition ...Spring 02 206
Plastic ammunition - Dynamit Nobel ...Aug 72 30
Plastic bag toolmarks ...Apr 89 384
Plastic bag toolmarks ...Jan 86 21
Plastic bag toolmarks ...Jan 88 55
Plastic bags - Trash bag comparison ...Jan 80 23
Plastic bodied shotshells, number of firings ...Winter 02 11
Plastic cased ammunition - Shotshells ...Jan 87 17
Plastic cased ammunition - USAC ...Apr 88 169
Plastic cased blank cartridges ...Dec 75 64
Plastic overlay ...Jul 84 74
Plastic penetrated by bullet ...Oct 92 356
Plastic projectile - Plastic insert in rifled slugs ...Jul 96 192
Plastic shot - Modi-Pac shotshells ...NLR 11 14

Plastic shot wads used to determine shot size ...Summer 01 267
Plastic windows, impact angle determination ...Winter 97 73
Plastic, Serial number restoration ...Summer 99 378
Plywood - See **Wood**
PMC - Ammunition update ...Apr 83 7
PMC - Poong San Ammunition ...Jan 81 7
PMC - Poong San Ammunition ...Jul 81 116
PMC - See also Poong San
Pneumatic arms - See **Air guns**
Poland - Radom VIS 35 by Fabryka Broni Radom ...Fall 97 479
Polaroid 545 sheet film holder - Solution to problem ...Oct 94 265
Police ammunition, Evaluation ...Feb 74 11
Polish - See **Poland**
Polyethylene shotshell buffers, analysis and comparison ...Summer 00 277
Polygonal barrel sub-family characteristics, identification of ...Spring 2003 197
Polygonal rifling - Bullet identification from H&K USP ...Summer 97 307
Polygonal rifling - Class characteristics ...Apr 73 32
Polygonal rifling - Consecutively rifled barrels ...Jun 78 40
Polygonal rifling - See also Rifling or Class characteristics or Bullet comparison
Polymer tipped bullets ...Spring 97 165
Polypropylene shotshell buffers, analysis and comparison ...Summer 00 277
Poong San (Ammunition manufacturer) - Ammunition ...Jan 81 7
Poong San (Ammunition manufacturer) - Ammunition ...Jul 81 116
Poong San (Ammunition manufacturer) - See also PMC
Pop rivet gun toolmarks ...Jul 87 305
Pop tops - See **Pull tabs**
Port Arthur Massacre ...Fall 98 582
Portable, light weight bullet trap for laboratory and field use ...Winter 98 117
Ported Glock pistol - Identification of ...Fall 01 333
Ported pistol - Identification of bullets from Glock ...Fall 01 333
Potato cannon ...Apr 94 128
Powder - See **Gunpowder**
Power actuated tools - See **Nail driver or Fastening, Power actuated**
Powerlets (CO2 cartridges for Air guns) ...Summer 98 435
PPS - See **Personal Protection Systems or Filli. Pietta**
PPS/50 - See **Filli. Pietta**
Pre-Identified cartridges - See also Manufacturing marks
Pre-Identified cartridges ...Winter 99 15
Pressure gun ...Dec 76 24
Pretoria Metal Pressings (PMP) ...Spring 00 180
Primer compositions - Analytical techniques ...Fall 01 326
Primer cups - See **Primers**
Primer punch, identification of toolmarks ...Winter 00 54
Primer reference collections ...Summer 01 219
Primer residues - Antimony enrichment on the bullets' surfaces in antimony-free primers, Firearms Report Review Paper - 1998-2001 ...Fall 2002 409
Primer residues - Atomic absorption spectrochemical analysis ...Oct 82 73
Primer residues - Barium contamination from glass ...Jul 84 24
Primer residues - Chemistry, Firearms Report Review Paper - 1998-2001 ...Fall 2002 409
Primer residues - Cimino-Debney method ...Oct 82 67
Primer residues - Collection using film-lift techniques for NAA ...Jun 74 4
Primer residues - Deposition of GSR on unfired cartridges in the adjacent chambers of a revolver ...Fall 00 346
Primer residues - Dermal nitrate test ...Oct 82 69
Primer residues - Harrison-Gilroy method ...Oct 82 70
Primer residues - Improved methods for the collection of GSR and chemographic testing of lead-free Sintox ammo ...Spring 2003 152
Primer residues - Inductively coupled plasma-mass spectrometry, Firearms Report Review Paper - 1998-2001 ...Fall 2002 409
Primer residues - Lead free ammunition by x-Ray microfluorescence, Firearms Report Review Paper - 1998-2001 ...Fall 2002 409
Primer residues - Neutron activation analysis ...Oct 82 72
Primer residues - Paraffin test ...Oct 82 69
Primer residues - Role of firearms examiner ...Apr 81 70
Primer residues - Sampling procedure ...Jul 84 136

Primer residues - Sampling procedure ...Oct 84 57
Primer residues - Survey results ...Oct 74 12
Primer residues - Trace metal detection technique ...Oct 82 71
Primer residues - Trail left behind bullets ...Oct 74 20
Primers - Anvil bounce ...Oct 95 318
Primers - Chemical aspects ...Oct 90 364
Primers - Composition and gunshot residue ...Jan 87 8
Primers - Compositions ...Jan 90 1
Primers - Compositions, analytical techniques ...Fall 01 326
Primers - Firing pin hole marks ...Jul 91 803
Primers - Flowback (bulge) not always due to high pressure ...Jan 95 1
Primers - Flowback (bulge) not always due to high pressure ...Jan 95 40
Primers - Hangfires ...Apr 91 660
Primers - Manufacturing marks - striations ...Jan 95 5
Primers - Manufacturing marks on FIOCCHI cartridge primers ...Jan 95 20
Primers - Overview ...Jul 82 61
Primers - Overview ...Jul 84 181
Primers - Possible high primer on shotgun shell ...Jul 90 315
Primers - Primer indentations on unfired cartridges ...Jan 95 61
Primers - Toolmark on CCI "Clean-Fire" primers ...Spring 2003 250
Primers - Vickers hardness values of selected .40 S&W primers ...Spring 2003 204
Priming compositions - See **Primers**
Priming tool, identification of toolmarks ...Winter 00 54
Private examiner's role ...Oct 87 406
Probability - See also Mathematical models
Probability of corresponding striae ...Jul 92 273
Problems - See **Pitfalls**
Product Notices - See **Safety warnings**
Product Recalls - See **Safety warnings**
Proficiency testing - Evidence tests stump labs ...Apr 79 20
Proficiency testing - Illinois ...Oct 80 76
Proficiency testing - Nationwide project ...Apr 79 23
Proficiency testing - See also Quality Assurance
Profiling - Bullet comparison methods ...Apr 89 260
Profiling - Bullet comparison methods ...Oct 80 81
Profiling - Surface ...Apr 84 60
Profilometer, Laser topography and bullet striations ...Spring 98 294
Project Report (1998-99) of NIST Standard Bullets and Casings ...Fall 00 368
Proof mark - Unusual on Walther, PPK/s model ...Winter 01 47
Proof marks - Foreign ...Jan 92 15
Proof marks and Proof tests ...Apr 82 81
Proof marks and Proof tests ...Apr 83 117
Proof marks on Bayard Shotgun ...Jan 82 48
Propellants - See **Gunpowder**
Proximity tests - See **Distance Determination** or **Gunshot residues**
Prvi Partizan - Yugoslavian ammunition ...Apr 85 87
Pry bar - Lock popper ...Dec 75 61
Pseudo-3D approach for firing pin exam using comparison microscope ...Fall 97 470
Pseudo-breechface marks - See **Manufacturing marks**
PTF - See **Phenyltrihydroxyfluorone**
Publish or perish ...Apr 81 19
Pull tabs from beverage cans, toolmarks ...Apr 83 56
Pull tabs from beverage cans, toolmarks ...Jul 84 99
Pushed bullet comparison ...Fall 99 486
Pushed bullet, effect on an identification ...Summer 00 271
PVC Spud gun ...Jul 94 169
Pyrodex powder (black powder substitute) - Physical and chemical properties and performance ...Fall 01 313
Quality Assurance - Accreditation of Laboratory ...Jul 82 36
Quality Assurance - Crime lab operations ...Apr 83 71
Quality Assurance - Proficiency testing ...Jan 85 26
Quality Assurance - Program ...Jul 86 10

Quiet Thunderstorm - Russian silenced pistol ammunition ...Summer 97 375
Radar, doppler - Uses in forensic ballistics ...Apr 92 129
Radiology - See **X-rays**
Ramset - See **Fastening, Powder Actuated**
Randall - .45 stainless steel pistol ...Jul 83 16
Random sampling verification of firearms collection ...Jul 85 83
Randomness - See **Mathematical Models**
Range determination - See **Distance Determination** or **Gunshot residues**
Range of conclusions (Theory of identification) ...Spring 02 227
Range of conclusions possible when comparing toolmarks ...Winter 98 86
Ranger - Serial numbers ...NLR 15 18
Ranger Manufacturing Co. - Walther PPK/S manufacturers ...Apr 81 29
Ranges - See **Shooting Ranges**
Rat trap used to fire cartridge ...Jan 95 31
Rates of fire for some common semi-automatic and full automatic firearms ...Summer 00 252
Raven - Breechface toolmarks, .25 automatic ...Jul 84 57
Raven - Consecutively fired bullets and cases ...Jul 83 109
Raven - Forgery ...Apr 88 206
Raven - History ...Jul 77 59
Raven - Model P-25 ...NLR 19 32
Raven - Model P-25 variations ... Winter 97 93
Raven - Pistol fired out of battery ...Apr 88 207
Raven - Plant destroyed by fire ...Jan 92 27
Raven - Primer indentations on unfired cartridges ...Jan 95 61
Raven - Safety change ...Jan 89 73
Raven - See also Phoenix Arms
Razor blade manufacturing information ...Mar 76 80
Razor blades - Toolmarks produced when attaching backing steel ...Spring 99 154
REA Express Company - Dummy cartridge ...Oct 74 8
Rebounding hammer - See **Safeties**
Rebounding striker - See **Safeties**
Recalls - See **Safety warnings**
Re-certification - See also Certification or **AFTE**
Re-certification, AFTE ...Summer 02 342
RECK - revolver ...Oct 95 320
Recoil velocity of small, homemade shotgun used in suicide ...Fall 00 357
Reconstruction - See also Crime scenes
Reconstruction of a double homicide ...Spring 01 135
Recovery of bullets - See **Bullet Recovery**
Reduced powder loads ...NLR 3 14
Reenactment - See **Crime scenes**
Reference ammunition for gunshot residue testing ...Fall 00 332
Reference collections - The Lifeblood of the Firearm Tool Mark Examiner ...Summer 01 219
Reference files and collections - Random sampling verification ...Jul 85 83
Reference files and collections ...Jan 84 56
Reference material - errors, misprints, pitfalls, mistakes ...Oct 91 986
Release triggers ...NLR 3 5
Reloading - Caliber conversions with reloading tools ...Jul 93 209
Reloading - Detecting signs of ...Jul 84 188
Reloading - Die marks on bullet nose ...Spring 98 347
Reloading - Die toolmarks ...Apr 79 37
Reloading - Handgun bullets in rifle cases ...Jul 87 324
Reloading - Most popular calibers (loading die sales figures) ...Oct 81 118
Reloading - Omark Case Kicker ...Oct 82 9
Reloading - Omark press ...Oct 82 9
Reloading - Overview ...Jul 82 66
Reloading - Overview ...Jul 84 184
Reloading - Primer punch, identification of toolmarks ...Winter 00 54
Reloading - Wadcutter loaded backward ...Mar 78 31
Remington - .22 Yellow Jacket headstamp & bullet discrepancies ...Oct 81 75
Remington - .25 ACP ammunition change ...Jul 77 164

Remington - .38 Special ammunition **Recall** ...Jan 87 7
Remington - 12 gauge rifled slug with hollow point ...Jul 80 91
Remington - 12 gauge, 1 oz. slugs, SP12RS-5PK, Slugger, 2-3/4", Lot number AT01H218 - **Safety warning/Recall** ...Winter 02 83
Remington - 20 gauge rifled slug components change ...Jul 80 75
Remington - 20 gauge wad change ...Jul 79 65
Remington - 6mm Remington caliber ammunition, Index numbers R6MM1 or R6MM2 - **Safety warning/Recall** ...Winter 02 83
Remington - 7mm Express ammunition **Safety warning** reference high pressures ...Oct 80 103
Remington - Accelerator ...Dec 76 61
Remington - Accelerator ...Mar 77 55
Remington - Accelerator ...Oct 81 50
Remington - Accelerator ...Oct 83 16
Remington - Ammunition - 7mm Express **Safety warning** reference high pressures ...Oct 80 103
Remington - Ammunition - Knurl or crease locations & bullet types ...Jan 80 29
Remington - Ammunition - Multiball load cartridge ...Jan 95 74
Remington - Ammunition **Recall** ...Jul 81 6
Remington - BB in nose of .45 ACP bullets ...Jul 96 179
Remington - Brass finished rimfire bullets ...Sep 78 22
Remington - Bullet base toolmarks ...Jul 84 81
Remington - Bullet base toolmarks ...Oct 87 447
Remington - Bullet cores marked by jacket with apparent rifling ...Apr 88 189
Remington - Bullet cores marked by manufacturing ...Jan 89 76
Remington - Bullet with convex base ...Spring 97 174
Remington - Cartridges made by Winchester ...Jul 89 520
Remington - Cases marked by manufacturing ...Oct 87 452
Remington - Change in bullets ...Jan 80 34
Remington - Class characteristics ...Aug 73 30
Remington - Copper sabot shotgun slugs ...Summer 00 301
Remington - Date of manufacture codes ...Oct 81 127
Remington - Derringer cal. .41 Short sympathetic discharge ...Jul 96 147
Remington - Ejector cut-out marks, Comparison value ...Fall 2002 391
Remington - Firearms museum ...Jan 81 8
Remington - Flexitab (carrier and other assemblies for 870) ...Apr 88 199
Remington - Gold coating on bullets ...Summer 00 296
Remington - Golden bullets ...Mar 76 85
Remington - Golden Saber - Effect of angle of hollow point bullets fired into gelatin ...Jul 94 193
Remington - Golden Saber bullets ...Apr 94 126
Remington - Headstamp (U to Rem) ...Jul 83 18
Remington - Headstamp error ...Jul 84 26
Remington - Letters on .22 bullets ...Oct 81 83
Remington - Letters on bullet bases ...Jul 75 85
Remington - Manufacturers marks ...Jul 84 8
Remington - Manufacturers toolmarks on shotshell wads ...Oct 81 119
Remington - Manufacturing facility, general info & serial numbers ...Fall 97 487
Remington - Model 1100LH shotgun with rifled barrel (homemade) ...Summer 02 311
Remington - Model 1911 Shotgun ...Jun 73 21
Remington - Model 514 turnbolt mark ...NLR 8 33
Remington - Model 597 (.22 cal.) rifle factory tour & manufacturing info ...Spring 99 153
Remington - Model 600 **Recall** ...Jan 79 19
Remington - Model 600, rifles - **Safety warning/Recall** ...Winter 02 73
Remington - Model 660 **Recall** ...Jan 79 19
Remington - Model 660, rifles - **Safety warning/Recall** ...Winter 02 73
Remington - Model 700 .17 Rem. Caliber rifle **Safety warning** ...Apr 90 227
Remington - Model 700 rifles ...Oct 82 10
Remington - Model 700, .17 Remington caliber, rifle - **Safety warning/Recall** ...Winter 02 74
Remington - Model 870 - Computer numerical control (CNC) production tooling on breech bolts ...Winter 03 49
Remington - Model 870 and Model 1100 tools from Brownell's ...Oct 90 454
Remington - Model Mohawk 600 **Recall** ...Jan 79 19
Remington - Model Mohawk 600, rifles - **Safety warning/Recall** ...Winter 02 73
Remington - Model XP100 **Recall** ...Jan 79 19
Remington - Modi-Pac shotshells ...NLR 8 14
Remington - New .44 Magnum medium load ...Mar 77 62

Remington - Power Piston look-a-likes from China ...Summer 98 512
Remington - Protuberance on .380 Auto pistol bullet ...Jul 96 173
Remington - Questions and answers ...Oct 81 123
Remington - Rifle calibers, chronological order ...NLR 13 33
Remington - Semiautomatic shotgun safeties ...Jul 89 496
Remington - Shotguns, slide action - History ...Apr 89 453
Remington - Shotguns, slide action - History ...Jul 88 296
Remington - Shotshells, 12 gauge rifled slugs ...Jul 83 16
Remington - Six flats formed on interior of bullet jackets ...Jan 79 30
Remington - Six flats formed on interior of bullet jackets ...Jun 78 28
Remington - Six flats formed on interior of bullet jackets ...Sep 78 31
Remington - Steel shot ...Dec 73 31
Remington - Targetmaster (smooth bore) rifle identified ...Oct 83 19
Remington - Two different headstamps in same box of ammunition ...Oct 82 12
Remington - Viper ammunition ...Jan 82 8
Remington - Viper ammunition ...Oct 82 10
Remington-Peters - See **Remington**
Remote firing device ...Apr 93 116
Replica methods for bullet comparisons ...Apr 89 260
Replica methods for bullet comparisons ...Oct 80 81
Replica methods for bullet comparisons - Lead imprints ...Oct 91 980
Replicas - See **Casting materials & techniques**
Report on the AFTE Theory of Identification and Range of Conclusions for Tool Mark Identification and Resulting Approaches to Casework ...Spring 02 227
Report writing - Nomenclature of firearms and components ...Apr 92 185
Report writing techniques ...Apr 91 699
Rest, rifle - Homemade ...Oct 79 16
Restoration of a .38 caliber Belgian revolver ...Fall 99 476
Restoration of rusted firearms - See **Rust**
Restoration of serial numbers - See **Serial number restoration**
Revelation - Model 135 **Recall** ...Jan 82 6
Revelation - Model 160 **Recall** ...Jan 82 6
Revolver cartridges in automatics ...Jul 80 68
Revolver safeties, history ...Apr 89 309
Revolver safeties, history ...Oct 82 29
RG - See **Rohm**
Rhoner - Sportwaffen Model 115, Accidental discharge and design defect - **Safety warning** ...Summer 01 253
Ricochet - Asphalt, shooting reconstruction ...Winter 03 74
Ricochet - Associating projectiles with ricochet sites ...Jul 75 28
Ricochet - Bullet deflection due to angled intervening materials ...Fall 01 304
Ricochet - Bullet impact spalls in frangible surfaces ...Oct 80 71
Ricochet - Empirical study and measuring device ...Apr 89 182
Ricochet - Empirical study and measuring device ...Dec 75 35
Ricochet - From water ...Jul 79 27
Ricochet - Glass, laminated windshield, bullet trajectory determination ...Spring 98 309
Ricochet - See also Ballistics, external or Ballistics, terminal
Rifle bursts ...Oct 91 951
Rifle cartridges fired within a block of wood ...Spring 02 175
Rifle rest - Homemade ...Oct 79 16
Rifle rest - Zero One ...Oct 83 28
Rifle rest - Zero One modification ...Jul 87 298
Rifled shotgun barrel (homemade) ...Summer 02 311
Rifled shotgun barrels ...Jan 87 14
Rifles - Time since discharge, Firearms Report Review Paper - 1998-2001 ...Fall 2002 409
Rifling - Bee Miller - Hi-Point 40 and 45 caliber polymer framed pistols ...Spring 2003 243
Rifling - BEE Miller - Hi-Point pistol, Model C, 9L rifling characteristics ...Winter 00 46
Rifling - BEE Miller, Hi-Point Model 995, 9mm caliber carbine, atypical rifling ...Spring 00 166
Rifling - Class characteristics of autoloading pistols ...NLR 2 31
Rifling - Colt Gold Cup with no rifling ...Oct 92 352
Rifling - Consecutively button rifled barrels ...Jul 85 64
Rifling - Davis Industries Model D38 derringer with one rifled and one unrifled barrel ...Jul 96 174

Rifling - Davis Industries Model P-380 - Smoothbore ...Oct 94 301
Rifling - Different rifling characteristics in the two barrels of a CDM derringer ...Spring 98 320
Rifling - Different rifling in each of two derringer barrels ...Mar 76 18
Rifling - Electrochemical - Validation study ...Winter 03 35
Rifling - False rifling of Hood Arms revolver ...Dec 76 55
Rifling - Gain ...Apr 85 100
Rifling - General ...Oct 85 57
Rifling - Individual characteristics criteria (overview) ...Spring 98 276
Rifling - Lack of, in Armi Tanfoglio GT41 ...Apr 92 177
Rifling - Marks on powder particle ...Apr 91 657
Rifling - Methods ...Jul 81 34
Rifling - Nomograph for land and groove calculation ...Oct 81 67
Rifling - Pitch determination ...Dec 75 21
Rifling - Polygonal - Class characteristics ...Apr 73 32
Rifling - Polygonal ...Jul 77 45
Rifling - Polygonal barrel sub-family characteristics ...Spring 2003 197
Rifling - Polygonal barrels consecutively rifled ...Jun 78 40
Rifling - See also Class characteristics or Bullet comparison
Rifling - Shotgun barrels with rifling - effects on patterns ...Jul 92 246
Rifling - Tanfoglio Giuseppe .41 Action Express pistol - Smoothbore ...Jul 94 203
Rifling - Twist rate measurement ...Jul 82 27
Rifling - Unrifled pistol, bullet identified ...Jul 95 197
Rifling - Unrifled barrel on Bauer .25 Auto ...Summer 97 365
Rifling - Unrifled barrels firing Flobert bullet, 9mm ...Fall 2002 396 with peer comments Spring 2003 145
Rifling characteristics - See **Class Characteristics**
Rifling on .32 ACP casing (fired in a .380 ACP barrel) ...Summer 01 258
Rifling on .32 ACP casing (fired in a .380 ACP barrel) ...Winter 02 50
Rimfire cartridge - Dual ignition (two striker impacts) ...Apr 80 21
Rimfire firing pin impressions ...Jul 83 85
Ring bulge ...Oct 91 951
Rio (Ammunition) - Toolmarks on primers ...Jul 87 309
Rivet gun - See **Pop rivet gun**
Rivet impression in bullet nose ...Spring 02 168
RJ Braverman Corp. - Pen pistol ...Oct 95 294
Roadjacks - See **Caltrop**
Roadway structure, Crown and bank affects bullet path angles ...Winter 98 89
Rocket gun (homemade) ...Jan 82 26
Rogak - LES P-18 pistol ...Apr 85 72
Rohm - "Saturday Night Special" case ...Apr 86 77
Rohm - .25 ACP pistol **Safety warning** ...Jan 90 47
Rohm - Company history and safeties ...Apr 86 72
Rohm - Derringer with different rifling in barrels ...Jul 77 168
Rohm - Manufacturing plant ...Mar 78 15
Rohm - Model 38T revolver ...NLR 7 25
Rohm - Model 57 .41 Magnum revolver ...Oct 90 444
Rohm - Model 66, defective loading gate allows ejection of cases ...Spring 98 354
Rohm - Model RG14 misfire ...Apr 93 112
Rohm - Model RG14 revolver ...NLR 2 26
Rohm - Model RG15 ...Jul 87 314
Rohm - Model RG25 Accidental discharge ...Feb 73 25
Rohm - Other names ...NLR 20 17
Rohm - Revolver dry fired and damaged, marks on bullets ...Apr 92 162
Rohm - Revolver modified ...Jan 80 41
Rohm - Serial numbers ...Aug 72 19
Rohm ...NLR 1 10
Rohm ...NLR 1 19
Rohner - S. M. 12 Gas pistol ...Jan 89 84
Romania - AKM class characteristics and performance ...Summer 98 531
Romania - FPK Sniper rifle ...Apr 93 140
Rossi - .38 Special Saddle ring carbine ...Oct 74 17
Rossi - Rifling ...Oct 81 51

Rotary Group Study Exchange Program ...Summer 01 260
Rotation of firing pin, effect on Drugfire and IBIS ...Fall 99 443
RPB - Full auto conversion ...Apr 85 71
RPB - Miscellaneous ...Jul 84 17
RPB - Model 10 and Model 11 ...Mar 78 25
RPB - Model 10, automatic conversion ...Jul 80 29
RPB - Model 10, automatic conversion ...Jul 89 511
RPB - Model 10, concealed in briefcase ...Jul 84 14
RPB - Model 10, full auto conversion ...Oct 83 26
RPB - Model 10, full auto conversion ...Oct 88 452
RPB - Model 10, new rifling ...Apr 81 32
RPB - Rifling ...Oct 81 52
RPB - Semi-auto pistol ...Apr 85 92
RPB - Semi-auto pistol, automatic conversion ...Jul 84 13
RPK - Russian light machine gun ...NLR 15 25
RSR Distributors - South African ammunition - 5.56 x 45mm (.223 Remington) ...Spring 00 180
RTS - Modified starter gun ...Mar 75 72
Rubber auto tire and gunshot residues ...Fall 97 469
Rubber bullets - Safegom - Revolver ...Summer 02 320
Rubber stamps for physical evidence containers ...Oct 81 74
Ruger - Automatic revolver conversion ...Mar 78 34
Ruger - Colt barrel ...Apr 80 23
Ruger - Consecutively machined bolt faces with striations that can be mistaken for individual characteristics ...Winter 00 19
Ruger - Hidden serial number on Bearcat ...Jan 81 44
Ruger - Mini-14 Stainless **Recall** ...Jul 81 6
Ruger - Model 10/22 (case study) ...Fall 97 401
Ruger - Model 10/22 breechfaces ...Fall 97 401
Ruger - Model 10/22 ejection by magazine and ejector ...Fall 97 401
Ruger - Model 10/22 firing pins ...Jul 88 325
Ruger - Model 10/22 firing pins ...Fall 97 401
Ruger - Model 10/22 rifle modified by removing stock and cutting barrel ...Winter 00 46
Ruger - Model 10/22 serial numbers starting with "120 -" ...Fall 97 401
Ruger - Model 10/22 with silencer (sound suppressor) ...Fall 01 332
Ruger - Model 77, .300 Win Mag, class characteristics ...Apr 88 205
Ruger - Model 77/22, .22WMR - Sprial GSR patterns ...Jul 95 247
Ruger - Model Bearcat "Old Model" (pre-1973) revolvers - **Safety warning/Recall** ...Winter 02 75
Ruger - Model Blackhawk "Old Model" (pre-1973) revolvers - **Safety warning/Recall** ...Winter 02 75
Ruger - Model Mark I pistols will discharge if dropped ...Apr 80 16
Ruger - Model Mark I pistol converted to full automatic ...Winter 00 47
Ruger - Model Mini-14, Stainless **Recall** ...Jul 81 6
Ruger - Model MKII target pistol - Anvil marks exhibit subclass characteristics ...Winter 03 75
Ruger - Model MP9 submachine gun ...Winter 97 80
Ruger - Model P-85 barrels consecutively rifled ...Summer 98 438
Ruger - Model P-85 **Safety warning** ...Jan 91 507
Ruger - Model P-89 slides consecutively manufactured ...Spring 2003 157
Ruger - Model Security Six and accidental discharge ...Oct 83 56
Ruger - Model Security-Six fitted with a Colt Python barrel ...Oct 91 1002
Ruger - Model Single-Six "Old Model" (pre-1973) revolvers - **Safety warning/Recall** ...Winter 02 75
Ruger - Model Speed-Six revolver with silencer ...Fall 99 473
Ruger - Serial number restoration on P Series aluminum alloy frames ...Winter 01 57
Ruger - Serial numbers ...Jul 76 77
Ruger - Serial numbers ...NLR 20 28
Ruger - Stainless Mini-14 **Recall** ...Jul 81 6
Russia - .22 caliber rimfires ...NLR 13 23
Russia - .22 rifle ...Oct 81 77
Russia - 5.56mm ammunition ...Fall 99 490
Russia - 7.62x39mm ammunition, Contemporary (keywds: Russian, M43, AK47, SKS, plastic base plug, polyethylene, Wolf, Barnaul, Tula, Ulyanovsk) ...Spring 01 152
Russia - AK-47 ...Jul 95 220
Russia - AN94 (Avtomat Nikonova) assault rifle ...Summer 01 275
Russia - Headstamp practices ...Oct 90 419

Russia - Laboratory visit ...Oct 90 419
Russia - Light machine gun - RPK ...NLR 15 25
Russia - MSP Groza (Quiet Thunderstorm) silenced ammunition ...Summer 97 375
Russia - PSS-1 pistol ...Summer 97 375
Russia - RPK ...NLR 14 25
Russia - S-4M pistol ...Summer 97 375
Russia - See also AK-47
Russia - SP-3 silenced pistol ammunition ...Summer 97 375
Rust - Cleaning firearms ...Feb 73 11
Rust - Effect on identification ...NLR 13 34
Rust - Item restoration ...Jul 81 29
Rust - Removal ...Oct 81 85
Rust - Restoration of a .38 caliber Belgian revolver ...Fall 99 476
SAAMI - Data Sheet of Unsafe arms and ammunition combinations ...Oct 90 421
SAAMI - Glossary - Part 1 ...Apr 74 28
SAAMI - Glossary - Part 2 ...Jun 74 20
SAAMI - Glossary - Part 3 ...Aug 74 21
SAAMI - Literature availability ...Jul 83 24
SAAMI - Standards ...Jan 84 6
Sabot from shotshell identified ...Winter 97 26
Sacco and Vanzetti case (**See also History**) ...Jul 85 13
Safe Deposit Box entry tool ...Jan 82 67
Safegom - Revolver ...Summer 02 320
Safes - Burglary tool ...Oct 81 114
Safes - Door hinge pin matched to damaged safe ...Jul 81 72
Safes - Drilled safe ...Oct 88 441
Safes - Gaffed safe ...Apr 89 226
Safes - Gaffed safe ...Jul 79 35
Safes - Overview ...Jul 83 16
Safes - Protectors ...Apr 88 196
Safes - Safe recognition ...NLR 7 11
Safes - Worksheet and overview ...Sep 78 32
Safeties - Air gun ...Apr 92 165
Safeties - Bryco, Jennings Nine, magazine safety problem ...Summer 99 379
Safeties - Crossbolt on Davis derringers ...Jul 90 310
Safeties - Fulton Arms "Smart Gun" ...Jan 95 65
Safeties - General history ...Oct 96 211
Safeties - Jar off ...Oct 90 390
Safeties - Lever action ...Jan 88 65
Safeties - Lorcin Model L-380 safety malfunction ...Apr 94 152
Safeties - Magazine ...Oct 93 301
Safeties - Magazine safety designs (trigger block, sear block, disconnecter, spring tension release, decocker) ...Winter 00 10
Safeties - Remington semiautomatic shotguns, design of safeties ...Jul 89 496
Safeties - Revolver, history ...Apr 89 309
Safeties - Revolver, history ...Oct 82 29
Safeties - Safety notches, historical review ...Jan 94 4
Safeties - Sherlockian-Victorian London, Part 1 ...Spring 98 283
Safeties - Sherlockian-Victorian London, Part 2 ...Fall 98 601
Safeties - Smith & Wesson pistols - Passive safety lock ...Oct 94 283
Safeties - Worksheet ...Jul 95 vii
Safety - Accidental discharge, Drop-fired or Fired and Dropped? ...Spring 00 154
Safety - Agape device ...Jul 83 17
Safety - Alarm for personnel in shooting room ...Fall 99 495
Safety - Ammunition ...Jul 84 190
Safety - Basic rules ...Jan 84 51
Safety - Battery discharges cartridge ...Jun 78 88
Safety - Battery not necessary for firing damaged Raven ...Apr 88 207
Safety - Black powder arms ...Apr 89 435
Safety - Black powder arms ...Jan 88 57
Safety - Black powder revolver loaded with smokeless ...Oct 81 115
Safety - Blood/Lead tests ...Mar 75 40

Safety - Bloody evidence made safe ...Apr 88 167
Safety - Bullet disinfectant ...Oct 89 618
Safety - Chemical reactivity ...Jul 82 38
Safety - Dangers in pulling explosive bullets ...Apr 81 14
Safety - Designs of revolvers ...Oct 91 931
Safety - Drop-fired cartridge ...Fall 00 352
Safety - Drop-fired or Fired and Dropped? ...Spring 00 154
Safety - False half cock ...Jul 77 179
Safety - False safety notch ...Oct 89 580
Safety - Fire in an indoor range ...Apr 89 424
Safety - Firearms safety in the laboratory ...Winter 97 37
Safety - Full metal jacketed bullets in tubular magazines ...Jun 78 68
Safety - General ...Jul 88 328
Safety - Glasses, safety - Protective optics ...Jan 92 80
Safety - Glock accidental discharge by key on gunbelt when holstering ...Summer 97 294
Safety - Gunfire as a hazard to fetal development ...Winter 00 25
Safety - Hazards of firing homemade firearms ...Mar 76 55
Safety - Indoor range fire ...Jul 87 266
Safety - Inoperable firearm accidents ...Jan 89 85
Safety - Jar off ...Oct 90 390
Safety - Lead levels in blood ...Jul 85 95
Safety - Lead poisoning of shooters ...Oct 80 101
Safety - Lead pollution reduced by use of jacketed bullets ...Apr 79 53
Safety - Lorcin, Bryco, and related pistols, Accidental discharge potential ...Winter 01 48
Safety - Lubricants causing misfires ...Feb 73 10
Safety - Malfunction worksheet ...Jan 83 100
Safety - Noise levels, test firing ...Jul 85 95
Safety - Pistol/magazine mismatch results in accidental discharge ...Fall 99 483
Safety - Prior examination of firearms ref. accidental discharge ...Oct 91 908
Safety - Safe protectors (tear gas or explosive) ...Apr 88 196
Safety - Screws penetrate chamber ...Dec 75 69
Safety - Shotgun shell possibly faulty ...Jul 90 315
Safety - Slam fire (accidental discharge) ...Apr 85 56
Safety - Space Face Shield ...Jul 91 867
Safety - Sterilizing bullets ...Apr 90 131
Safety - Temperature initiated accidental discharge ...Jul 91 849
Safety - Temperature Initiated Discharge ...Jul 91 849
Safety - Test firing a ruptured shotgun barrel ...Spring 97 188
Safety - Trigger shoes ...Dec 76 64
Safety - Tuberculosis ...Jul 86 14
Safety - Two barrel failures in two days ...Summer 02 310
Safety - Unsafe combinations of ammunition and arms ...Oct 90 420
Safety - Use correct ammunition ...Jul 80 87
Safety alarm, for personnel in shooting room ...Fall 99 495
Safety notches - historical review ...Jan 94 4
Safety Recall - See **Safety warnings**
Safety warning - AK47, booby-trapped rifles ...Jul 91 801
Safety warning - American Firearms Mfg. Co. - Model Stainless Steel O/U Derringer, .38 Special caliber pistol ...Winter 02 57
Safety warning - Ammunition, surplus ...Jan 93 12
Safety warning - Arminius Model HW3 hammerblock failure ...Oct 93 286
Safety warning - Bauer .25 Auto Accidental discharge ...Jan 82 62
Safety warning - Benelli Model M1 Super 90, bolt assembly, Accidental discharge ...Oct 91 908
Safety warning - Beretta Model 20 discharged in pocket ...Apr 88 209
Safety warning - Blaser rifle ...Jan 91 507
Safety warning - Blazer ammunition not for rifles ...Jul 83 12
Safety warning - Browning .22 Magnum A-bolt rifles ...Jul 90 329
Safety warning - Browning Model BLR, Long action rifles ...Winter 02 17
Safety warning - Browning Model Hi-power accidental discharge ...Oct 96 233
Safety warning - Bryco Arms Model 38, .380 ACP caliber semiautomatic pistol ...Winter 02 59
Safety warning - Bryco Arms Model Jennings Nine spontaneously fires full-auto due to sear tip wear ...Spring 01 143
Safety warning - Bryco Arms Model Jennings Nine, 9mm Luger caliber semiautomatic pistol ...Winter 02 60

- Safety warning - Bryco Arms Model Jennings Nine, magazine safety problem ...Summer 99 379
- Safety warning - Calico, Model M-100/Model M-100P slam firing ...Summer 98 527
- Safety warning - Calico, Model M-950, accidental discharge ...Fal 00 381
- Safety warning - Cartridge discharged by ejector pressure on primer ...Jul 80 48
- Safety warning - Cartridges in magazine detonated by bullet impact ...Oct 81 110
- Safety warning - CBC 7.62mm x 51mm cartridges ...Apr 92 198, ...Jan 93 12
- Safety warning - Cobray pistol ...Jan 90 43
- Safety warning - Colt Model 1911 with long firing pin, drop test ...Spring 97 183
- Safety warning - Colt Model CLR2064SRBL, .30-06 Springfield caliber, Light rifles...Winter 02 61
- Safety warning - Connecticut Valley Arms In-Line Muzzleloading Rifles manufactured in 1995 and 1996 ...Fall 99 500
- Safety warning - COP derringer doubling ...Jan 82 44
- Safety warning - Crosman Model 3100 air rifles ...Oct 90 452 & Winter 02 62
- Safety warning - Czech, Model 52, 7.62mm Tokarev caliber pistols, Model CZ52, defective hammer drop safety ...Fall 99 500
- Safety warning - Federal Large Pistol Primers ...Jul 91 802
- Safety warning - Filli. Pietta Model PPS/50 automatic conversion ...Apr 90 174
- Safety warning - Flintlocks with uranium on frizzen ...Jul 93 240
- Safety warning - Forensic Examiner's Firearms and Ammunition **Recall/Safety warning** List ...Fall 99 500
- Safety warning - Franchi Model SPAS 12, Model SAS 12 & Model LAW 12 shotguns - **Recall** ...Jan 90 87
- Safety warning - Franchi Model SPAS 12, Model SAS 12 & Model LAW 12 shotguns - **Recall** ...Jul 91 801
- Safety warning - Franchi Model SPAS 12, Model SAS 12 & Model LAW 12 shotguns - **Recall** ...Winter 02 63
- Safety warning - Glock - Model 19, barrel failure (not a Glock barrel) ...Summer 02 310
- Safety warning - Glock accidental discharge ...Jul 93 206
- Safety warning - Glock Model 19 ...Apr 90 227
- Safety warning - Glock Model 19, 9mm Luger caliber, Serial number prefix AN, BP, BR, BV, BW, BX, DL, DM, DN, DP, DR, DS, DT, DV, DW, DX, DY, & DZ ...Winter 02 65
- Safety warning - Glock Model 26, 9mm caliber, Serial number prefix DGU, DHR, & DKU ...Winter 02 64
- Safety warning - Glock Model 27, .40 S&W caliber, Serial number prefix DGD, DGV, DHS, DHT, DKV, DKW, & DKX ...Winter 02 64
- Safety warning - Golden West Model 781DL ...Jan 82 6
- Safety warning - Hammerblock failures ...Oct 93 286
- Safety warning - Hazardous ammunition with "HP" on headstamp ...Spring 97 173
- Safety warning - Hiawatha Model 587 ...Jan 82 6
- Safety warning - HJS Industry Inc., Sharps four barrel pistol, Accidental discharge ...Jan 96 55
- Safety warning - Hoppe's warning ...Oct 81 5
- Safety warning - IMI Galil ...Jul 85 62
- Safety warning - IMI Galil ...Oct 85 3
- Safety warning - Interdynamics Model KG-99 ...Apr 85 88
- Safety warning - Interdynamics Model KG-99 ...Jul 84 24
- Safety warning - Interdynamics Model KG-99, 9mm Luger caliber pistol ...Winter 02 66
- Safety warning - Intratec - Model TEC-9 - Polymer frame damage may allow accidental firing or full automatic ...Fall 2002 480
- Safety warning - Intratec Model CAT-9, 9mm Luger caliber pistol - **Recall** ...Winter 02 68
- Safety warning - Intratec Model TEC-22 Scorpion pistol ...Jan 90 51
- Safety warning - Intratec Model TEC-9, 9mm Luger caliber pistol ...Winter 02 67
- Safety warning - Intratec, Model TEC 9 full auto modification may be unreliable ...Winter 02 49
- Safety warning - Ithaca Model 37 Police shotgun - Accidental discharge ...Mar 75 37
- Safety warning - Jennings - Model J-22, Accidental discharge when dropped ...Summer 02 306
- Safety warning - Jennings Model J-22, .22 Long Rifle caliber semiautomatic pistol ...Winter 02 69
- Safety warning - Llama Model IX-A, .45 ACP caliber, pistols ...Winter 02 70
- Safety warning - Llama Model XI ...Apr 85 80
- Safety warning - Llama Model XI-B (9mm) and Model IX-A (.45) pistols ...Apr 92 197
- Safety warning - Llama Model XI-B, 9mm Luger caliber, pistols ...Winter 02 70
- Safety warning - Llama Model XV and Stinger or Mini-Mag ammunition ...Mar 78 10
- Safety warning - Lorcin .25 pistol failure during test firing ...Jul 92 242
- Safety warning - Lorcin .25 pistol failure during test firing ...Jul 92 242
- Safety warning - Lorcin Model L-380 safety malfunction ...Apr 94 152
- Safety warning - Lorcin Model L-380, .380 ACP caliber, semiautomatic pistols ...Winter 02 71
- Safety warning - Magna-Trigger safety ...Mar 78 29
- Safety warning - Magtech ammo, .45 ACP ...Apr 93 151
- Safety warning - Magtech model 7022 rifles, recoil buffer failures ...Fall 00 382
- Safety warning - Mossberg Model 695, 12 gauge, bolt action shotguns, serial numbers M000101 through M015304 - **Recall** ...Winter 02

Safety warning - Pen gun ...Oct 90 448
Safety warning - Phoenix Arms - Raven pistol accidental discharge ...Spring 98 352
Safety warning - Pistol/magazine mismatch results in accidental discharge ...Fall 99 483
Safety warning - Recall/Safety warning list for Firearms & Ammunition - 2000 Update, availability ...Fall 00 380
Safety warning - Recall/warning list for firearms and ammunition ...Spring 98 417
Safety warning - Remington .38 Special ammunition - Recall ...Jan 87 7
Safety warning - Remington 12 gauge, 1 oz. slugs, SP12RS-5PK, Slugger, 2-3/4", Lot number AT01H218 - Recall ...Winter 02 83
Safety warning - Remington 6mm Remington caliber ammunition, Index numbers R6MM1 or R6MM2 - Recall ...Winter 02 83
Safety warning - Remington 7mm Express Remington - High pressures ...Oct 80 103
Safety warning - Remington ammunition - Recall ...Jul 81 6
Safety warning - Remington Derringer sympathetic discharge ...Jul 96 147
Safety warning - Remington Model 600, rifles - Recall ...Winter 02 73
Safety warning - Remington Model 660, rifles - Recall ...Winter 02 73
Safety warning - Remington Model 700 rifle .17 Rem. Caliber ...Apr 90 227
Safety warning - Remington Model 700, .17 Remington caliber, rifle - Recall ...Winter 02 74
Safety warning - Remington Model Mohawk 600, rifles - Recall ...Winter 02 73
Safety warning - Remington Mohawk Model 600, Remington Model 600 & Model 660, Model XP100 - Recall ...Jan 79 19
Safety warning - Revelation Model 135 and Model 160 ...Jan 82 6
Safety warning - Rhoner - Sportwaffen Model 115, Accidental discharge and design defect ...Summer 01 253
Safety warning - Rohm Model RG-25 accidental discharge ...Feb 73 25
Safety warning - Rohm RG .25 ACP pistol ...Jan 90 47
Safety warning - Ruger Mark 1 pistols discharging ...Apr 80 16
Safety warning - Ruger Model Bearcat "Old Model" (pre-1973) revolvers - Recall ...Winter 02 75
Safety warning - Ruger Model Blackhawk "Old Model" (pre-1973) revolvers - Recall ...Winter 02 75
Safety warning - Ruger Model P-85 ...Jan 91 507
Safety warning - Ruger Model Security Six & other dbl action revolvers ...Oct 83 56
Safety warning - Ruger Model Single-Six "Old Model" (pre-1973) revolvers - Recall ...Winter 02 75
Safety warning - Ruger Stainless Model Mini-14 - Recall ...Jul 81 6 & Winter 02 76
Safety warning - Savage .30-30 rifle ...Oct 83 5
Safety warning - Savage Model 110E shock discharge ...Jan 94 2
Safety warning - Sears Model 2200 ...Jan 82 6
Safety warning - Sig Sauer concerning replacement grips ...Oct 89 656
Safety warning - Smith & Wesson .45 ACP caliber pistol magazines ...Apr 90 227
Safety warning - Smith & Wesson 3rd generation grip breakage ...Oct 90 452
Safety warning - Smith & Wesson double action pistols, trigger staging ...Jan 92 80
Safety warning - Smith & Wesson L frame ...Oct 87 392
Safety warning - Smith & Wesson Model 1006 pistols ...Winter 02 78
Safety warning - Smith & Wesson Model 1026 pistols - Recall ...Winter 02 77
Safety warning - Smith & Wesson Model 1066 pistols ...Winter 02 78
Safety warning - Smith & Wesson Model 1076 pistols - Recall ...Winter 02 77
Safety warning - Smith & Wesson Model 3904 pistols ...Winter 02 78
Safety warning - Smith & Wesson Model 3906 pistols ...Winter 02 78
Safety warning - Smith & Wesson Model 3913 pistols ...Winter 02 78
Safety warning - Smith & Wesson Model 3913LS pistols ...Winter 02 78
Safety warning - Smith & Wesson Model 4506 pistols ...Winter 02 78
Safety warning - Smith & Wesson Model 4506, .45 ACP caliber, pistol magazines ...Winter 02 79
Safety warning - Smith & Wesson Model 4516 pistols ...Winter 02 78
Safety warning - Smith & Wesson Model 4516, .45 ACP caliber, pistol magazines ...Winter 02 79
Safety warning - Smith & Wesson Model 4516-1 pistols ...Winter 02 78
Safety warning - Smith & Wesson Model 4526 pistols - Recall ...Winter 02 77
Safety warning - Smith & Wesson Model 4536 pistols - Recall ...Winter 02 77
Safety warning - Smith & Wesson Model 4576 pistols - Recall ...Winter 02 77
Safety warning - Smith & Wesson Model 59 manual safety fracture ...Oct 88 454
Safety warning - Smith & Wesson Model 5903 pistols ...Winter 02 78
Safety warning - Smith & Wesson Model 5904 pistols ...Winter 02 78
Safety warning - Smith & Wesson Model 5906 pistols ...Winter 02 78
Safety warning - Smith & Wesson Model 5924 pistols - Recall ...Winter 02 77
Safety warning - Smith & Wesson Model 5926 pistols - Recall ...Winter 02 77
Safety warning - Smith & Wesson Model 5946 pistols ...Winter 02 78
Safety warning - Smith & Wesson Model 645, .45 ACP caliber, pistol magazines ...Winter 02 79
Safety warning - Smith & Wesson Model 659 accidental discharge ...Jan 94 18

Safety warning - Smith & Wesson Model 6904 pistols ...Winter 02 78
Safety warning - Smith & Wesson Model 6924 pistols - **Recall** ...Winter 02 77
Safety warning - Smith & Wesson Model 6926 pistols - **Recall** ...Winter 02 77
Safety warning - Smith & Wesson Model 6946 pistols ...Winter 02 78
Safety warning - Smith & Wesson Model 745, .45 ACP caliber, pistol magazines ...Winter 02 79
Safety warning - Smith & Wesson Model 916-T shotgun - **Recall** ...Winter 02 80
Safety warning - Smith & Wesson Model 916T shotguns ...Jan 79 22
Safety warning - Smith & Wesson pistol-frame mounted decockg lever ...Oct 91 939
Safety warning - Smith & Wesson revolver hammer rivet malfunction ...Jul 91 854
Safety warning - Smith & Wesson Semiautomatic pistols ...Jul 86 68
Safety warning - Smith & Wesson trigger stop service recommended ...Jan 79 22
Safety warning - Springfield Model 187 and Model 187TS ...Jan 82 6
Safety warning - Star, Model B, 9mm Luger, discharges when dropped if loaded with .38 Super ...Summer 98 514
Safety warning - Stevens Model 80, Model 88, Model 887 ...Jan 82 6
Safety warning - Stoeger Luger ...Jan 90 47
Safety warning - Taurus malfunction - Several Models ...Jun 78 33
Safety warning - Taurus Model 60 malfunction ...Jun 78 30
Safety warning - Trigger shoes unsafe ...Oct 81 92
Safety warning - UZI carbine, Accidental discharge ...Jul 89 503
Safety warning - Uzi semiautomatic carbine ...Jul 84 19
Safety warning - Uzi, Misuse of sub-machinegun selector results in continued discharge ...Winter 00 28
Safety warning - Vektor - Model CP1, 9mm caliber, semiautomatic pistol - **Recall** ...Winter 02 81
Safety warning - Walther Model P-38 - Fires without pulling trigger ...Jul 95 233 & Correction ...Oct 95 327
Safety warning - Walther Model P5 and Model P7 ...Jul 90 339
Safety warning - Westpoint Model 487T ...Jan 82 6
Safety warning - Winchester .22 Long Rifle caliber, subsonic, Lot number EK72 ammunition - **Recall** ...Winter 02 83
Safety warning - Winchester .22 LR ammo ...Jul 92 253
Safety warning - Winchester Model 100 rifles and carbines ...Oct 90 452
Safety warning - Winchester Model 1001 shotguns - **Recall** ...Winter 02 82
Safety warning - Winchester Model 1917 Enfield, barrel failure ...Summer 02 310
Safety warning - Winchester Model 490 .22 rifles ...Mar 76 28
Safety warning - Winchester/US Reapeating Arms Co. Model 70 rifles, sling swivel problem ...Fall 00 383
Safety warning ~ Comprehensive list ...Winter 02 86
Saint Valentine day massacre ...Jan 80 44
Sako - .38 Special cartridge with grooved bullet ...NLR 2 27
Salary survey ...Jan 85 151
Salvo Squeezebore ...Dec 73 33
Sampling, random, of firearms collection ...Jul 85 83
Sardius Ind. Ltd. - Model SD9 semiautomatic pistol ...Summer 02 319
SATA - Semiautomatic pistol ...NLR 8 23
SATA ...NLR 11 23
Saturday Night Special case ...Apr 86 77
Saturday Night Specials, list ...Oct 88 449
Savage - Class characteristics ...Oct 72 29
Savage - Conversion to full auto, 1917 Pistol ...Jul 91 870
Savage - Manufacturing facility, general info & serial numbers ...Fall 97 487
Savage - Model 110E shock discharge ...Jan 94 2
Savage - Possible malfunction of .30-30 rifle ...Oct 83 5
Savage - Sears compatible model designations ...NLR 14 19
Savage - Sears stock numbers ...Jun 78 54
Savage - Serial number locations and ranges ...NLR 7 13
Savage - Serial numbers ...Aug 72 37
Savage - Serial numbers ...NLR 16 21
Savage - Serial numbers ...Oct 72 33
Sawn off barrel, bullet identification ...Summer 00 294
Scanning electron microscope - Applicability ...Jul 92 294
Scanning electron microscope - Comparison ...Apr 83 47
Scanning electron microscope - Comparison ...Jul 83 141
Scanning electron microscope - See also Microscopes & techniques
Scanning electron microscope - Trace evidence on bullets ...Oct 87 388
Scanning electron microscope - Used to identify gunshot residues ...Apr 90 135

Scene investigations - See **Crime Scenes**
Scene reconstruction - See **Crime Scenes**
Scholarship application ...Jan 94 xi
Scholarships - Rotary Group Study Exchange Program ...Summer 01 260
Scientific method - Daubert criteria for admissibility ...Winter 98 3
Scientific methods, advances in - Firearms Report - Speaking Paper 1998 - 2001 ...Fall 2002 362
Scientific reliability, publication, peer review, in-depth discussion ...Spring 00 132
Scientific Sleuthing Newsletter ...Apr 83 19
Scientists or Factory workers? ...Apr 89 119
Scopes - See **Telescopic sights** or **Microscopes**
Scot - powder ...Jan 90 55
Screen wire - Shotgun holes ...NLR 17 26
Screw, Toolmark identification ...Apr 83 97
Screwdriver manufacture ...Mar 76 29
Screwdrivers - Examination of consecutively manufactured (slotted) ...Winter 03 66
Sealed beam bulb disassembly ...Oct 90 434
Sear block - See **Safeties**
Sears - Compatible model designations ...NLR 14 19
Sears - Firearms source and stock numbers ...Jun 78 54
Sears - Model 2200 **Recall** ...Jan 82 6
Sears - Selling Winchester and Hirtenberg ammunition ...Aug 74 14
Sears - Serial numbers ...Aug 72 37
Sears - Serial numbers ...NLR 15 18
Sears - Serial numbers ...NLR 16 21
Security Industries of America - Serial numbering practices ...Oct 82 10
Sedco Ind. - Model SP-22 ...Apr 90 195
Sedco Ind. - Model SP-22 Semiautomatic pistol ...Spring 99 141
Seecamp - .25 Auto, double action ...Oct 82 8
Seecamp - **See also TMW**
Selector pistol ...NLR 16 22
Sellier & Bellot - 12 gauge, 2¾ in., 00 buckshot, 12 pellet, clear plastic hull, clear plastic top wad, fiber filler wad, card over-powder wad, plated steel head ...Spring 2003 242
SEM - See **Scanning Electron Microscope**
Semi-automatic firearms - Rates of fire ...Summer 00 252
Semiautomatic pistol cleaning ...Jan 93 40
Sequence of firing - Determination of firing sequence by case marks ...Jul 95 237
Sequence of shots - Involving two 303 British Cartridges ...Jul 91 816
Sequence of shots ...Jul 87 325
Sequence of tests for gunshot residues ...Winter 99 3
Sequential manufacture - See **Consecutive manufacture**
Serial Number Engraved by Laser: A Preliminary Study ...Summer 01 280
Serial number restoration - Altering a serial number and the firearm itself to conceal the alteration ...Spring 01 133
Serial number restoration - Barcode, laser-etched restoration ...Summer 02 264
Serial number restoration - Cases ...Jul 87 276
Serial number restoration - Colt, All American, Model 2000 ...Winter 02 48
Serial number restoration - Etchants ...Jul 75 80
Serial number restoration - Griffin's reagent for stainless steel ...Fall 99 497
Serial number restoration - Hidden numbers eliminated from S&Ws ...Apr 80 14
Serial number restoration - Image enhancement by Drugfire computer ...Spring 97 223
Serial number restoration - Laser-Etched Firearm Identifiers ...Summer 02 264
Serial number restoration - Lemon juice ...Apr 95 xiv
Serial number restoration - Magnetic ...NLR 7 26
Serial number restoration - Metallurgical aspects ...Apr 89 174
Serial number restoration - Metallurgical aspects ...Jul 75 38
Serial number restoration - Modern marking and serial numbering methods ...Summer 99 309
Serial number restoration - Non-destructive methods ...Mar 77 23
Serial number restoration - Overstamp ...Jul 84 12
Serial number restoration - Plastic ...Apr 81 30
Serial number restoration - Plastic ...Oct 81 40
Serial number restoration - Plastic ...Summer 99 378
Serial number restoration - Plastic, radar detector ...Jul 87 304

Serial number restoration - Plastics using a heat gun ...Fall 00 367
Serial number restoration - Polymer or plastic framed firearms - Serial number plate with a negative impression on the back ...Winter 02
48
Serial number restoration - Power pack ...Jul 80 82
Serial number restoration - Radar detector, hidden number ...Jul 84 10
Serial number restoration - Ruger P Series aluminum alloy frames ...Winter 01 57
Serial number restoration - Second number on Taurus 80 ...Apr 80 18
Serial number restoration - Security Ind. of America, practices ...Oct 82 11
Serial number restoration - Serial number plate with a negative impression on the back (polymer or plastic framed firearms) ...Winter 02
48
Serial number restoration - Superior Wheel - mirror-like finishes ...Oct 82 9
Serial number restoration - Techniques and Formulae ...Jul 76 26
Serial number restoration - Ultrasonic technique ...Dec 75 80
Serial number restoration - VIN plate alterations ...Apr 83 18
Serial number restoration - Welded numbers ...Fall 98 649
Serial number restoration - Zinc alloy formula (RG, Clerke, Raven) ...Jul 85 63
Serial number restoration ...Aug 72 38
Serial number restoration ...NLR 20 32
Serial number restoration ...NLR 4 38
Serial numbers - Abrasive wheels for preparation ...Jan 96 21
Serial numbers - AK-47, alternate locations ...Jan 96 22
Serial numbers - Antique firearms ...NLR 5 8
Serial numbers - Bee Miller - Hi-Point 40 and 45 caliber polymer framed pistols - hidden serial numbers ...Spring 2003 243
Serial numbers - BEE Miller - Hi-Point firearms, hidden serial number ...Summer 01 273
Serial numbers - Beretta ...Oct 72 28
Serial numbers - Browning ...Apr 85 22
Serial numbers - Browning ...Apr 89 437
Serial numbers - Browning ...Jan 88 59
Serial numbers - Colt (antique) ...NLR 15 18
Serial numbers - Colt ...NLR 14 18
Serial numbers - Colt ...NLR 19 40
Serial numbers - Colt changed number? ...Mar 76 86
Serial numbers - Dan Wesson ...Aug 72 23
Serial numbers - German manufacturers ...Aug 72 20
Serial numbers - Glock pistols ...Jul 92 314
Serial numbers - H&R ...NLR 20 24
Serial numbers - H&R ...Oct 72 22
Serial numbers - Hidden number on Smith & Wesson SW9F ...Spring 97 186
Serial numbers - Hidden numbers on Passport radar detectors ...Jul 89 502
Serial numbers - Hidden serial numbers on BEE Miller, Hi-Point firearms ...Summer 01 273
Serial numbers - High Standard ...Jun 73 16
Serial numbers - Ithaca ...NLR 5 16
Serial numbers - Laser engraved, a preliminary study ...Summer 01 280
Serial numbers - Marlin ...Oct 72 20
Serial numbers - Mausers ...Apr 74 28
Serial numbers - Modern marking and serial numbering methods ...Summer 99 309
Serial numbers - Mossberg ...Aug 72 37
Serial numbers - Mossberg ...NLR 16 21
Serial numbers - Norinco, Model 54-1, 7.62x25mm caliber, "Tokarev" pistol, hidden numbers ...Winter 00 52
Serial numbers - Obliterated number tracking program ...Oct 95 264
Serial numbers - Obliteration methods ...Apr 89 166
Serial numbers - Obliteration methods ...Mar 75 27
Serial numbers - Obliteration methods ...Mar 75 30
Serial numbers - Patent dates to find out Manufacturer ...Apr 73 10
Serial numbers - Patent dates to find out Manufacturer ...Feb 73 16
Serial numbers - Polishing for "one-swab" restorations ...Summer 97 288
Serial numbers - Ranger ...NLR 15 18
Serial numbers - Rohm ...Aug 72 19
Serial numbers - Roman numerals on Italian made firearms ...Aug 72 18
Serial numbers - Ruger ...Jul 76 77
Serial numbers - Ruger ...NLR 20 28

Serial numbers - Savage ...Aug 72 37
Serial numbers - Savage ...NLR 16 21
Serial numbers - Savage ...Oct 72 33
Serial numbers - Sears ...Aug 72 37
Serial numbers - Sears ...NLR 15 18
Serial numbers - Sears ...NLR 16 21
Serial numbers - Smith & Wesson ...Aug 72 16
Serial numbers - Spanish ...Aug 72 46
Serial numbers - Star ...Oct 73 6
Serial numbers - Stevens ...NLR 15 18
Serial numbers - Stevens ...Oct 72 33
Serial numbers - Two H & R 1905s with same serial number ...Dec 75 81
Serial numbers - Wards "Western Field" ...Oct 72 16
Serial numbers - Wards ...Aug 72 37
Serial numbers - Wards ...NLR 16 21
Serial numbers - Winchester (antique) ...NLR 15 18
Serial numbers - Winchester ...NLR 14 18
SFM - See Socete Francaise Munitions
Shark Bang stick power head ...Dec 75 58
Shark gun ...Apr 79 86
Sharp injuries ...Apr 89 355
Sharps four barrel pistol (replica by HJS), accidental discharge ...Jan 96 55
Shearing marks from a silencer ...Fall 99 489
Sheet metal penetration and perforation by bullets ...Fall 97 431
Sheet metal perforation by 5.56 x 45mm SS109/M855 bullets ...Winter 01 20
Shell Shrinker - Conversion kit ...Dec 76 69
Shell shrinker ...NLR 3 9
Sheridan - See **Air guns**
Sherwood International Export Corp. ...Jul 88 317
Shock sensitivity of trigger mechanisms ...Apr 89 382
Shock sensitivity of trigger mechanisms ...Oct 85 4
Shoe prints - Casting, Showprint-Wax ...Apr 83 77
Shoe prints - Detection & correction of photographic inaccuracies ...Jul 87 271
Shoe prints - Dust on Plexiglas ...Oct 81 26
Shoe prints - Macroscopic comparison using transparency film ...Summer 99 367
Shoe prints - Nail holes in heel used for identification ...NLR 7 29
Shoe prints - Photography of shoe soles ...Jul 87 295
Shoe prints - Photography techniques ...Apr 83 91
Shoe prints - Photography techniques ...Apr 83 95
Shoe prints - Photography using ultra-high contrast techniques ...Jul 84 113
Shoe prints - Recent innovations ...Jul 84 123
Shoe prints - Recovery of flooring ...Jul 84 119
Shoe prints - Sulfur casting ...Apr 80 15
Shoe prints - Test impressions on clear plastic sheets ...Jul 77 47
Shoe prints - Test print medium ...Apr 83 96
Shoe prints - Two dimensional standards ...Mar 77 7
Shok-Baton ...NLR 14 26
Shok-lock - See **AVON**
Shooting Ranges - Commercial Shooting Ranges (book) ...Oct 82 9
Shooting reconstruction - See **Crime scenes**
Shortened Colt Model M-16 rifle ...Summer 02 307
Shot in handgun ammo - See **Glazer** or **MagSafe**
Shot patterns and barrel length ...NLR 11 26
Shot size determination in 12 gauge plastic wads ...Summer 01 267
Shot spread reducing and shot spread eliminating shotgun wads ...Fall 00 361
Shotgun - Rifled barrel (homemade) ...Summer 02 311
Shotgun components - 00 Buckshot ballistics ...Spring 02 148
Shotguns - .45 Auto barrel glued inside 12 gauge barrel ...NLR 13 26
Shotguns - Accidental discharge of double barrel ...Oct 91 973
Shotguns - Anvil impressions ...Winter 99 9
Shotguns - Barrel length and shot patterns ...NLR 11 26

Shotguns - Barrels, rifled ...Jan 87 14
Shotguns - Bent barrel ...Jan 80 31
Shotguns - Blown pattern ...Oct 81 30
Shotguns - Centerfire ammunition fired in shotgun ...Winter 97 24
Shotguns - Chokes, Patterns, and performance ...Oct 88 421
Shotguns - Damascus barrels ...Oct 91 973
Shotguns - Distance determination ...Dec 75 66
Shotguns - Distance determination based on shotgun pellet pattern density ...Spring 02 177
Shotguns - Distance determination using pellet to pellet average distance ...Spring 02 139
Shotguns - Double discharge ...Oct 91 973
Shotguns - Effects of glass on shotgun patterns ...Oct 79 54
Shotguns - European chokes ...Mar 76 84
Shotguns - Graphic pellet patterns ...Oct 89 593
Shotguns - Magazine spring retainer removal tool ...Oct 90 454
Shotguns - Modified to resemble "Grease gun" ...Oct 81 58
Shotguns - Mossberg C-Lect-Choke class characteristics of shotguns ...Oct 90 401
Shotguns - Obsolete brands and Models ...Jul 83 25
Shotguns - Oriental brand bar action ...Oct 91 973
Shotguns - Overview ...Jul 84 163
Shotguns - Overview of related crime scene evidence ...Jul 77 111
Shotguns - Pattern counting aid ...Jul 83 24
Shotguns - Patterns, Chokes, and Performance ...Oct 88 421
Shotguns - Range of shot pellets ...NLR 12 4
Shotguns - Range of shot pellets ...NLR 20 36
Shotguns - Remington, Slide action - History ...Apr 89 453
Shotguns - Rifled barrel effects on patterns ...Jul 92 246
Shotguns - Rifled barrel effects on pellet patterns ...Spring 99 138
Shotguns - Ruptured barrel test firing ...Spring 97 188
Shotguns - Sawed off and shot patterns ...NLR 8 26
Shotguns - Sawed-off with a hacksaw, marks plastic wads ...Spring 2003 161
Shotguns - See also Distance determination
Shotguns - Shot pattern protocol ...Jan 91 511
Shotguns - Shotgun evidence - Comprehensive overview ...Sep 78 10
Shotguns - Shotgun shell possibly faulty ...Jul 90 315
Shotguns - Silenced (disguised) ...Apr 95 154
Shotguns - Spreader loads ...Summer 97 300
Shotguns - Thompson/Center Contender .45 Colt through .410 choke ...Mar 75 25
Shotguns - Time since discharge, Firearms Report Review Paper - 1998-2001 ...Fall 2002 409 (two references)
Shotguns - Wounds ...Jan 80 11
Shotshell buffers - See **Shotshells & components**
Shotshells & components - .410 slug fired in a .45 Colt handgun ...Oct 81 90
Shotshells & components - 00 buckshot pellet identification ...Oct 96 252
Shotshells & components - 00B pellets combining into one ...Jul 81 20
Shotshells & components - 12 gauge in 16 gauge shotgun ...Jul 83 14
Shotshells & components - 12 gauge/500 Sabot bullet ...NLR 9 40
Shotshells & components - Aguila 12 gauge Mini-shells ...Spring 00 167
Shotshells & components - All plastic shells ...Oct 89 635
Shotshells & components - Altered with steel balls and sheet lead ...Spring 97 231
Shotshells & components - Armor Piercing (finned lead slug with steel rod), Specialty shotgun ammunition from Firequest ...Spring 01
162
Shotshells & components - Ballistics, exterior (external) and terminal of 00 buckshot ...Winter 03 25
Shotshells & components - Battery cup manufacturing marks ...Winter 99 31
Shotshells & components - Birdshot load in black powder revolver ...Apr 83 8
Shotshells & components - Buckshot - A Reassembled Load ...Jul 91 792
Shotshells & components - Buckshot patterning variation & meas. using equivalent circle dia. method ...Summer 98 455
Shotshells & components - Buckshot trajectories ...Apr 89 457
Shotshells & components - Buckshot trajectories ...Oct 88 404
Shotshells & components - Buffer, in trajectory determination ...Jul 84 132
Shotshells & components - Buffers ...Apr 83 26
Shotshells & components - Buffers ...Apr 83 31
Shotshells & components - Buffers ...Apr 89 326

Shotshells & components - Buffers, analysis and comparison ...Summer 00 277

Shotshells & components - Chain Mail (7" to 10" steel chain & #12 lead shot) , Specialty shotgun ammunition from Firequest ...Spring 01 162

Shotshells & components - Chemical aspects of pellets and slugs ...Oct 90 364

Shotshells & components - Choke™ 12 gauge 00 Buckshot loads, wounding effects ...Summer 02 287

Shotshells & components - Copper sabot slugs (Remington and Federal) ...Summer 00 301

Shotshells & components - Cubic shot ...Oct 88 435

Shotshells & components - Customized shotshells ...Oct 88 451

Shotshells & components - Designations and interpretations ...Jul 82 46

Shotshells & components - Dimes loaded into shotshell ...Oct 81 73

Shotshells & components - Door Duster (plastic & cardboard sealed shot cup with #12 lead shot), Specialty shotgun ammunition from Firequest ...Spring 01 162

Shotshells & components - Double Slug (two copper slugs), Specialty shotgun ammunition from Firequest ...Spring 01 162

Shotshells & components - Ejector cut-out marks in shotguns, Comparison value ...Fall 2002 391

Shotshells & components - Elemental analysis of lead shot ...NLR 2 25

Shotshells & components - Examination of plastic cases ...Jan 87 17

Shotshells & components - Federal - 20 gauge filler wads used in 12 gauge shot shells ...Apr 96 92

Shotshells & components - Federal Cartridge Co. Tour report ...Summer 02 316

Shotshells & components - Fiocchi 00 Buck HV 12 Ga. Load, 1 oz. 9 pellets ...Fall 97 460

Shotshells & components - Flame Thrower (incendiary), Specialty shotgun ammunition from Firequest ...Spring 01 162

Shotshells & components - Flechette (c. 20 1½" darts), Specialty shotgun ammunition from Firequest ...Spring 01 162

Shotshells & components - Forcing cone marks ...Apr 81 31

Shotshells & components - Handgun ammunition ...Apr 84 108

Shotshells & components - Jacketed shot projectiles by MagSafe, specifications ...Fall 99 461

Shotshells & components - Macho Gaucho (lead balls & wire), Specialty shotgun ammunition from Firequest ...Spring 01 162

Shotshells & components - Manufacturers toolmarks on rim ...Jan 79 33

Shotshells & components - Manufacturing marks on 12 Ga. ...Spring 97 170

Shotshells & components - Manufacturing marks on Sears 12 ga ...Apr 74 22

Shotshells & components - Marble used to initiate primer ...Jan 94 23

Shotshells & components - Modi-Pac ...NLR 11 14

Shotshells & components - Number of firings of plastic bodied shotshells ...Winter 02 11

Shotshells & components - Pellet and slug matching ...Jan 92 28

Shotshells & components - Pellet counting device ...Jul 83 24

Shotshells & components - Pellet number per weight of load ...Apr 93 114

Shotshells & components - Piranha (flat-head tacks & #12 lead shot), Specialty shotgun ammunition from Firequest ...Spring 01 162

Shotshells & components - Plastic bodied shotshells, number of firings ...Winter 02 11

Shotshells & components - Plastic insert in rifled slugs ...Jul 96 192

Shotshells & components - Plastic wads with shot imprints used to determine shot size ...Summer 01 267

Shotshells & components - Plastic, Modi-Pac shotshells ...NLR 11 14

Shotshells & components - Power piston identified to cut barrel ...Jul 83 21

Shotshells & components - Power Piston look-a-likes ...Summer 98 512

Shotshells & components - Quality assurance in manufacture ...Jul 85 70

Shotshells & components - Remington steel shot ...Dec 73 31

Shotshells & components - Rhodesian Jungle (duplex load, 00 Buck & #4 lead shot), Specialty shotgun ammunition from Firequest ...Spring 01 162

Shotshells & components - Rifled slug identification ...Apr 94 136

Shotshells & components - Rubber shot ...Oct 88 435

Shotshells & components - Sabot from shotshell identified ...Winter 97 26

Shotshells & components - Sabots for slugs made of copper (Remington and Federal) ...Summer 00 301

Shotshells & components - See also Cartridge case comparison

Shotshells & components - See also Distance determination

Shotshells & components - Shell fired with or without shot? ...Jun 78 24

Shotshells & components - Shell with unique marks ...Spring 98 360

Shotshells & components - Shot patterns with OO-buck ...Jul 77 132

Shotshells & components - Shot pellets, homemade,unusual ...Jul 94 242 (corrections ...Oct 94 308)

Shotshells & components - Shot pellets: an overview ...Jul 94 223 (corrections ...Oct 94 308)

Shotshells & components - Shot size (change by Win. of 1 Buckshot) ...Oct 93 297

Shotshells & components - Shot size determination in 12 gauge plastic wads ...Summer 01 267

Shotshells & components - Shot sizes by country ...Apr 93 114

Shotshells & components - Shot spread reducing and shot spread eliminating shotgun wads ...Fall 00 361

Shotshells & components - Shot, All About ...Jul 88 280

Shotshells & components - Shot, steel, hunting uses ...Jan 89 34
Shotshells & components - Shotshells, overview ...Jul 82 49
Shotshells & components - Slug design and dynamics ...Oct 88 408
Shotshells & components - Slug entrance wound sizes ...Apr 89 429
Shotshells & components - Slug entrance wound sizes ...Oct 87 433
Shotshells & components - Slug identification ...Oct 86 62
Shotshells & components - Slugs with copper sabots (Remington and Federal) ...Summer 00 301
Shotshells & components - Specialty (unusual) shotgun ammunition from Firequest ...Spring 01 162
Shotshells & components - Specialty Shotgun Ammunition from All Purpose Ammunition [manufacturer] (Avenger, Bolo, Chain Reaction, Comet Tracer, Flechette, Hammer, Mini Missile, Pit Bull, Shredder) ...Winter 02 53
Shotshells & components - Spreader loads ...Summer 97 300
Shotshells & components - Steel shot ...NLR 8 14
Shotshells & components - Toolmarks on plastic shotshells ...Oct 92 366
Shotshells & components - Trajectories of 00 Buckshot ...Apr 89 457
Shotshells & components - Triple Decker (nine 00 buck pellets separated by three plastic discs), Specialty shotgun ammunition from Firequest ...Spring 01 162
Shotshells & components - Twin shot shell - 12 ga ...Feb 73 12
Shotshells & components - Unusual 00 Buckshot load (Fiocchi, HV 12 Ga. 1 oz., 9 pellets) ...Fall 97 460
Shotshells & components - Wad components, plastic, from a sawed-off shotgun - striae individuality ...Spring 2003 161
Shotshells & components - Wad identified ...Mar 78 17
Shotshells & components - Wads ...Mar 78 27
Shotshells & components - Wads to reduce or eliminate shot spread ...Fall 00 361
Shotshells & components - Wads used to determine shot size ...Summer 01 267
Shrub trimmer toolmarks on paper matches ...Jul 77 131
Sid Woodcock, interview regarding Detonics history and products ...Fall 01 354
SIEC headstamp ...Jul 88 317
Sig Sauer - Model 226, parts changes ...Apr 96 97
Sig Sauer - Model P226, .357 Sig pistol, breechface marks & slide lubrication...Fall 98 629
Sig Sauer - Model P230 ...Jul 75 54
Sig Sauer - Warning concerning replacement grips ...Oct 89 656
Signal launcher converted to shotgun ...Jan 81 13
Silencer - Beverage bottle, two liter ...Jul 84 25
Silencer - Bullet identifications ...Jan 83 76
Silencer - Bullets marked by ...Fall 97 401
Silencer - Charter Arms pistol ...Oct 83 51
Silencer - Charter Arms rifle ...Oct 82 46
Silencer - Forensic testing ...Apr 91 668
Silencer - Glock with Accu-Match barrel and silencer ...Winter 98 123
Silencer - Homemade ...NLR 9 33
Silencer - Homemade ...Oct 82 50
Silencer - Homemade on Beretta ...Mar 75 40
Silencer - Homemade vs. Commercial, construction and relative efficiency ...Spring 01 103
Silencer - Homemade, noise reduction measurements ...Summer 98 499
Silencer - Markings left on bullets ...Oct 94 292
Silencer - Marks, case study ...Oct 96 247
Silencer - Mauser rifle Model 98 ...Jul 84 129
Silencer - Mounted on a Beretta ...Dec 75 29
Silencer - Multiple entrance wounds from one bullet due to use of a silencer, Firearms Report Review Paper - 1998-2001 ...Fall 2002 409
Silencer - Muzzle attachments for firearms ...Winter 99 22
Silencer - On Charter Arms AR7 ...Oct 94 299
Silencer - Plastic ...Apr 81 22
Silencer - Problems with silencer equipped pistol ...Jul 87 296
Silencer - Review and State of the Art ...Apr 91 668
Silencer - Revolver, Ruger Speed-Six ...Fall 99 473
Silencer - Ruger - Model 10/22 with silencer (sound suppressor) ...Fall 01 332
Silencer - Russian "Quiet Thunderstorm" ...Summer 97 375
Silencer - Shearing marks ...Fall 99 489
Silencer - Shotguns (disguised) ...Apr 95 154
Silencer - Testing ...Apr 89 433
Silencer - Testing ...Oct 87 438
Silencer ...Aug 72 41

Silencer ...Dec 72 20
Silencer ...Feb 73 29
Silencer ...Oct 72 26
Silencer ...Oct 73 11
Silicon for replicas of bullets and casings ...Jan 96 41
Silicon rubber extrusion gun for casting ...Spring 97 213
Silvertip bullets - See **Winchester**
Simulants for skin for distance determinations ...Spring 00 136
Simunition CQT ammunition is not non-lethal ...Spring 98 321
Sintox - Heavy metal-free primers for handloaders ...Fall 01 326
Sintox ammunition - Collection of GSR and chemographic testing of lead-free Sintox ammo ...Spring 2003 152
Sites Spectre 9mm Semiautomatic Pistol ...Oct 91 1000
Skin Perforation and Skin Simulants ...Summer 02 268
Skin simulants and skin perforation ...Summer 02 268
Skin simulants for distance determinations ...Spring 00 136
SKS - Automatic conversion ...Summer 97 322
SKS - Carbines ...Oct 89 629
SKS - Class characteristics on fired cases ...Spring 02 144
SKS - Modified to select fire (semi and full automatic) ...Winter 98 120
SKS - See also Norinco
SKS style rifles - Class characteristics compared to AK series rifles ...Apr 96 77
Skull with hatchet toolmarks ...Spring 98 349
Slide lubrication & breechface marks with the Sig Sauer - P226, .357 Sig pistol ...Fall 98 629
Slingshot physics ...Apr 88 115
Slingshot physics ...Apr 89 440
Slingshots - Skin Perforation and Skin Simulants ...Summer 02 268
Slippage seen on bullets ...Jan 81 53
Slot machine tampering ...Apr 89 228
Slot machine tampering ...Jul 79 38
SM-11 ...NLR 3 27
Small Particle Reagent for Latent Fingerprint processing ...Jan 87 15
Smith & Wesson - .40 S&W ...Jul 90 288
Smith & Wesson - .45ACP pistol magazine **Safety warning** ...Apr 90 227
Smith & Wesson - 10mm ...Jul 90 288
Smith & Wesson - 3rd generation grip breakage **Safety warning**...Oct 90 452
Smith & Wesson - 9mm autoloading pistols rifled 5R ...Mar 78 6
Smith & Wesson - Ammunition codes ...Oct 82 10
Smith & Wesson - Ammunition company formed ...NLR 9 21
Smith & Wesson - Ammunition warning (+P+ and ++P) ...Jan 79 23
Smith & Wesson - Cessation of ammunition production ...Oct 81 5
Smith & Wesson - Chinese copy ...Jul 83 20
Smith & Wesson - Class characteristics ...Oct 72 23
Smith & Wesson - Colt barrel ...Apr 80 23
Smith & Wesson - Comparisons of Nyclad ammunition ...Oct 79 116
Smith & Wesson - Consecutively fired bullets and cases ...Jul 83 113
Smith & Wesson - Double action pistols, trigger staging warning ...Jan 92 80
Smith & Wesson - Elimination of "hidden" serial numbers ...Apr 80 14
Smith & Wesson - Firing pin manufacturing marks ...Jul 84 51
Smith & Wesson - L frame warning notice ...Oct 87 392
Smith & Wesson - Manufacturing facility, general info & serial numbers ...Fall 97 487
Smith & Wesson - Model 1006 pistols - **Safety warning** ...Winter 02 78
Smith & Wesson - Model 1026 pistols - **Safety warning/Recall** ...Winter 02 77
Smith & Wesson - Model 1066 pistols - **Safety warning** ...Winter 02 78
Smith & Wesson - Model 1076 pistols - **Safety warning/Recall** ...Winter 02 77
Smith & Wesson - Model 147A, Model 47, Model A471 ...Jul 80 80
Smith & Wesson - Model 19 357 Magnum Mag-na-ported 4"Barrel ...Oct 91 903
Smith & Wesson - Model 39 ramp modification ...Oct 83 6
Smith & Wesson - Model 39 unusual cartridge marking ...Oct 83 13
Smith & Wesson - Model 3904 pistols - **Safety warning** ...Winter 02 78
Smith & Wesson - Model 3906 pistols - **Safety warning** ...Winter 02 78
Smith & Wesson - Model 3913 pistols - **Safety warning** ...Winter 02 78

Smith & Wesson - Model 3913LS pistols - **Safety warning** ...Winter 02 78
Smith & Wesson - Model 4506 pistols - **Safety warning** ...Winter 02 78
Smith & Wesson - Model 4506, .45 ACP caliber, pistol magazines - **Safety warning** ...Winter 02 79
Smith & Wesson - Model 4516 pistols - **Safety warning** ...Winter 02 78
Smith & Wesson - Model 4516, .45 ACP caliber, pistol magazines - **Safety warning** ...Winter 02 79
Smith & Wesson - Model 4516-1 pistols - **Safety warning** ...Winter 02 78
Smith & Wesson - Model 4526 pistols - **Safety warning/Recall** ...Winter 02 77
Smith & Wesson - Model 4536 pistols - **Safety warning/Recall** ...Winter 02 77
Smith & Wesson - Model 4576 pistols - **Safety warning/Recall** ...Winter 02 77
Smith & Wesson - Model 547 ...Oct 81 54
Smith & Wesson - Model 547 limit pin ...Apr 83 9
Smith & Wesson - Model 59 manual safety fracture ...Oct 88 454
Smith & Wesson - Model 59 rifled 5R ...Jul 77 167
Smith & Wesson - Model 5903 pistols - **Safety warning** ...Winter 02 78
Smith & Wesson - Model 5904 pistols - **Safety warning** ...Winter 02 78
Smith & Wesson - Model 5906 ejectors ...Fall 2002 406
Smith & Wesson - Model 5906 pistols - **Safety warning** ...Winter 02 78
Smith & Wesson - Model 5924 pistols - **Safety warning/Recall** ...Winter 02 77
Smith & Wesson - Model 5926 pistols - **Safety warning/Recall** ...Winter 02 77
Smith & Wesson - Model 5946 pistols - **Safety warning** ...Winter 02 78
Smith & Wesson - Model 61 pistol ...NLR 9 38
Smith & Wesson - Model 645, .45 ACP caliber, pistol magazines - **Safety warning** ...Winter 02 79
Smith & Wesson - Model 659 accidental discharge ...Jan 94 18
Smith & Wesson - Model 6904 pistols - **Safety warning** ...Winter 02 78
Smith & Wesson - Model 6924 pistols - **Safety warning/Recall** ...Winter 02 77
Smith & Wesson - Model 6926 pistols - **Safety warning/Recall** ...Winter 02 77
Smith & Wesson - Model 6946 pistols - **Safety warning** ...Winter 02 78
Smith & Wesson - Model 745, .45 ACP caliber, pistol magazines - **Safety warning** ...Winter 02 79
Smith & Wesson - Model 916-T shotgun - **Safety warning/Recall** ...Winter 02 80
Smith & Wesson - Model 916T shotguns **Recall** ...Jan 79 22
Smith & Wesson - Model K-200 with Austrian Police markings ...Jul 77 124
Smith & Wesson - Model Sigma pistol, Enhanced version ...Fall 99 498
Smith & Wesson - Model Sigma SW40V breechface marks ...Spring 99 131
Smith & Wesson - Model SW40F (Sigma) - Class characteristics compared to Glock ...Apr 95 133
Smith & Wesson - Model SW40F ...Oct 94 297
Smith & Wesson - Model SW9F (Sigma) ...Apr 95 133
Smith & Wesson - Model SW9F, hidden serial number ...Spring 97 186
Smith & Wesson - Model Victory with German proofmarks ...Oct 74 14
Smith & Wesson - Numbers on 3rd generation pistols ...Oct 90 451
Smith & Wesson - Nyclad ammunition ...Apr 81 20
Smith & Wesson - Nyclad bullets are identifiable ...Jul 79 66
Smith & Wesson - Nyclad penetration ...Apr 85 83
Smith & Wesson - Nyclad rights sold ...Apr 82 4
Smith & Wesson - Pistols - Passive safety lock ...Oct 94 283
Smith & Wesson - Revolver barrels consecutively manufactured ...Spring 99 117
Smith & Wesson - Revolver Hammer Nose Rivet Malfunction ...Jul 91 854
Smith & Wesson - Revolver rifled 8 right ...Apr 85 78
Smith & Wesson - Semiautomatic pistols warning notice ...Jul 86 68
Smith & Wesson - Serial numbers ...Aug 72 16
Smith & Wesson - Trigger stop service recommended ...Jan 79 22
SMLE - See Enfield
Snapper - Clamp to hold semiautomatics open ...Oct 90 456
Sniper SubSonic - See Aquila ...Summer 01 276
Societe Francaise Munitions - Armor piercing ammunition ...Apr 87 151
Sodium Rhodizonate problems ...Jan 87 15
Sodium Rhodizonate tests - See also Gunshot Residues
Solid Training Round (STR), solid brass training cartridges ...Winter 00 45
Sound measurements - See **Acoustics**
Sound meters in firearms identification ...Summer 98 510
Sound of bullets ...Summer 02 255
Sound of gunshots - See **Acoustics**

Sound suppresser - See **Silencer**
Sources of lead in gunshot residues ...Summer 01 212
South African ammunition - 5.56 x 45mm (.223 Remington) ...Spring 00 180
Sovereign - Tiger Cat .22 ammunition ...Apr 85 67
Soviet - See **Russia**
SP-3, Russian silenced pistol ammunition ...Summer 97 375
Spa Vacuum (manual) for water tank bullet recovery and tank cleaning ...Fall 01 353
Spanish firearms - Serial numbers ...Aug 72 46
Spanish pistol ...Apr 85 73
Spanner wrench hole marks ...NLR 8 34
Specialty Shotgun Ammunition from All Purpose Ammunition [manufacturer] (Avenger, Bolo, Chain Reaction, Comet Tracer, Flechette, Hammer, Mini Missile, Pit Bull, Shredder) ...Winter 02 53
Speer - .224 Bullet cannelure ...Apr 81 16
Speer - .30 cal RNSP Plinker bullet ...Jul 83 19
Speer - .357 SIG cartridge improvements ...Fall 01 338
Speer - Lawman Gold Dot - Effect of angle of hollow point bullets fired into gelatin ...Jul 94 193
Speer - Lawman, 9mm, 147 grain, Comet tailing ...Fall 01 336
Speer - See also CCI
Spencer Lens Co. - History of the comparison microscope ...Spring 02 186
Spherical projectiles, forensic aspects ...Winter 98 102
Sports Support Systems, Inc. - Rifle holder ...Jan 90 54
Spreader loads for shotguns ...Summer 97 300
Springfield - .30-06 vs. 303 British ...Oct 93 318
Springfield - Model 187 **Recall** ...Jan 82 6
Springfield - Model 187TS **Recall** ...Jan 82 6
Springfield - Model 1903 modified with a thumb-button trigger ...Dec 76 41
Springfield - Rifle serial numbers/dates ...Jul 93 157
Springfield Armory - Model M1911A1, 9mm ...Jan 89 82
Springfield Armory museum collection ...Fall 97 487
Spud gun ...Apr 94 128
Spud gun ...Jul 94 169
Square gunshot residue patterns ...Winter 97 31
Squib load used in a shooting ...Oct 94 254 (corrections ...Jan 95 83)
Squibman - .22 cartridge ...NLR 13 29
Squibman - Ammunition ...Jan 79 36
Squires Bingham - Ammunition ...Jan 79 36
Squires Bingham - Brass finished rimfire bullets ...Sep 78 22
Squires Bingham - Selling Colt revolvers ...Jul 88 269
Squires Bingham - Stirling .22 Golden Bullet ...Jul 77 226
SS109 - See **Bullets - 5.56 x 45mm**
SSS - See **Aguila**
SSS (Sniper SubSonic) - See Aguila ...Summer 01 276
Stability (of bullets) - See **Ballistics, external**
Stabilizer - Cellini ...Jan 90 34
Stainless steel, Griffin's reagent for serial number restoration...Fall 99 497
Stallard Arms - Model Haskell .45 ACP pistol ...Jan 92 75
Stallard Arms - Model Hi-Point, JF, 9mm ...Fall 97 494
Stallard Arms - Model JS 9mm, unmarked ...Fall 97 472
Stallard Arms - Model JS-9mm Maverick ...Jul 90 299
Stallard Arms - Model Maverick, JS, 9mm, fish scales breechface marks ...Fall 97 494
Stallard Arms - Primer indentations on unfired cartridges ...Jan 95 61
Stallard Arms - See also Strassell Machine
Standard ammunition for gunshot residue testing ...Fall 00 332
Standard Bullets and Casings of NIST ...Fall 00 368
Standards ...NLR 2 3
Staple gun modified to fire cartridge ...Jan 94 34
Stapler - Toolmark individuality ...Apr 89 155
Stapler - Toolmark individuality ...Oct 74 23
Stapler - Toolmarks ...Oct 81 76
Staples - Comparison ...Oct 74 16
Star - Arcs on breechfaces ...Jul 95 213

Star - Fired cartridge cases with second firing pin impressions and "cat's ears" ...Winter 00 42
Star - Model B, 9mm Luger, discharges when dropped if loaded with .38 Super ...Summer 98 514
Star - Model M ...NLR 19 38
Star - Serial numbers ...Oct 73 6
Starline - Brass ...Oct 84 60
Starter pistols or revolvers, modified - See also Homemade firearms
Starter revolver modification ...Jul 87 303
Static stability (of bullets) - See **Ballistics, external**
Statistical analysis - Application in the field ...Oct 96 222
Statistical analysis - Handguns recovered from 1950-1980 ...Jul 91 820
Statistical analysis - See also Mathematical models
Statistical analysis - Shotshells ...Jul 85 70
Statistical analysis - Striae ...Jul 88 252
Statistical analysis - Striae ...Jul 88 260
Statistical analysis ...Apr 95 140
Steel (shot pellets) - See **Shotshells & components**
Steel City Arms - Double Deuce pistol ...Oct 82 11
Steel, Stainless, Griffin's reagent for serial number restoration...Fall 99 497
Step drill for bullet recovery from vehicles ...Spring 98 345
Sterilizing bullets ...Apr 90 129
Sterling - Rifling ...Oct 81 52
Sterling ...Dec 72 30
Sterling Arms - Rifling specs ...Apr 81 16
Stevens - Model 311 - Series H - Crosshatched breechface marks ...Jul 95 200
Stevens - Model 80 **Recall** ...Jan 82 6
Stevens - Model 87B with no rifling in barrel ...Jun 78 27
Stevens - Model 88 **Recall** ...Jan 82 6
Stevens - Model 887 **Recall** ...Jan 82 6
Stevens - Sears compatible model designations ...NLR 14 19
Stevens - Serial numbers ...NLR 15 18
Stevens - Serial numbers ...Oct 72 33
Steyr - See also Poland
Steyr - Semiautomatic .223 rifle ...Jul 86 75
Stinger - Model MAC SSS-1 .22 cal ...Aug 72 42
Stinger Pen Pistol ...Oct 95 294
Stippling - See **Distance determinations** or **Gunshot residues**
Stippling/Tattooing vs. Powder Burning ...Spring 00 178
Stirling - Ammunition ...Jan 79 36
Stirling - Model 14 rifles, general and cartridge case comparison ...Spring 2003 245
Stirling - See also Squires Bingham
Stitching identified (Embroidered writing) ...Jan 90 41
Stoeger - Luger Model **Safety warning** ...Jan 90 47
Stoeger Industries - See also Llama
Storage of evidence ...Apr 85 106
Store brand firearms - Crossover list ...Oct 89 611
Strassel Machining ...Fall 97 494
Strassell Machine - Interview with owner ...Oct 93 308
Strassell Machine - Primer indentations on unfired cartridges ...Jan 95 61
Strayer/Voigt Inc. - Infinity Firearms - Interchangeable parts ...Spring 02 205
Striae reproducibility on sectional cuts of one Thompson Contender barrel ...Winter 98 62
Striae, consecutive - See **Mathematical models** or **Criteria for identification**
Strike flash from bullets ...Jul 88 294
Striker block - See **Safeties**
Striker, rebounding - See **Safeties**
Stripping seen on bullets ...Jan 81 53
Strumgewehr - Model MP-44 ...Jul 95 220
Stud guns - See also Nail driver
Stun gun - Camera modified into stun gun ...Winter 97 16
Stungun - Taser ...Jul 81 18
Sturm, Ruger - See **Ruger**
Sub-caliber devices - See **Conversion Kits**

Subclass characteristics - See **Manufacturing marks** or **Consecutive manufacture**
Subjectivity ...Jan 87 24
Submachine guns - See **Automatic**
Subsonic bullets, Sound of ...Summer 02 255
Substitutes for Black Powder - Physical and chemical properties and performance ...Fall 01 313
Sugiura - Pistol ...Apr 85 38
Suicide bomber's weapon (FN Hi-Power, 9mm Luger caliber) ...Fall 01 335
Suicide Specials - See **Saturday Night Specials**
Sulfur casting ...Apr 80 15
Super Glue - Effects of fuming on firearms identification ...Apr 85 119
Super Glue - Effects of fuming on firearms identification ...Oct 90 408
Super Glue - Glass stabilization ...Oct 90 440
Super Vel - Ammunition update ...Apr 85 84
Super Vel - Plant visit ...Jul 83 15
Supersonic bullets, Sound of ...Summer 02 255
Suppresser, sound - See **Silencer**
Sureguard matte special photographic spray ...Spring 98 316
Surface profiling ...Apr 84 60
Surface topology of bullet striations ...Spring 98 294
Surplus ammunition **Safety warning** ...Jan 93 12
Survival firearm ...NLR 8 11
SWD - Model Cobray 11 pistols atypically rifled ...Jul 90 328
SWD - Model M-10 and Model M-11 ...Jul 84 17
SWD - Model M11 - Automatic conversion ...Jul 95 231
SWD - Model M11 - Flowback (bulge) of primers ...Jan 95 1
SWD - Model M-11 ...Oct 88 460
SWD - Model M-11 automatic conversion ...Oct 90 414
SWD - Model M-11 cartridge case identification ...Jul 90 330
SWD - Model M11, Silenced with homemade and commercial suppressors ...Spring 01 103
SWD - Model Street Sweeper, .410 Ga./45 Long Colt caliber ...Winter 97 19
SWD - Model Terminator 12 ga. shotgun ...Oct 92 363
SWD - See also Cobray
SWD - Semiautomatic pistol ...Apr 85 92
Swedish Training Cartridge - Plastic bullet with a steel BB ...Spring 02 206
Swiss military cartridges - X on bullet base ...Mar 77 28
Tablet, 357 Magnum ...Apr 83 11
Taiyo Juki - Shotgun, 20ga., leaves unique marks on shotshells ...Spring 98 360
Talon Industries - Model T100 .380 Auto pistol ...Winter 01 56
Tanfoglio - See **Armi Tanfoglio**
Tape, electrical ...Jul 86 53
Tariq - See **Iraq**
Taser – See also Less Lethal
Taser ...Dec 75 23
Taser ...Dec 76 32
Taser stungun ...Jul 81 18
Tattooing - See **Distance determinations** or **Gunshot residues**
Taurus - Arcs on breechfaces ...Jul 95 213
Taurus - Concave firing pin aperture on Model PT92AFS ...Fall 01 334
Taurus - History ...Jul 82 9
Taurus - Model 58-S ...Oct 88 459
Taurus - Model 60 - Safety device malfunction ...Jun 78 30
Taurus - Model 80 revolvers, second serial number ...Apr 80 18
Taurus - Model PT92AFS with concave firing pin aperture ...Fall 01 334
Taurus - Model PT-945, GRC data ...Fall 97 495
Taurus - Revolver rifling change ...Apr 79 45
Taurus - Safety device malfunction - Several revolver Models ...Jun 78 33
TCW - See **Tula Cartridge Works** or **Russia**
Teamwork ...Apr 83 62
Teamwork ...Jan 83 30
Tear gas gun chambers 20 gauge shotshells ...NLR 2 26
TEC - See **Intratec**

Teflon coated bullet - Grand Slam cartridge ...Apr 91 679
Telephone cable toolmarks ...Apr 79 39
Telescopic sights - Fields of views, typical ...Apr 85 89
Teleshot - .22 ...Feb 73 12
Television with bullet holes - how to open it ...Oct 90 434
Temper of mainspring lost as a result of heat during a fire ...Winter 00 44
Terminal ballistics - See **Ballistics, terminal**
Terminal Performance of the 5.7x28mm, 31 grain, SS-190, FMJ Bullet Fired by the FN P-90 in 10% Ordnance Gelatin ...Summer 02 302
Terminology, Materials ...Fall 98 663
Test fired cartridge cases supplied by manufacturer (Glock) are incorrect ...Spring 2003 195
Test, firearms expert ...Jul 86 96
Testability - Daubert criteria and Firearm/Toolmark examination ...Winter 03 38
Testimony - See **Court testimony**
Testing for the presence of lead "an easy way" ...Winter 01 40
Textual descriptions as documentation of firearm/tool mark comparisons ...Spring 2003 149
Thaelmann, Ernst - See **Ernst Thaelmann**
Theory of identification - See also Criteria for Identification
Theory of identification - See also Criteria for identification
Theory of identification ...Jul 92 336
Theory of identification as it relates to toolmarks ...Winter 98 86
Theory of identification, bullet comparison and bullet striae ...Spring 02 158
Thermal breaking v. mechanical impact breakage of glass ...Summer 99 370
Thermal discharge of cartridges - Rifle cartridges discharged within a block of wood ...Spring 02 175
Thermal effects on ammunition ...Jan 82 68
Thermal serial number restoration for plastics ...Fall 00 367
Thomas - .45 pistol ...Jan 88 79
Thomas - .45 pistol ...Jul 87 318
Thompson Center - Lock mechanisms ...Apr 83 15
Thompson Center - Model Contender .45 Colt through .410 choke ...Mar 75 25
Thompson Center - Model Contender barrel specifications ...Jul 83 23
Thoughts - Altered parts: effects on comparisons ...Jul 87 316
Thoughts - Bias ...Oct 93 259
Thoughts - Bullet comparisons in No-gun cases ...Jul 87 306
Thoughts - Loose firearm parts still of value for comparison ...Jul 87 324
Thoughts - Objectivity vs. Subjectivity ...Jan 87 24
Thoughts - What is a firearms examiner? ...NLR 8 36
Three-D (3-D) Ammunition ...Apr 95 xvi
Time - effect on gunshot residues ...Jul 89 500
Time since a firearm was discharged ...Jul 94 216
Time since discharge - Scientific methods, advances in - Firearms Report - Speaking Paper 1998 - 2001 ...Fall 2002 362
Time since discharge of rifles, Firearms Report Review Paper - 1998-2001 ...Fall 2002 409
Time since discharge of shotguns, Firearms Report Review Paper - 1998-2001 ...Fall 2002 409 (two references)
Time since discharge of spent cartridges, Firearms Report Review Paper - 1998-2001 ...Fall 2002 409
Tips - Land and groove counting tip ...NLR 13 33
Tires - Bullet hole caliber determination ...Jan 88 42
Tires - Bullet holes in ...Oct 89 629
Tires - Comparison of automobile and truck tires ...Apr 89 231
Tires - Comparison of automobile and truck tires ...Jul 79 42
Tires - Knife cut marks ...Jul 84 102
Tires - Overview and toolmarks from cuts ...Apr 92 146
Tires - Prints in snow, Snowprint-Wax ...Apr 83 77
Tires - Toolmarks ...NLR 20 29
Tissue removal from bullets ...Apr 94 102
Titan - .25 ACP pistol ...Apr 86 3
Titan - .25 ACP pistol unusual rifling ...Jan 82 63
Titan - .25 Auto - Extractor flaw ...Jul 95 230
Titan - Class characteristics ...Apr 89 387
Titan - Model Tiger .38 Spl. will chamber some .357 Mag ammo ...Oct 95 316
Titan - See also FIE
Titanic ...NLR 20 46
TMW - Autauga 32 ...Spring 97 185

TochMash - See **Russia** (silenced pistol ammunition)
Tokagyp - Model 58 ...NLR 3 26
Tokarev - Chinese copy - Navy Arms TU90 ...Apr 94 121
Tokarev - Chinese copy ...Jan 94 37
Tokarev - History, models, and disassembly ...Winter 00 52
Tokarev - Type 54 pistol ...Apr 90 160
Tool Mark Index ...Oct 96 266
Tool Mark Index Update (addendum) ...Fall 01 366
Toolmark identification - Overview ...Summer 01 233
Toolmark on CCI "Clean-Fire" primers ...Spring 2003 250
Toolmarks - Angle determination device ...Winter 03 19
Toolmarks - Angle of incidence of tool ...Spring 98 271
Toolmarks - Bailing machines on bailing wire ...Jul 75 99
Toolmarks - Battery terminals ...Apr 88 151
Toolmarks - Bolt cutter mark identified ...Jan 94 21
Toolmarks - Bolt cutter standards ...Mar 77 12
Toolmarks - Bolt cutters ...Fall 97 484
Toolmarks - Bolt cutters from China with matching sub-class striae ...Oct 93 298
Toolmarks - Bolt cutters, consecutive manufacture & extended cutting ...Jul 92 260
Toolmarks - Bottle cap and cap ring ...Mar 75 19
Toolmarks - Bullet matched to impression on plasterboard ...Jan 89 75
Toolmarks - Bullet mold marks ...Mar 75 73
Toolmarks - Bullet molds and cast bullets ...Jul 85 88
Toolmarks - Bullet nose ...Apr 88 157
Toolmarks - Bumper of truck ...Apr 83 98
Toolmarks - Buttons, metal ...NLR 17 15
Toolmarks - Cable, telephone ...Apr 89 221
Toolmarks - Camera identified ...Apr 89 227
Toolmarks - Camera identified ...Jul 79 35
Toolmarks - Can opener ...Oct 81 78
Toolmarks - Cannabis plant stalk ...Fall 2002 403
Toolmarks - Car bumper matched to fender ...Jun 78 57
Toolmarks - Car door molding and revolver hammer ...Jul 76 83
Toolmarks - Cartilage, from stab wounds ...Oct 91 958
Toolmarks - Cartridge case comparison - Metal chip in chamber leaves identifiable marks ...Spring 02 172
Toolmarks - Casts ...NLR 5 19
Toolmarks - Chisel taper/bevel edge yields marks ...Jul 93 197
Toolmarks - Chisels - Consecutively manufactured ...Fall 2002 379
Toolmarks - Cigarette lighter, automotive ...Dec 76 30
Toolmarks - Class characteristics ...Jun 78 59
Toolmarks - Class characteristics, examples from different tools ...July 85 73
Toolmarks - Comparison SEM ...Apr 83 47
Toolmarks - Comparison SEM ...Jul 83 141
Toolmarks - Comparison using electronic imaging and recording ...Oct 91 990
Toolmarks - Computer numerical control (CNC) production tooling, chars. on Remington 870 breech bolts ...Winter 03 49
Toolmarks - Consecutively manufactured crimping dies ...Sep 78 19
Toolmarks - Crimping dies, consecutively manufactured ...Apr 89 219
Toolmarks - cuts in tires ...Apr 92 146
Toolmarks - Dent puller ...Sep 78 38
Toolmarks - Die-cut slugs ...Jul 79 49
Toolmarks - Doorknob measuring tool (goniometer) ...Oct 83 14
Toolmarks - Engine head gasket ...Jul 84 18
Toolmarks - Extrusion marks ...NLR 5 22
Toolmarks - Extrusion marks on monofilament nylon fishing line ...Jul 76 69
Toolmarks - Film, instant print ...Oct 81 112
Toolmarks - Firearm matched to forearm ...Mar 77 20
Toolmarks - Foreshortening of striae ...Spring 98 271
Toolmarks - Fur coat ...Jul 75 66
Toolmarks - Hacksaw blade ...NLR 7 32
Toolmarks - Hatchet marks in human skull bone ...Spring 98 349
Toolmarks - High velocity ...Jul 77 134

Toolmarks - Hinge pin and safe ...Jul 81 72
Toolmarks - Individual characteristics criteria (overview) ...Spring 98 276
Toolmarks - Introduction to identification ...Oct 93 281
Toolmarks - Key making machine identified ...Oct 83 22
Toolmarks - Knife marks bone, identification made ...Oct 95 293
Toolmarks - Knife to cut wire ...Dec 76 66
Toolmarks - Knife wound in bone ...Oct 86 72
Toolmarks - Lathe shavings ...Apr 89 217
Toolmarks - Lathe shavings ...Mar 78 23
Toolmarks - Loading plunger mark on bullet ...Jul 75 86
Toolmarks - Loading plunger of cap and ball revolver ...Jun 74 13
Toolmarks - Macroscopic comparison using transparency film ...Summer 99 367
Toolmarks - Magnesium smoke technique ...Jul 77 128
Toolmarks - May lead to false conclusions ...Summer 00 292
Toolmarks - Metal residue build-up ...Aug 74 7
Toolmarks - Mikrosil casts for comparison ...Jul 94 181
Toolmarks - Mold marks on bullets ...NLR 6 2-6
Toolmarks - Nails, cut, manufacturing and toolmark identification ...Summer 98 492
Toolmarks - Nails, square cap ...Summer 97 282
Toolmarks - Overview (comprehensive) ...Summer 01 233
Toolmarks - Overview ...Apr 84 72
Toolmarks - Passing the reliability test under federal and state evidentiary standards ...Spring 2003 209
Toolmarks - Pay telephone burglary tools ...NLR 9 1
Toolmarks - Pills marked by pill press ...Oct 90 442
Toolmarks - Pipe wrench ...Dec 76 12
Toolmarks - Planer matched to lumber ...Jun 78 57
Toolmarks - Plastic bag ...Jan 88 55
Toolmarks - Plastic bag holes (Seal-A-Meal) ...Apr 89 384
Toolmarks - Plastic bag holes (Seal-A-Meal) ...Jan 86 21
Toolmarks - Pliers, sequentially manufactured ...Jan 82 13
Toolmarks - Plunger of cap and ball revolver ...Mar 77 67
Toolmarks - Pruning shear marks on wood ...Feb 74 10
Toolmarks - Pry marks on a safe ...Apr 80 20
Toolmarks - Pull tabs from beverage cans ...Apr 83 56
Toolmarks - Pull tabs from beverage cans ...Jul 84 99
Toolmarks - Razor blades, Toolmarks produced when attaching backing steel ...Spring 99 154
Toolmarks - Razor on human whisker ...NLR 7 32
Toolmarks - Reloading die ...Apr 79 37
Toolmarks - Rivet impression in bullet nose ...Spring 02 168
Toolmarks - Rubber shaved from tire during accident ...Mar 78 33
Toolmarks - Screw and auto ignition lock ...Apr 83 97
Toolmarks - Screwdriver angle of incidence ...Spring 98 271
Toolmarks - Screwdriver manufacture ...Mar 76 29
Toolmarks - Screwdriver matched to mark on bullet base ...Jun 78 68
Toolmarks - Screwdrivers - Examination of consecutively manufactured (slotted) ...Winter 03 66
Toolmarks - See also Casting materials and techniques
Toolmarks - Sequentially manufactured pliers ...Jan 82 13
Toolmarks - Shotgun, sawed-off with a hacksaw, marks plastic wads ...Spring 2003 161
Toolmarks - Shrub trimmer on paper matches ...Jul 77 131
Toolmarks - Smokeless powder grains ...Mar 76 19
Toolmarks - Smokeless powder particles with toolmarks ...Spring 00 162
Toolmarks - stab wounds, cartilage comparison ...Oct 91 958
Toolmarks - Standard test impression device ...Mar 75 33
Toolmarks - Stapler ...Oct 81 76
Toolmarks - Stapler individuality ...Oct 74 23
Toolmarks - Staples ...Oct 74 16
Toolmarks - Striated mark comparisons, angle determination ...Winter 03 19
Toolmarks - Striation non-match ...Oct 92 364
Toolmarks - Suction cup marks on glass ...NLR 8 18
Toolmarks - Telephone cables ...Apr 79 39
Toolmarks - Test impression techniques ...NLR 10 26

Toolmarks - Test material ...Mar 75 25
Toolmarks - Tire stabbed with consecutively manufactured knives ...Jan 82 50
Toolmarks - Tire stabbed with consecutively manufactured knives ...Apr 89 306
Toolmarks - Tires ...NLR 20 29
Toolmarks - Trash bags ...Jan 80 23
Toolmarks - TRAX system for computer comparison of striated marks ...Jul 96 183
Toolmarks - Twist drill ...Dec 75 35
Toolmarks - Vacuum evaporation of metals to enhance surface ...Oct 86 76
Toolmarks - Wheel trim ring (hubcap) ...Apr 83 100
Toolmarks - Window screen wire ...NLR 16 14
Toolmarks - Wire ...Apr 85 122
Toolmarks - Wood ...Feb 74 10
Toolmarks - Wood ...NLR 20 43
Toolmarks - Worksheet ...Jun 78 59
Toolmarks - Zipper ...Jan 79 25
Tools - Identification as burglary tools ...NLR 9 42
Tools - Measuring ...Apr 84 31
Tools - See also Equipment
Tools for the firearm examiner ...NLR 20 12
Tours of firearms factories ...Fall 97 487
Trace copper detection ...Spring 97 204
Trace evidence - Examination for ...Oct 82 58
Trace evidence - On bullets ...NLR 13 16
Trace evidence - On bullets, use of SEM ...Oct 87 388
Trace evidence - polishing material found on bullets, cases ...Jul 92 244
Trace evidence - Retention during blood extraction from garments ...Jul 92 304
Trace evidence - Shotgun shell buffers, analysis and comparison ...Summer 00 277
Trace evidence on bullet leads to DNA "match" ...Winter 97 58
Trace Metal Detection Tests - Compared to Gunpowder residue tests ...Oct 79 122
Tracer ammunition, Hornady Vector ammunition for illuminated trajectories ...Jan 96 32
Tracing firearms - See **ATF**
Trademarks - Crown W ...Jun 78 29
Trademarks ...Jul 77 236
Training - Aids - Hints ...Jan 80 21
Training - Am. Institute of Applied Science, lessons 1 thru 3 ...Apr 82 16
Training - Am. Institute of Applied Science, lessons 4 thru 7 ...Jul 82 45
Training - Am. Institute of Applied Science, lessons 8 thru 10 ...Oct 82 51
Training - ATF - National Firearm Examiner Academy ...Fall 98 703
Training - Availability of materials ...Dec 75 54
Training - Calif. Dept. of Justice Training Syllabus, Module 1 ...Jan 84 30
Training - Calif. Dept. of Justice Training Syllabus, Module 3 ...Apr 84 29
Training - Calif. Dept. of Justice Training Syllabus, Module 5 ...Jul 84 146
Training - Calif. Dept. of Justice Training Syllabus, Module 7 ...Jan 91 543
Training - Calif. Dept. of Justice Training Syllabus, Module 7 ...Apr 91 698
Training - Courses offered ...Jul 75 19
Training - Cut-away training firearms ...Spring 99 133
Training - Expert's qualifications ...Jul 85 119
Training - Florida-Georgia Firearm Examiners Training Class: An Overview ...Spring 01 161
Training - Metric vs. decimal measurements ...Mar 75 42
Training - National Firearm Examiner Academy (ATF) ...Summer 99 397
Training - Overview ...Mar 75 14
Training - Sharing ideas ...Apr 85 91
Training - Visual aids of cartridges, bullets, etc. ...Oct 94 309
Training ...Apr 89 165
Training ...NLR 12 32
Training ammunition - See also Frangible bullets
Training ammunition, Design, composition, external, terminal, and wound ballistic properties ...Summer 99 344
Training Manual revision ...Apr 91 648
Trajectory - See also Ballistics, External
Trajectory analysis and reporting, proposals for ...Summer 98 482
Transfer bar - See **Safeties**

Transparency film for macroscopic comparisons ...Summer 99 367
Trap gun ...Apr 80 19
Trash bags - Comparative analysis ...Jan 80 23
TRAX for computer comparison of striated toolmarks ...Jul 96 183
Tree - See also Wood
Tree rings ...Jan 81 15
Tree stump examinations ...Oct 81 32
Trejo - Pistols ...NLR 4 18
Triangulation, Trajectory analysis and reporting, proposals for ...Summer 98 482
Tri-Corporation - Fox carbine ...Jul 77 119
Trig-Elliptical method of bullet impact angle determination ...Spring 01 122
Trigger block - See **Safeties**
Trigger mechanisms - Release ...NLR 3 5
Trigger mechanisms - Shock sensitivity ...Apr 89 382
Trigger mechanisms - Shock sensitivity ...Oct 85 4
Trigger pull - Accuracy testing on Dvorak Instruments' Trigger-Scan System ...Fall 00 364
Trigger pull - Cyanoacrylate processing, effects ...Oct 88 443
Trigger pull - Data ...Oct 83 9
Trigger pull - Methods ...Jul 86 77
Trigger pull - Preloaded vs. normal trigger pull weights ...Jan 95 62
Trigger pull - Scale ...Apr 94 119
Trigger pull - Static vs. Dynamic determination ...Jul 84 84
Trigger pull - Statistical analysis ...Jan 86 35
Trigger pull - Statistics ...Jan 85 79
Trigger pull - Trigger Scan System ...Spring 99 123
Trigger pull - TriggerScan system for trigger pull measurement ...Fall 99 449
Trigger pull - Worksheet ...Jul 95 vii
Trigger pull - Worksheet ...Oct 93 vii
Trigger Scan - Scientific methods, advances in - Firearms Report - Speaking Paper 1998 - 2001 ...Fall 2002 362
Trigger Scan System - Trigger pull analysis ...Spring 99 123
Trigger Scan, system for trigger pull measurement ...Fall 99 449
Trigger shoe - Unsafe ...Oct 81 92
Troups ...NLR 8 11
TsNII - See **Russia** (silenced pistol ammunition)
Tula Arms Factory ...Oct 81 77
Tula Arsenal (Russia) - Manufacturing markson 9x18 Makarov primers ...Jul 96 164
Tula Cartridge works - Russian 5.56mm ammunition ...Fall 99 490
Tungsten bullets, Design, composition, external, terminal, and wound ballistic properties ...Summer 99 344
Tungsten-polymer (shot pellets) - See **Shotshells & components**
Turnbolt mark ...NLR 8 33
Twin shot shell - 12 gauge ...Feb 73 12
Twist drill - Identification ...Dec 75 35
Two Barrel Failures in Two Days ...Summer 02 310
Two bullets with one entry wound ...Summer 98 521
Two-Nitroso-1Naphthol vs. Dithiooxamide for trace copper detection ...Spring 97 204
U. S. Military - Lead-free "Green Bullet" ...Fall 99 493
U. S. Repeating Arms - Manufacturing facility, general info & serial numbers ...Fall 97 487
Ubungsmunition (East German practice ammunition) ...Jan 95 22
Ultra Shock - Ammunition ...Apr 85 34
Ultrasonic cleaning, effect on bullets (IBIS correlation scores) ...Spring 02 165
Ulyanovsk Machinery Plant ammunition - 5.45x39mm, 70 gn., FMJ, steel case ...Spring 2003 242
UMAREX - revolver ...Oct 95 320
Under water firing, comments ...Winter 01 8
Underwater firing of a Beretta 950B at a glass target ...Fall 00 354
Underwater firing, Glock Model 17 ...Apr 88 126
Underwater gun (anti-shark gun) ...Apr 79 86
Unitron - comparison scope ...Jan 81 8
Universal Firearms Company - Sears stock numbers ...Jun 78 54
Unmarked firearm, Stallard JS 9mm ...Fall 97 472
Unusual barrel obstruction ...Fall 00 359
US Military ammunition - .38 Special improved ...Mar 75 21

US Military firearms - Model M3, grease gun ...Jan 89 74
US Repeating Arms Co. - See **Winchester**
USAC plastic cased ammunition ...Apr 88 169
USAF Rifle/SMG - .221 cal ...NLR 12 24
Use of firearms, influence on their characteristic marks ...Summer 99 318
USSR - Firearm and toolmark examinations ...Jul 79 51
Utilization of the IBIS in Israel ...Summer 01 269
Uzi - Automatic conversion ...Apr 90 186
Uzi - Carbine - accidental discharge ...Jul 89 503
Uzi - Full auto conversion ...Oct 95 287
Uzi - Misuse of sub-machinegun selector results in continued discharge ...Winter 00 28
Uzi - Model B, Automatic conversion ...Fall 2002 399
Uzi - Rifling ...Oct 81 53
Uzi - See also Israel Military Industries
Uzi - Semiautomatic carbine ...Jul 84 19
Vacuum evaporation of metals to enhance surface features ...Oct 86 76
Valentine day massacre ...Jan 80 44
Validation - Daubert criteria and Firearm/Toolmark examination ...Winter 03 38
Validation - Passing the reliability test under federal and state evidentiary standards ...Spring 2003 209
Validation study - Electrochemical rifling ...Winter 03 35
Validity study for forensic examination of cartridge cases ...Spring 2003 210
Valor - Pistol ...Jul 76 21
Valor ...NLR 1 10
Vega - See **Eddy Manufacturing Co.**
Vehicle windows, plastic, angle determination of bullet impacts ... Winter 97 73
Vektor - Model CP1, 9mm caliber, semiautomatic pistol - **Safety warning/Recall** ...Winter 02 81
Vektor - Semiautomatic pistols, rifling characteristics ...Fall 00 363
Velet - Exploder cartridge ...Apr 88 202
Velet - Exploding bullet ...Jan 79 39
Velet - Exploding bullet ...Mar 78 28
Velet - Exploding bullet ...Sep 78 47
Velex/Velet ...Apr 84 104
Velox primer ...Fall 99 478
Vertical ballistics ...Jan 90 27
Vice - Homemade for rifle or handgun ...Oct 79 16
Vickers hardness values of selected .40 S&W primers ...Spring 2003 204
Video Tape Library - AFTE ...Apr 91 647
Video Tape Library - AFTE ...Jan 90 83
Videomicroscopy by fiber optics ...Jul 90 280
Videomicroscopy for bullet and toolmark identification ...Oct 91 990
Videos available - Forensic Firearms Evidence ...Oct 91 1006
Videos available - Illegal Full Auto Conversions ...Oct 88 466
Videos available - Wound Ballistics Video ...Oct 88 468
Videotape erasing unit used to demagnetize firearms from Magnetic Resonance Imaging ...Winter 03 23
VIN plate alterations ...Apr 83 18
VIS 35 - See **Poland**
Visual aids - Cartridges, bullets, etc. ...Oct 94 309
Visual aids - Hints ...Jan 80 21
Voere - Sears stock numbers ...Jun 78 54
Volksgewehr - See **Germany**
Voltan - Model 99 - Alarm pistols modified to fire 9mm K. (.380 ACP) ...Fall 2002 401
Wads - See **Shotshells & components**
Wads, plastic, used to determine shot size ...Summer 01 267
Waffen-Franconia ...Jul 77 166
Wahib - Ammunition ...Jan 83 68
Walam - Model 48 ...NLR 3 26
Walking stick - .223 Remington caliber
Walther - Chinese Model PPK copy ...Sep 78 41
Walther - Cocking notch modified ...Apr 88 195
Walther - Model P-38 - Full automatic conversion - Fires without pulling trigger ...Jul 95 233
Walther - Model P-38 unusual marking ...Mar 77 56

Walther - Model P5 and Model P7 malfunctions ...Jul 90 339
Walther - Model PP .32 Auto, full automatic firing ...Jan 96 41
Walther - Model PP copied by Iraqis ...Jan 92 23
Walther - Model PP Super ...Jul 75 58
Walther - Model PPK copy by Walam ...NLR 3 26
Walther - Model PPK/S manufacturers - Ranger Manuf. Co. ...Apr 81 29
Walther - Model PPK/s model with unusual proofmark ...Winter 01 47
Wards - Model 14M488A semiautomatic rifle converted to automatic ...Jun 78 52
Wards - Serial numbers ...Aug 72 37
Wards - Serial numbers ...NLR 16 21
Wards - Western Field - Serial numbers ...Oct 72 16
Washington, D. C. Firearms Laboratory ...NLR 2 4
Water recovery tanks - See **Bullet Recovery**
Wear on firearms as a means of identification ...Oct 80 79
Weatherby - Rifling specifications ...NLR 20 10
Weathering - Effect on gunshot residues ...Jul 89 500
Weight variability of fired and unfired cast bullets ...Jul 81 31
Weights of bullet cores ...Winter 98 125
Weights of bullet cores and jackets ...Spring 02 161
Weld bead marks on paint flake - physical match ...Spring 01 143
Welded number restoration ...Fall 98 649
West Point Museum ...Fall 97 487
Westpoint - Model 487T **Recall** ...Jan 82 6
White Laboratory ...Jul 87 284
Williamson - Single shot pistol ...NLR 13 24
Wilson Arms Co. - Manufacturing facility, general info & serial numbers ...Fall 97 487
Wilson Gun Shop - Aftermarket barrels for Glock pistols ...Fall 98 640
Winchester - .22 Long Rifle caliber, subsonic, Lot number EK72 ammunition - **Safety warning/Recall** ...Winter 02 83
Winchester - .22 Mag. cores similar to coated lead bullets ...Apr 83 60
Winchester - .32 S&W and .32 S&W L cartridges ...Apr 85 85
Winchester - .38 or .357 bullet? ...Jan 87 17
Winchester - Ammunition - Hollow point .25s ...Mar 75 64
Winchester - Ammunition coding information (Canadian made) ...Winter 99 62
Winchester - Ammunition **Safety warning** - .22 LR ...Jul 92 253
Winchester - Ammunition sold by Sears and Federal ...Aug 74 14
Winchester - Black Talon - Effect of angle of hollow point bullets fired into gelatin ...Jul 94 193
Winchester - Black Talon bullet comparison problems ...Spring 97 197
Winchester - Cartridges made for Remington ...Jul 89 520
Winchester - Double headstamp ...Oct 89 583
Winchester - Expanding point .25 ACP ...Oct 81 109
Winchester - Hollow point ammunition ...Apr 79 85
Winchester - Lead-free cartridges ...Apr 95 142
Winchester - Manufacturing marks on cases ...Jan 83 108
Winchester - Manufacturing marks on primers ...Jul 75 103
Winchester - Model 100 - **Safety warning** ...Oct 90 452
Winchester - Model 1001 shotguns - **Safety warning/Recall** ...Winter 02 82
Winchester - Model 1917 Enfield, barrel failure - **Safety warning** ...Summer 02 310
Winchester - Model 490 .22 rifles - **Safety warning** ...Mar 76 28
Winchester - Model 94 with 4R rifling ...Mar 77 18
Winchester - New ammunition ...Apr 79 88
Winchester - Ranger Law Enforcement Ammunition (frangible bullets) ...Spring 98 340
Winchester - Sears stock numbers ...Jun 78 54
Winchester - Serial number ranges ...NLR 14 18
Winchester - Serial numbers on antiques ...NLR 15 18
Winchester - Shot size change (1 Buckshot) ...Oct 93 297
Winchester - Silvertip ...Apr 85 26
Winchester - Silvertip ...Oct 82 40
Winchester - Silvertip jacket change ...Jul 84 144
Winchester - Silvertip penetration ...Apr 85 83
Winchester - Technical Advisor ...Apr 83 7
Winchester - USA brand, 9mm Luger, manufacturing marks on primers ...Summer 02 315

Winclean - Heavy metal-free primers for handloaders ...Fall 01 326
Wind force (on bullets) - See **Ballistics, external**
Wire comparison ...Apr 85 122
Wire insulation - physical match ...Jun 78 64
Wire Nails - See **Nails**
Wire, Copper, insulated - Individual characteristics ...Apr 89 307
Wire, Copper, insulated - Individual characteristics ...Jan 82 53
Wire, screen - See **Screen wire**
Wischo ...NLR 3 27
Wolf ammunition - 5.45x39mm, 60 gn., HP, steel case ...Spring 2003 242
Wolf brand - 12 gauge, 2¾ in., 00 buckshot, 9 pellet, clear plastic hull, white card top wad, fiber filler wad, plastic over-powder wad, plated steel head ...Spring 2003 242
Wood - Cannabis plant stalk with toolmarks ...Fall 2002 403
Wood - Firearm brand identified from wood in stock ...Apr 80 37
Wood - Growth ring comparison ...Mar 76 88
Wood - Physical match of broken wood pool cue stick ...Jul 94 185
Wood - Plywood cast identification ...Spring 97 181
Wood - Pruning shears ...Feb 74 10
Wood - Saw cuts and log ends ...NLR 7 30
Wood - Sawed off shotgun stock ...NLR 7 28
Wood - See also Tree Stump examinations
Wood - Toolmarks ...Feb 74 10
Wood - Toolmarks ...NLR 20 43
Wood - Tree rings ...Jan 81 15
Wooden bullets ...NLR 9 22
Woodin Laboratory ...Jan 82 4
Worksheets - Bullet ...NLR 2 15
Worksheets - Firearm ...NLR 2 13
Worksheets - Firearm ...NLR 2 14
Worksheets - Firearms ...NLR 10 8
Worksheets - Gunshot residue tests ... Winter 97 61
Worksheets - Oklahoma State Bureau of Investigation ...Oct 79 46
Worksheets - Safeties ...Jul 95 vii
Worksheets - Trigger pull ...Jul 95 vii
Worksheets - Trigger pull ...Oct 93 vii
Worksheets ...NLR 1 15
Worksheets, computerized ...Summer 98 575
Wound Ballistics Association ...Apr 91 654
Wounding effects - 5.7x28mm 23gr. FMJ bullet and FN P-90 ...Spring 98 326
Wounding effects - 9mm 147gr. JHP and HK MP-5 ...Spring 98 330 & Peer review ...Summer 98 560
Wounding effects - 9mm vs. .223 ...Apr 93 142
Wounding effects - Balloting bullets, Exterior and wound ballistics & physical characteristics ...Fall 2002 375
Wounding effects - Blank cartridges, fatal neck injuries, Firearms Report Review Paper - 1998-2001 ...Fall 2002 409
Wounding effects - Blunt and sharp injury, nomenclature ...Apr 89 355
Wounding effects - Blunt and sharp injury, nomenclature ...Jul 84 41
Wounding effects - Book review - "Bullet Penetration - Modeling . . ." ...Apr 95 150
Wounding effects - Book review - Management of Gunshot Wounds ...Jan 89 47
Wounding effects - Bullet performance ...Oct 88 446
Wounding effects - Choke™ 12 gauge 00 Buckshot loads ...Summer 02 287
Wounding effects - Dumdum bullets from military pistol ammunition ...Winter 98 112
Wounding effects - Entrance and exit wounds ...Jul 77 157
Wounding effects - Five gunshot wounds from a single shot ...Apr 79 34
Wounding effects - FN - Model P-90 (5.7x28mm, 31 grain, SS-190 FMJ bullet) ...Summer 02 302
Wounding effects - Forensic examinations ...Jan 80 11
Wounding effects - Frangible bullets, wounding potential and other forensic concerns, Firearms Report Review Paper - 1998-2001 ...Fall 2002 409
Wounding effects - Glaser Safety ammunition, three cases, Firearms Report Review Paper - 1998-2001 ...Fall 2002 409
Wounding effects - Gunshot wound ballistics ...Oct 84 46
Wounding effects - Gunshot wounds in the skull, Firearms Report Review Paper - 1998-2001 ...Fall 2002 409
Wounding effects - Handgun cartridges - plasticine tests ...Apr 82 110
Wounding effects - Handgun Stopping Power (book review) ...Oct 92 383

Wounding effects - Hatcher's tests ...Apr 88 129
Wounding effects - Keyhole defect production in tubular bone, Firearms Report Review Paper - 1998-2001 ...Fall 2002 409
Wounding effects - Large entrance, small exit ...Dec 75 74
Wounding effects - Military rifle bullets ...Oct 89 643
Wounding effects - Misconceptions ...Jan 89 25
Wounding effects - Modeling Blunt Trauma from Projectile Impact ...Winter 02 26
Wounding effects - Mortality associated with use of weapons in armed conflicts, wartime atrocities, and civilian mass shootings, literature review, Firearms Report Review Paper - 1998-2001 ...Fall 2002 409
Wounding effects - Muzzle imprint of 4-shot derringer ...Jul 96 154
Wounding effects - Non-combat munitions injuries, US Army, Firearms Report Review Paper - 1998-2001 ...Fall 2002 409
Wounding effects - One wound, two bullets ...Jul 79 60
Wounding effects - Overview ...Oct 82 84
Wounding effects - Rifles, Centerfire, Wounds from civilian and military, US Army, Firearms Report Review Paper - 1998-2001 ...Fall 2002 409
Wounding effects - Scientific methods, advances in - Firearms Report - Speaking Paper 1998 - 2001 ...Fall 2002 362
Wounding effects - See also Ballistics, terminal
Wounding effects - Shored exit wounds, incomplete, three cases, Firearms Report Review Paper - 1998-2001 ...Fall 2002 409
Wounding effects - Shotgun slug entrance wound sizes ...Apr 89 429
Wounding effects - Shotgun slug entrance wound sizes ...Oct 87 433
Wounding effects - Silencer, Multiple entrance wounds from one bullet due to use of a silencer, Firearms Report Review Paper - 1998-2001 ...Fall 2002 409
Wounding effects - Skin Perforation and Skin Simulants ...Summer 02 268
Wounding effects - Tissue disruption pattern & direction of fire ...Jul 95 250
Wounding effects - Tungsten frangible bullet wounds in pig, autopsy and X-Rays, Firearms Report Review Paper - 1998-2001 ...Fall 2002 409
Wounding effects - Unconventional ammunition ...Apr 84 103
Wounding effects - Unusual bullet wound ...Jan 92 55
Wounding effects - Video - Wound Ballistics ...Oct 88 468
Wounding effects - War wounds, modern, Firearms Report Review Paper - 1998-2001 ...Fall 2002 409
Wounding effects - Wound track casts ...Jul 75 110
Wounding effects ...Dec 72 27
Wyoming Arms - Parker 10mm S. S. Pistol ...Apr 90 191
Wyoming Arms - Parker 45 Semiautomatic Pistol ...Jul 91 859
X-rays - Bullet caliber determination ...Apr 80 47
X-rays - Bullet caliber determination ...Apr 89 140
X-rays - Bullet caliber determination ...Apr 89 168
X-rays - Bullet caliber determination ...Apr 89 168
X-rays - Bullet caliber determination ...Apr 89 243
X-rays - Bullet caliber determination ...Jul 75 68
X-rays - Bullet caliber determination ...Jul 80 66
X-rays - Bullet caliber determination admissible ...Jul 80 85
X-rays - Bullet caliber determination, problems ...Apr 80 54
X-rays - Bullet size ...Apr 85 44
X-rays - Bullets ...NLR 12 45
X-rays - Bullets ...Oct 72 22
X-rays - Firearm parts ...Winter 99 46
X-rays - Matching a bullet to an X-ray ...Oct 89 605
X-rays - Peters method of bullet examination ...Jul 82 11
X-rays - Peters method of bullet examination ...Jul 82 9
X-rays - Use in Medicolegal Investigations ...Jan 84 14
Yaw - See Ballistics, external
Zee bullets - Another entry into the lead-free market ...Spring 01 149
Zero One gun rest ...Oct 91 973
Zinc bullets - Federal BallisticClean ...Winter 99 53
Zip guns - See **Homemade Firearms**
Zipper - Toolmarks identified ...Jan 79 25
Zoli Arms Company - Sears stock numbers ...Jun 78 54

MAJOR HEADINGS

AFTE	Computers & computer assistance	Headstamp	Safety
Air guns	Concealed firearms	History	Safety warning
Automatic conversion	Consecutive manufacture	Homemade firearm	Scanning electron microscope
Ballistics, external	Conversion kits	IBIS	Serial number restoration
Ballistics, internal	Court testimony	Knives	Serial numbers
Ballistics, terminal	Crime scenes	Locks	Shoe prints
Black powder	Criteria for identification	Manufacturing marks	Shotguns
Book review	Distance determination	Mathematical models	Shotshells & components
Bullet comparison	Equipment	Microscopes & techniques	Silencer
Bullet recovery	Evidence	Non-lethal weapons	Tires
Bullets	Explosives & devices	Photography	Toolmarks
Cartridge case comparison	Fingernail comparisons	Physical match	Trace evidence
Cartridge interchangeability	Firearm examination	Primer residues	Training
Cartridges	Firearm identification	Primers	Trigger pull
Case law	Firearms	Quality Assurance	Wood
Casting materials & techniques	Firing pin	Reloading	Worksheets
Certification	Glass	Ricochet	Wounding effects
Class characteristics	Gunpowder	Rifling	X-rays
	Gunshot residues	Safes	
		Safeties	