CPC COOPERATIVE PATENT CLASSIFICATION

F MECHANICAL ENGINEERING; LIGHTING; HEATING; WEAPONS; BLASTING (NOTE omitted)

WEAPONS; **BLASTING**

F42 AMMUNITION; BLASTING

(NOTES omitted)

F42B EXPLOSIVE CHARGES, e.g. FOR BLASTING, FIREWORKS, AMMUNITION

(explosive compositions C06B; fuzes F42C; blasting F42D)

WARNINGS

1. The following IPC groups are not in the CPC scheme. The subject matter for these IPC groups is classified in the following CPC groups:

F42B 5/14 covered by <u>F42B 12/40</u>, <u>A01K 11/00</u>

2. In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.

Limitiators therefor (percussion fuzes F42C 7/00; but not dependent on shape of container but not dependent on shape of container cavities in the charge F42B 3/08; oil winning using shaped-charge perforators E21B 43/116)
1/02 Shaped or hollow charges (blasting cartridges with cavities in the charge F42B 3/08; oil winning using shaped-charge perforators E21B 43/116) 1/024 . provided with embedded bodies of inert material 1/028 . characterised by the form of the liner 1/032 . characterised by the material of the liner 1/036 . Manufacturing processes therefor {F42B 3/0214 - F42B 33/0292 take precedence}} 1/04 . Detonator charges not forming part of the fuze 3/10 3/00 Blasting cartridges, i.e. case and explosive (fuse cords, e.g. detonating fuse cords C06C 5/00; chemical aspects of detonators, blasting caps or primers C06C 7/00) 3/003 . {Liquid-oxygen cartridges} 3/003 . {Explosive bolts; Explosive actuators (explosive valves F16K 13/06; explosive cutting B23D 15/145; explosive switches H01H 39/00; pyrotechnical actuators F15B 15/19) 3/02 . adapted to be united into assemblies 3/04 . for producing gas under pressure {(generators of inflation fluid especially adapted for vehicle air bags 3/12 . Shaped or hollow charge F42B 3/13 takes precedence over groups F42B 3/18 takes precedence over groups F42B 3/103 - F42B 3/16. 3/103 . Mounting initiator heads in initiators; Sealing-plugs 3/107 . Sealing-plugs characterised by the material used 3/107 . Sealing-plugs characterised by the material used, e.g. for initiator case or electric leads (F42B 3/107 takes precedence) 3/113 . activated by optical means, e.g. laser, flashlight 3/114 . activated by friction 3/115 . activated by friction 3/117 . activated by friction 3/118 . activated by friction 3/119 . activated by friction 3/110 . Bridge initiators {(F42B 3/103, F42B 3/11, F42B 3/195 take precedence; electric ignitors in propellant charges F42C 19/12)} 3/110 . activated by friction 3/111 . activated by friction 3/112 . Bridge initiators (F42B 3/103, F42B 3/11, F42B 3/195 take precedence; electric ignitors in propellant charges F42C 19/12) 3/110 . [Initiators with incorporated integrated circuit] 3/110 . activated by friction 3/110 . [Initiator case or electric ignitors in propellant c
cavities in the charge F42B 3/08; oil winning using shaped-charge perforators E21B 43/116) 1/024 . provided with embedded bodies of inert material 1/028 . characterised by the form of the liner 1/032 . characterised by the material of the liner 1/036 . Manufacturing processes therefor {(F42B 33/0214 · F42B 33/0292 take precedence)} 1/04 . Detonator charges not forming part of the fuze 3/10 3/00 Blasting cartridges, i.e. case and explosive (fuse cords, e.g. detonating fuse cords C06C 5/00; chemical aspects of detonators, blasting caps or primers C06C 7/00) 3/003 . {Liquid-oxygen cartridges} 3/104 . {Explosive bolts; Explosive actuators (explosive valves F16K 13/06; explosive cutting B23D 15/145; explosive switches H01H 39/00; pyrotechnical actuators F15B 15/19)} 3/02 . adapted to be united into assemblies 3/04 . for producing gas under pressure {(generators of inflation fluid especially adapted for vehicle air bags SOB Corour F42B 3/18 takes precedence over groups F42B 3/103 - F42B 3/16. Group F42B 3/18 takes precedence over groups F42B 3/103 - F42B 3/16. . Mounting initiators heads in initiators; Sealing-plugs characterised by the material used on the initiator case or electric leads (F42B 3/107 takes precedence) solution initiator case or electric leads (F42B 3/107 takes precedence) activated by optical means, e.g. laser, flashlight or activated by friction 3/117 . activated by friction 3/121 . Bridge initiators {(F42B 3/103, F42B 3/11, F42B 3/15, E42B 3/103, F42B 3/11, F42B 3/19} in propellant charges F42C 19/12)} 3/02 . adapted to be united into assemblies 3/124 . {(Initiators with incorporated integrated circuit) actuators F15B 15/19)} 3/03 . adapted to be united into assemblies 3/125 {(Programmable electronic delay initiators) of the bridge (F42B 3/13 takes precedence)} 3/125 {(Characterised by the configuration or material of the bridge (F42B 3/13 takes precedence)} 3/125 {(Characterised by the configuration of the bridge (F42B 3/13 takes precedence)} 3/126 {(Characte
shaped-charge perforators E21B 43/116) 1/024 . provided with embedded bodies of inert material 1/028 . characterised by the form of the liner 1/032 . characterised by the material of the liner 1/036 . Manufacturing processes therefor {(F42B 33/0214 - F42B 33/0292 take precedence)} 1/04 . Detonator charges not forming part of the fuze 1/04 . Detonator charges not forming part of the fuze 1/04 . Detonator charges not forming part of the fuze 1/04 . Detonator charges not forming part of the fuze 1/05 Blasting cartridges, i.e. case and explosive (fuse cords, e.g. detonating fuse cords C06C 5/00; chemical aspects of detonators, blasting caps or primers 1/05 C06C 7/00) 1/06 [Explosive bolts; Explosive actuators (explosive valves F16K 13/06; explosive cutting B23D 15/145; explosive switches H01H 39/00; pyrotechnical actuators F15B 15/19)} 1/05 Adapted to be united into assemblies 1/06 for producing gas under pressure {(generators of inflation fluid especially adapted for vehicle air bags} 1/07 Coharacterised by the material and initiators every groups F42B 3/18 takes precedence over groups F42B 3/105. 1/08 Mounting initiator heads in initiators; Sealing-plugs characterised by the material used e. Mounting initiator heads in initiators; Sealing-plugs characterised by the material used e. Mounting initiator heads in initiators; Sealing-plugs characterised by the material used e. Mounting initiator heads in initiators; Sealing-plugs characterised by the material used e. Mounting initiator heads in initiators; Sealing-plugs characterised by the material used e.g. for initiator case or electric leads (F42B 3/107 takes precedence) 1/04 Detonator charges fa2 5/107 takes precedence) 1/05 Alaracterised by the material used, e.g. for initiator case or electric leads (F42B 3/107 takes precedence) 1/05 Alaracterised by the material used, e.g. for initiator case or electric leads (F42B 3/107 takes precedence) 1/05 Alaracterised by the configuration or material of the bridge (F42B 3/13 takes precedence) 1/08 Alaracterised b
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aspects of detonators, blasting caps or primers C06C 7/00) 3/117 3/203 4 Liquid-oxygen cartridges 3/12 5 Explosive bolts; Explosive actuators (explosive valves F16K 13/06; explosive cutting B23D 15/145; explosive switches H01H 39/00; pyrotechnical actuators F15B 15/19) 3/122 3/02 3/03 4 Liquid-oxygen cartridges 3/12 5 Explosive bolts; Explosive actuators (explosive valves F16K 13/06; explosive cutting B23D 15/145; explosive switches H01H 39/00; pyrotechnical actuators F15B 15/19) 3/122 3/121 3/122 3/123 4 Characterised by optical means, e.g. laser, flashlight activated by friction 3/124 5 F42B 3/195 take precedence; electric ignitors in propellant charges F42C 19/12) 10/12 10
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3/02 • adapted to be united into assemblies 3/124 • • {characterised by the configuration or material of the bridge (F42B 3/13 takes precedence)} inflation fluid especially adapted for vehicle air bags 3/125 • • • {characterised by the configuration of the bridge (F42B 3/13 takes precedence)}
3/04 • for producing gas under pressure {(generators of inflation fluid especially adapted for vehicle air bags of the bridge (F42B 3/13 takes precedence)} • characterised by the configuration of
inflation fluid especially adapted for vehicle air bags 3/125 {characterised by the configuration of
B60R 21/26)} the bridge initiator case (F42B 3/11 takes
3/045 • {Hybrid systems with previously pressurised precedence)}
gas using blasting to increase the pressure, e.g. 3/127 {the case having burst direction defining
causing the gas to be released from its sealed elements}
container 3/128 {characterised by the composition of the pyrotechnic material}
blasting cartridges 3/14 . Spark initiators {(F42B 3/195 takes precedence)} 3/087 . Flexible or deformable blasting cartridges, e.g. 3/16 . {Pyrotechnic} delay initiators (F42B 3/195 takes
bags or hoses {for slurries}(loaded cartridge bags precedence; {programmable electronic delay
F42B 5/38) initiators F42C 11/065})
3/093 • in mat or tape form 3/18 • Safety initiators resistant to premature firing by
static electricity or stray currents
$3/182$ having shunting means {(F42B 3/185 takes)
precedence; details of shunting devices
<u>H01R 13/7032</u>)}

3/185	 having semi-conductive {means, e.g.} sealing plugs 	5/035	plurality of axially stacked projectiles each
3/188	• • having radio-frequency filters {, e.g. containing	5/045	having a separate propellant charge}
	ferrite cores or inductances (<u>F42B 3/185</u> takes	5/045	• • of telescopic type (<u>F42B 5/184</u> takes precedence)
	precedence)}	5/05	• • for recoilless guns (recoilless guns using a
3/192	designed for neutralisation on contact with water		counter-projectile to balance recoil <u>F41A 1/10</u>)
3/195	Manufacture	5/067	• Mounting or locking missiles in cartridge cases
3/198	• • of electric initiator heads {e.g., testing,		(<u>F42B 5/18</u> takes precedence)
	machines}	5/073	using an auxiliary locking element
3/22	• Elements for controlling or guiding the detonation	5/08	 modified for electric ignition
	wave, e.g. tubes (using inert bodies embedded in	5/10	• • with self-propelled bullet
	shaped or hollow charges F42B 1/024)	5/105	• • • {propelled by two propulsive charges, the
3/24	 Cartridge closures or seals (top closures for shotgun ammunition cartridges <u>F42B 7/12</u>) 		rearwardly situated one being separated from the rest of the projectile during flight or in the
3/26	 Arrangements for mounting initiators; Accessories therefor, e.g. tools 		barrel; Projectiles with self-ejecting cartridge cases}
3/28	• Cartridge cases characterised by the material used, e.g. coatings (for initiator cases F42B 3/11)	5/145	• • for dispensing gases, vapours, powders, particles or chemically-reactive substances (from
4/00	Fireworks, i.e. pyrotechnic devices for amusement,		projectiles <u>F42B 12/46</u>)
2,00	display, illumination or signal purposes (signalling by explosives <u>G08B</u> ; advertising by fireworks	5/15	• • • for creating a screening or decoy effect, e.g. using radar chaff or infrared material (infrared flares F42B 4/26)
	G09F 13/46; {signalling by pyrotechnics in railway	5/155	Smoke-pot projectors, e.g. arranged on
	systems <u>B61L 5/20</u> })	2, 222	vehicles
4/02	• in cartridge form, i.e. shell, propellant and primer	5/16	characterised by composition or physical
4/04	. Firecrackers		dimensions or form of propellant charge,
4/06	 Aerial display rockets (rockets in general F42B 15/00) 		{with or without projectile,} or powder (chemical composition C06B; {F42B 5/24 takes
4/08	characterised by having vanes, wings, parachutes		precedence})
	or balloons	5/18	Caseless ammunition; Cartridges having
4/10	 characterised by having means to separate article 		combustible cases
	or charge from casing without destroying the casing	5/181	• • {consisting of a combustible casing wall and a metal base; Connectors therefor}
4/12	Parachute or flare separation	5/182	• • • {Caseless cartridges characterised by their
4/14	 characterised by having plural successively- 		shape}
	ignited charges	5/184	telescopic
4/16	 Hand-thrown impact-exploded noise makers; {Other 	5/188	Manufacturing processes therefor
	noise-makers generating noise via a pyrotechnic	5/192	Cartridge cases characterised by the material
	charge (cap pistols <u>F41C 3/06</u>)	5, 1 y 2	{of the casing wall (cartridge bags F42B 5/38)}
4/18	 Simulations, e.g. pine cone, house that is destroyed, 	5/196	· · · · Coatings
	warship, volcano	5/24	• • for cleaning; for cooling; for lubricating {; for
4/20	 characterised by having holder or support other than 	5,2.	wear reducing}
	casing, e.g. whirler or spike support {(supports for	5/26	• Cartridge cases (F42B 5/18 takes precedence {;
	flares or torches <u>F42B 4/26</u>)	2,20	manufacturing of cartridge cases <u>B21K 21/04</u> })
4/22	 characterised by having means to separate article or 	5/28	• • of metal {, i.e. the cartridge-case tube is of metal}
	charge from casing without destroying the casing (in	5/285	formed by assembling several elements
	aerial display rockets <u>F42B 4/10</u>)	5/29	wound from sheets or strips
4/24	 characterised by having plural successively-ignited 	5/295	coated
	charges (in aerial display rockets F42B 4/14)		
4/26	• Flares; Torches {(mines for practice or training	5/297	with plastics
	containing flares or illuminating charges <u>F42B 8/28</u> ; projectiles of illuminating type <u>F42B 12/42</u>)}	5/30	• • of plastics {, i.e. the cartridge-case tube is of plastics}
4/28	• Parachute flares (<u>F42B 4/12</u> takes precedence)	5/307	formed by assembling several elements
4/30	. Manufacture	5/313	all elements made of plastics
= 100		5/32	• • for rim fire
5/00	Cartridge ammunition, e.g. separately-loaded	5/34	• • with provision for varying the length
	propellant charges (shotgun ammunition F42B 7/00;	5/36	modified for housing an integral firing-cap
	practice or training ammunition <u>F42B 8/00</u> ; missiles	5/38	Separately-loaded propellant charges, e.g. cartridge
5.000	therefor <u>F42B 12/00</u> , <u>F42B 14/00</u> , <u>F42B 15/00</u>)		bags {(<u>F42B 5/16</u> , <u>F42B 5/192</u> take precedence)}
5/02	Cartridges, i.e. cases with charge and missile		
5/025	 {characterised by the dimension of the case or the missile} 		
5/03	containing more than one missile		

6/00	Projectiles or missiles specially adapted for projection without use of explosive or combustible propellant charge, e.g. for blow guns, bows or crossbows, hand-held spring or air guns (for delivering hypodermic charges F42B 12/54; projectiles or missiles incorporating springs as the	10/00	Means for influencing, e.g. improving, the aerodynamic properties of projectiles or missiles; Arrangements on projectiles or missiles for stabilising, steering, range-reducing, range-increasing or fall-retarding (F42B 6/00 takes precedence)
	projecting means <u>F41B 7/02</u> ; {Arrows or darts for	10/02	Stabilising arrangements
	dispensing materials, for producing chemical or	10/025	{using giratory or oscillating masses for
	physical reaction, or for signalling <u>F42B 12/362</u> })		stabilising projectile trajectory}
6/003	• {Darts}	10/04	• using fixed fins (<u>F42B 10/22</u> takes precedence)
6/006	• {Projectiles for electromagnetic or plasma guns}	10/06	Tail fins
6/02	• Arrows; Crossbow bolts; Harpoons for hand-held	10/08	Flechette-type projectiles
6/04	spring or air guns • Archery arrows (<u>F42B 6/08</u> , <u>F41B 5/06</u> ,	10/10	 the fins being formed in the barrel by deformation or the projectile body
	$\{F42B \ 12/362\}$ take precedence)	10/12	using fins longitudinally-slidable with respect to
6/06	Tail ends, e.g. nocks, fletching		the projectile or missile
6/08	Arrow heads; Harpoon heads	10/14	using fins spread or deployed after launch, e.g.
6/10	• Air gun pellets {; Ammunition for air guns, e.g.		after leaving the barrel
	propellant-gas containers}	10/143	• • • {Lattice or grid fins}
7/00	Shotgun ammunition	10/146	• • • {Fabric fins, i.e. fins comprising at least one
7/02	Cartridges, i.e. cases with propellant charge and missile		spar and a fin cover made of flexible sheet material}
7/04	• • of pellet type	10/16	Wrap-around fins
7/043	• • • {with shot-scattering means}	10/18	using a longitudinally slidable support member
7/046	• • {With shot-scattering means} • • • {Pellets or shot therefor}	10/20	deployed by combustion gas pressure, or by
7/06	 with cartridge case of plastics {(<u>F42B 5/30</u> takes precedence)} 	10/22	pneumatic or hydraulic forces • Projectiles of cannelured type
7/08	Wads, {i.e. projectile or shot carrying devices,}	10/24	with inclined grooves
7/08	therefor	10/26	• using spin (<u>F42B 10/04</u> , <u>F42B 10/12</u> ,
7/10	Ball or slug shotgun cartridges		<u>F42B 10/14</u> , <u>F42B 10/24</u> , <u>F42B 14/02</u> take
7/12	Cartridge top closures, i.e. for the missile side		precedence)
7712	(closures for blasting cartridges F42B 3/24)	10/28	induced by gas action
		10/30	using rocket motor nozzles
8/00	Practice or training ammunition	10/32	• Range-reducing or range-increasing arrangements;
8/02	• Cartridges {(<u>F41A 33/02</u> , <u>F42B 7/12</u> take	10/01	Fall-retarding means
0./0.4	precedence)}	10/34	Tubular projectiles
8/04	Blank cartridges, i.e. primed cartridges without	10/36	Ring-foil projectiles
	projectile but containing an explosive or combustible powder charge	10/38	• Range-increasing arrangements (<u>F42B 10/34</u> , <u>F42B 14/06</u> {and <u>F42B 15/105</u> } take precedence)
8/06	for cap-firing pistols	10/40	• • • with combustion of a slow-burning charge, e.g.
8/08	Dummy cartridges, i.e. inert cartridges containing		fumers, base-bleed projectiles
	neither primer nor explosive or combustible	10/42	Streamlined projectiles
0/10	powder charge	10/44	Boat-tails specially adapted for drag
8/10	• with sub-calibre adaptor		reduction
8/12	 Projectiles or missiles (<u>F42B 10/48</u>, <u>F42B 12/36</u>, <u>F42B 19/36</u> take precedence) 	10/46	Radomes {(F42B 12/105 takes precedence)}
8/14	• • disintegrating in flight or upon impact NOTE	10/48	 Range-reducing, destabilising or braking arrangements, {e.g. impact-braking
	Group <u>F42B 8/14</u> takes precedence over groups <u>F42B 8/18</u> - <u>F42B 8/26</u>		arrangements}; Fall-retarding means, {e.g. balloons, rockets for braking or fall-retarding}(F42B 10/34 takes precedence)
0/1/	containing on input EII i 1	10/50	Brake flaps {, e.g. inflatable}
8/16	containing an inert filler in powder or granular	10/52	Nose cones
0/10	form	10/54	Spin braking means
8/18	. Rifle grenades	10/56	of parachute {or paraglider} type
8/20	Mortar grenades	10/58	of rotochute type
8/22	. Fall bombs	10/60	Steering arrangements (F42B 19/01 takes
8/24	. Rockets	10,00	precedence)
8/26	Hand grenades	10/62	Steering by movement of flight surfaces
8/28	Land or marine mines; Depth charges	10/64	of fins

10/66	Steering by varying intensity or direction of thrust (thrust vector control of rocket engine plants)	12/26	• • • the projectile wall being formed by a spirally-wound element
	F02K 9/80 {; guiding or controlling apparatus using jets adapted for cosmonautic vehicles B64G 1/26})	12/28 12/30	 the projectile wall being built from annular elements Continuous-rod warheads
10/661	• • • {using several transversally acting rocket	12/30	the hull or case comprising a plurality of
	motors, each motor containing an individual propellant charge, e.g. solid charge}	12/32	discrete bodies, e.g. steel balls, embedded therein {or disposed around the explosive
10/663	using a plurality of transversally acting auxiliary nozzles, which are opened or closed by velves?	12/34	charge} expanding before or on impact, i.e. of dumdum or
10/665	by valves}• {characterised by using a nozzle provided with at least a deflector mounted within the nozzle}	12/36	 mushroom type for dispensing materials; for producing chemical or physical reaction; for signalling {; for
10/666	{characterised by using a nozzle rotatable about an axis transverse to the axis of the projectile}	12/262	transmitting information}
10/668	• • { Injection of a fluid, e.g. a propellant, into the gas shear in a nozzle or in the boundary layer at the outer surface of a missile, e.g. to create a shock wave in a supersonic flow}	12/362	{Arrows or darts (<u>F42B 12/38</u> takes precedence, having means for implantation, e.g. hypodermic projectiles <u>F42B 12/54</u> ; arrows or darts in general <u>F42B 6/00</u>)}
12/00	Projectiles, missiles or mines characterised	12/365	• • {Projectiles transmitting information to a remote location using optical or electronic means (F42B 12/385 takes precedence)}
	by the warhead, the intended effect, or the material (F42B 6/00, F42B 10/00, F42B 14/00 take precedence; for practice or training F42B 8/12, F42B 8/28; self-propulsion or guidance aspects	12/367	• • • {Projectiles fragmenting upon impact without the use of explosives, the fragments creating a wounding or lethal effect (practice or training projectiles disintegrating upon impact
12/02	F42B 15/00)		F42B 8/14; projectiles of high-explosive
12/02 12/04	characterised by the warhead or the intended effectof armour-piercing type		type with fragmentation-hull construction F42B 12/22)}
12/06	with hard or heavy core; Kinetic energy	12/38	of tracer type
	penetrators (<u>F42B 12/16</u> , <u>F42B 12/74</u> take precedence)	12/382	• • • {emitting an electromagnetic radiation, e.g. laser beam or infrared emission}
12/08	 with armour-piercing caps; with armoured cupola 	12/385	• • • • {Arrow or dart carrying a radio transmitter for signalling}
12/10	hollow charges per se F42B 1/02 {; mines	12/387	• • • {Passive tracers, e.g. using a reflector mounted on the projectile}
12/105	 having hollow charges <u>F42B 23/04</u>}) • • • {Protruding target distance or stand-off members therefor, e.g. slidably mounted 	12/40	• • • of target-marking, i.e. impact-indicating type (F42B 12/48, {F42B 12/50}) take precedence)
	(fuze aspects F42C 1/14)}	12/42	• • of illuminating type, e.g. carrying flares
12/12	• • • rotatably mounted with respect to missile housing	12/44	• • • of incendiary type (<u>F42B 12/46</u> takes precedence)
12/14	• • • the symmetry axis of the hollow charge forming an angle with the longitudinal axis of the projectile	12/46	 for dispensing gases, vapours, powders or chemically-reactive substances (<u>F42B 12/70</u> takes precedence)
12/16	in combination with an additional projectile	12/48	• • • smoke-producing {, e.g. infrared clouds}
12/10	or charge, acting successively on the target	12/50	• • • by dispersion
	{(see also F42B 12/625)}	12/52	Fuel-air explosive devices
12/18	Hollow charges in tandem arrangement	12/54	• • • by implantation, e.g. hypodermic projectiles
12/20	• • of high-explosive type (<u>F42B 12/44</u> takes precedence)	12/56	• • • for dispensing discrete solid bodies (F42B 12/70 takes precedence)
12/201	• • • {characterised by target class}	12/58	Cluster or cargo ammunition, i.e. projectiles
12/202	• • • { for attacking land area or area targets, e.g. airburst }		containing one or more submissiles (F42B 12/32 takes precedence)
12/204	• • • { for attacking structures, e.g. specific buildings or fortifications, ships or vehicles }	12/60 12/62	the submissiles being ejected radiallythe submissiles being ejected parallel to
12/205	• • • { for attacking aerial targets }		the longitudinal axis of the projectile
12/207	 {characterised by the explosive material or the construction of the high explosive warhead, e.g. insensitive ammunition} 	12/625	{a single submissile arranged in a carrier missile for being launched or accelerated coaxially; Coaxial tandem
12/208	• • • {characterised by a plurality of charges within a single high explosive warhead}		arrangement of missiles which are active in the target one after the other (with shaped or hollow charges F42B 12/16)}
12/22 12/24	 with fragmentation-hull construction with grooves, recesses or other wall weakenings {(F42B 12/26, F42B 12/28 take precedence)} 	12/64	• • • • • • • • • • • • • • • • • • •

12/66	Chain-shot, i.e. the submissiles being interconnected by chains or the like {(ballistically deployed systems for restraining persons or animals F41H 13/0006)}	15/01	• Arrangements thereon for guidance or control ({steering arrangements <u>F42B 10/60</u> }; aircraft flight control <u>B64C</u> ; guidance systems other than those installed aboard <u>F41G 7/00</u> , <u>F41G 9/00</u> ; locating by use of radio or other waves <u>G01S</u> ; flight control in
12/68	Line-carrying missiles, e.g. for life-saving (harpoons F42B 30/14 {, mine-clearing snakes F41H 11/14})	15/04	general G05D 1/00; computer aspects G06]) using wire, e.g. for guiding ground-to-ground rockets
12/70	for dispensing radar chaff or infrared material (radar-reflector targets, active targets transmitting infrared radiation F41J 2/00; radar-reflecting surfaces H01Q 15/14)	15/08	 for carrying measuring instruments; {Arrangements for mounting sensitive cargo within a projectile}(adaptations for meteorology G01W 1/08); {Arrangements for acoustic sensitive cargo within a projectile}
12/72	 characterised by the material (heat treatment for explosive shells <u>C21D 9/16</u>) 	15/10 15/105	 Missiles having a trajectory only in the air . {Air torpedoes, e.g. projectiles with or without
12/74	of the core or solid body		propulsion, provided with supporting air foil
12/745	• • • {the core being made of plastics; Compounds or blends of plastics and other materials, e.g.	15/12	surfaces} . Intercontinental ballistic missiles (F42B 15/01
	fillers}	13/12	takes precedence)
12/76	• of the casing	15/20	 Missiles having a trajectory beginning below water
12/78	• • • of jackets for smallarm bullets {; Jacketed bullets or projectiles}		surface (having additional propulsion means for movement through water F42B 17/00)
12/80	Coatings	15/22	 Missiles having a trajectory finishing below water
12/82	reducing friction		surface (having additional propulsion means for movement through water F42B 17/00)
14/00	Projectiles or missiles characterised by arrangements for guiding or sealing them inside barrels, or for lubricating or cleaning barrels	15/34	 Protection against overheating or radiation, e.g. heat shields; Additional cooling arrangements {(thermal protection fitted in or to cosmonautic vehicles
14/02	 Driving bands; Rotating bands (<u>F42B 14/04</u> takes precedence) 	15/36	B64G 1/58)} Means for interconnecting rocket-motor and body
14/04	 Lubrication means in missiles (coatings for reducing friction F42B 12/82) 		section; Multi-stage connectors; Disconnecting means
14/06	 Sub-calibre projectiles having sabots; Sabots 	15/38	Ring-shaped explosive elements for the
14/061	 therefor {Sabots for long rod fin stabilised kinetic energy projectiles, i.e. multisegment sabots attached midway on the projectile} 		separation of rocket parts {(systems for coupling or separating cosmonautic vehicles or parts thereof <u>B64G 1/64</u>)}
14/062	 {characterised by contact surfaces between projectile and sabot} 	17/00	Rocket torpedoes, i.e. missiles provided with separate propulsion means for movement
14/064			through air and through water (<u>F42B 12/00</u> takes precedence)
	obturator base and petals extending forward from said base}	19/00	Marine torpedoes, e.g. launched by surface vessels or submarines (having additional propulsion means
14/065	• • {Sabots carrying several projectiles}		for movement through air F42B 17/00); Sea mines
14/067	• • {Sealing aspects in sabots, e.g. sealing between		having self-propulsion means (F42B 12/00 takes
	individual segments of the sabots or sealing between the outer surface of the sabot and the		precedence; launching means <u>F41F</u> ; locating by use of radio or other waves <u>G01S</u> ; automatic control of
	inner surface of the barrel}		course G05D 1/00; firing directors or calculators
14/068	• • {Sabots characterised by the material		<u>G06G</u>)
14/08	 (<u>F42B 14/067</u> takes precedence)} Sabots filled with propulsive charges; Removing 	19/005	 {Nose caps for torpedoes; Coupling torpedo-case parts together}
	sabots by combustion of pyrotechnic elements	19/01	Steering control
	or by propulsive-gas pressure (arrangements	19/04	Depth control
	on barrels for removing sabots from projectiles	19/06	Directional control
	<u>F41A 21/46</u>)	19/08	with means for preventing rolling or pitching
15/00	Self-propelled projectiles or missiles, e.g. rockets; Guided missiles (F42B 10/00, F42B 12/00,	19/10	• remotely controlled, e.g. by sonic or radio control (control systems using wire F41G 7/32)
	F42B 14/00 take precedence; for practice or training F42B 8/12; rocket torpedoes F42B 17/00; marine	19/12	 Propulsion specially adapted for torpedoes (having additional propulsion means for movement through
	torpedoes F42B 19/00; cosmonautic vehicles B64G;		air <u>F42B 17/00</u> ; marine propulsion in general <u>B63H</u>)
	jet-propulsion plants <u>F02K</u>)	19/125	• • {Torpedoes provided with drag-reducing means (projectiles with drag-reducing means F42B 10/38)}
		19/14	by compressed-gas motors
		19/16	of cylinder type

19/18	• • • of turbine type	29/00	Noiseless, smokeless, or flashless missiles launched
19/20	characterised by the composition of propulsive		by their own explosive propellant
	gas; Manufacture or heating thereof in	30/00	Projectiles or missiles, not otherwise provided
10/00	torpedoes		for, characterised by the ammunition class or
19/22	by internal-combustion engines		type, e.g. by the launching apparatus or weapon
19/24	by electric motors		used (<u>F42B 10/00</u> , <u>F42B 12/00</u> , <u>F42B 14/00</u> take
19/26	by jet propulsion		precedence)
19/28	with means for avoiding visible wake	30/003	 {Closures or baseplates therefor (closures for
19/30	• • with timing control of propulsion		blasting cartridges <u>F42B 3/24</u> , for shotgun
19/36	• adapted to be used for exercise purposes, e.g.		cartridges <u>F42B 7/12</u>)}
10/20	indicating position or course	30/006	• {Mounting of sensors, antennas or target trackers on
19/38	• with means for causing torpedoes to surface at		projectiles}
10/40	end of run	30/02	• Bullets
19/40	by expelling liquid ballast	30/04	. Rifle grenades
19/42	by releasing solid ballast	30/06	Bullet traps or bullet decelerators therefor
19/44	by enlarging displacement	30/08	 Ordnance projectiles or missiles, e.g. shells
19/46	adapted to be launched from aircraft	30/10	Mortar projectiles
21/00	Depth charges (F42B 12/00 takes precedence; for	30/12	• • • with provision for additional propulsive
	practice or training F42B 8/28; laying aspects B63G)		charges, or for varying the length
22/00	Markey and the state of the same of the sa	30/14	• Harpoons (for hand-held spring or air guns
22/00	Marine mines, e.g. launched by surface vessels		<u>F42B 6/02</u>)
	or submarines (F42B 12/00 takes precedence; for practice or training F42B 8/28; mine laying or	33/00	Manufacture of ammunition; Dismantling of
	sweeping <u>B63G</u>)		ammunition; Apparatus therefor (F42B 5/188
22/02	• Contact mines {, e.g. antenne-type mines}(contact		takes precedence; manufacturing processes for
22/02	fuzes F42C 7/02)		hollow charges <u>F42B 1/036</u> ; manufacture of blasting
22/04	Influenced mines, e.g. by magnetic or acoustic		cartridge initiators <u>F42B 3/195</u>)
	effect	33/001	• {Devices or processes for assembling ammunition,
22/06	Ground mines		cartridges or cartridge elements from parts}
22/08	• Drifting mines (with propulsion means F42B 19/00)	33/002	• {Orienting or guiding means for cartridges or
22/10	Moored mines		cartridge parts during the manufacturing or
22/12	at a fixed depth setting		packaging process; Feeding cartridge elements to automatic machines}
22/14	at a variable depth setting	33/004	• {Cartridge loaders of the rotatable-turret type}
22/16	using mechanical means, e.g. plummet and	33/004	• {Crimping cartridge cases on projectiles}
	float	33/003	{Making cavities in an explosive or propulsive}
22/18	using hydrostatic means	33/007	charge}
22/20	using magnetic or acoustic depth-control means	33/008	• {Cutting explosive or propulsive charges}
22/22	 having self-contained sinking means 	33/02	Filling cartridges, missiles, or fuzes; Inserting
22/24	 Arrangement of mines in fields or barriers (net 	22,02	propellant or explosive charges {(F42B 33/004
	barriers for harbour defence <u>F41H 11/05</u>)		takes precedence)}
22/42	 with anti-sweeping means, e.g. electrical 	33/0207	• • {Processes for loading or filling propulsive or
22/44	 adapted to be launched from aircraft 		explosive charges in containers}
23/00	Land mines {; Land torpedoes}(F42B 12/00 takes	33/0214	• • {by casting (<u>F42B 33/004</u> takes precedence)}
25/00	precedence; for practice or training F42B 8/28)	33/0221	• • • {by centrifugal casting}
23/005	• {Selfpropelled land mines}	33/0228	• • • {Funnel arrangements therefor}
23/04	• anti-vehicle {, e.g. anti-aircraft or anti tank (hollow	33/0235	• • • {Heating of casting equipment or explosive
20,0.	charges per se F42B 1/02; artillery projectiles		charge containers during the loading process}
	having hollow charges F42B 12/10)}	33/0242	• • • {by pressure casting}
23/08	non-metallic	33/025	• • {by compacting (<u>F42B 33/004</u> takes precedence)}
23/10	. anti-personnel	33/0257	• • • {by vibration compacting}
23/14	non-metallic	33/0264	• • {by using screw-type feeders (<u>F42B 33/004</u> takes
23/16	of missile type, i.e. {all kinds of mines launched}		precedence)}
	for detonation after ejection from ground (fuzes	33/0271	• • • {for extruding blasting cartridges}
	for initiating mine ejection <u>F42C 1/09</u>)	33/0278	• • {Safety arrangements therefor (F42B 33/004
23/24	• Details	22/0205	takes precedence)}
25/00	Fall bombs (<u>F42B 10/00</u> , <u>F42B 12/00</u> take	33/0285	• • {Measuring explosive-charge levels in containers
_5/00	precedence; for practice or training F42B 8/12 {;		or cartridge cases; Methods or devices for controlling the quantity of material fed or filled
	gliding type bombs <u>F42B 15/105</u> })		(F42B 33/004 takes precedence; controlling
			the quantity of material fed in packaging
27/00	Hand grenades (F42B 12/00 takes precedence; for		B65B 3/26)}
07/00	practice or training <u>F42B 8/12</u>)	33/0292	• • • {by volumetric measurement, i.e. the volume of
27/08	• with handle		the material being determined before filling}

33/04	• Fitting or extracting primers in or from fuzes or
22/06	charges {(<u>F42B 33/004</u> takes precedence)}
33/06	 Dismantling fuzes, cartridges, projectiles, missiles, rockets or bombs ({F42B 33/004 and} F42B 33/04
	take precedence; {elimination of undesirable
	components of explosives C06B 21/0091})
33/062	{by high-pressure water jet means}
33/065	• • {by laser means}
33/067	• • {by combustion (incineration apparatuses or
	processes for used articles <u>F23G 7/003</u>)}
33/10	 Reconditioning used cartridge cases {(<u>F42B 33/004</u> takes precedence)}
33/12	 Crimping shotgun cartridges {(<u>F42B 33/004</u> takes precedence)}
33/14	• Surface treatment of cartridges or cartridge cases {(<u>F42B 33/004</u> takes precedence)}
35/00	Testing or checking of ammunition {(apparatus for
22,00	measuring the energy of projectiles G01L 5/14)}
35/02	• Gauging, sorting, trimming or shortening cartridges
	or missiles
39/00	Packaging or storage of ammunition or explosive
37/00	charges; Safety features thereof; Cartridge belts or
	bags
39/002	• {Cartridge containers provided with cartridge-
	dispensing means}
39/005	• {Protection for driving bands}
39/007	• {Packaging or storage of arrows or darts (quivers
20.02	for arrows <u>F41B 5/06</u>)}
39/02	Cartridge bags; Bandoleers
39/08	• Cartridge belts
39/082	• (for caseless ammunition)
39/085	• • {for blank cartridges}
	 • {for blank cartridges} • {Feed belts manufactured from fabric or plastics
39/085 39/087	• {for blank cartridges}• {Feed belts manufactured from fabric or plastics material}
39/085	 • {for blank cartridges} • {Feed belts manufactured from fabric or plastics material} • Machines for charging or for extracting cartridges
39/085 39/087	 . {for blank cartridges} . {Feed belts manufactured from fabric or plastics material} . Machines for charging or for extracting cartridges from feed belts
39/085 39/087 39/10	 • {for blank cartridges} • {Feed belts manufactured from fabric or plastics material} • Machines for charging or for extracting cartridges
39/085 39/087 39/10	 • {for blank cartridges} • {Feed belts manufactured from fabric or plastics material} • Machines for charging or for extracting cartridges from feed belts • Explosion or fire protection arrangements on packages or ammunition (F42B 39/20) {and F42B 39/24} take precedence; {wall or panel
39/085 39/087 39/10	 . {for blank cartridges} . {Feed belts manufactured from fabric or plastics material} . Machines for charging or for extracting cartridges from feed belts . Explosion or fire protection arrangements on packages or ammunition (F42B 39/20) {and F42B 39/24} take precedence; {wall or panel structure of fireproof safes or storage containers
39/085 39/087 39/10 39/14	 . {for blank cartridges} . {Feed belts manufactured from fabric or plastics material} . Machines for charging or for extracting cartridges from feed belts . Explosion or fire protection arrangements on packages or ammunition (F42B 39/20) {and F42B 39/24} take precedence; {wall or panel structure of fireproof safes or storage containers E05G 1/024})
39/085 39/087 39/10 39/14	 . {for blank cartridges} . {Feed belts manufactured from fabric or plastics material} . Machines for charging or for extracting cartridges from feed belts . Explosion or fire protection arrangements on packages or ammunition (F42B 39/20 {and F42B 39/24} take precedence; {wall or panel structure of fireproof safes or storage containers E05G 1/024}) . Fire-extinguishing
39/085 39/087 39/10 39/14 39/16 39/18	 • {for blank cartridges} • {Feed belts manufactured from fabric or plastics material} • Machines for charging or for extracting cartridges from feed belts • Explosion or fire protection arrangements on packages or ammunition (F42B 39/20 { and F42B 39/24}) take precedence; {wall or panel structure of fireproof safes or storage containers E05G 1/024}) • Fire-extinguishing • Heat shields; Thermal insulation
39/085 39/087 39/10 39/14	 . {for blank cartridges} . {Feed belts manufactured from fabric or plastics material} . Machines for charging or for extracting cartridges from feed belts . Explosion or fire protection arrangements on packages or ammunition (F42B 39/20 { and F42B 39/24} take precedence; {wall or panel structure of fireproof safes or storage containers E05G 1/024}) . Fire-extinguishing . Heat shields; Thermal insulation . Packages or ammunition having valves for pressure-
39/085 39/087 39/10 39/14 39/16 39/18	 . {for blank cartridges} . {Feed belts manufactured from fabric or plastics material} . Machines for charging or for extracting cartridges from feed belts . Explosion or fire protection arrangements on packages or ammunition (F42B 39/20 {and F42B 39/24} take precedence; {wall or panel structure of fireproof safes or storage containers E05G 1/024}) . Fire-extinguishing . Heat shields; Thermal insulation . Packages or ammunition having valves for pressure-equalising; Packages or ammunition having
39/085 39/087 39/10 39/14 39/16 39/18	 . {for blank cartridges} . {Feed belts manufactured from fabric or plastics material} . Machines for charging or for extracting cartridges from feed belts . Explosion or fire protection arrangements on packages or ammunition (F42B 39/20 { and F42B 39/24} take precedence; {wall or panel structure of fireproof safes or storage containers E05G 1/024}) . Fire-extinguishing . Heat shields; Thermal insulation . Packages or ammunition having valves for pressure-
39/085 39/087 39/10 39/14 39/16 39/18	 {for blank cartridges} {Feed belts manufactured from fabric or plastics material} Machines for charging or for extracting cartridges from feed belts Explosion or fire protection arrangements on packages or ammunition (F42B 39/20 { and F42B 39/24} take precedence; {wall or panel structure of fireproof safes or storage containers E05G 1/024}) Fire-extinguishing Heat shields; Thermal insulation Packages or ammunition having valves for pressure-equalising; Packages or ammunition having plugs for pressure release, e.g. meltable {; Blowout panels; Venting arrangements (ventilating arrangements on packages formed from foldable
39/085 39/087 39/10 39/14 39/16 39/18	 . {for blank cartridges} . {Feed belts manufactured from fabric or plastics material} . Machines for charging or for extracting cartridges from feed belts . Explosion or fire protection arrangements on packages or ammunition (F42B 39/20) {and F42B 39/24} take precedence; {wall or panel structure of fireproof safes or storage containers E05G 1/024}) . Fire-extinguishing . Heat shields; Thermal insulation . Packages or ammunition having valves for pressure-equalising; Packages or ammunition having plugs for pressure release, e.g. meltable {; Blowout panels; Venting arrangements (ventilating arrangements on packages formed from foldable or erectable blanks B65D 5/4295; packages with
39/085 39/087 39/10 39/14 39/16 39/18	 {for blank cartridges} {Feed belts manufactured from fabric or plastics material} Machines for charging or for extracting cartridges from feed belts Explosion or fire protection arrangements on packages or ammunition (F42B 39/20 {and F42B 39/24} take precedence; {wall or panel structure of fireproof safes or storage containers E05G 1/024}) Fire-extinguishing Heat shields; Thermal insulation Packages or ammunition having valves for pressure-equalising; Packages or ammunition having plugs for pressure release, e.g. meltable {; Blowout panels; Venting arrangements (ventilating arrangements on packages formed from foldable or erectable blanks B65D 5/4295; packages with pressure-relief valves incorporated in a container
39/085 39/087 39/10 39/14 39/16 39/18 39/20	 . {for blank cartridges} . {Feed belts manufactured from fabric or plastics material} . Machines for charging or for extracting cartridges from feed belts . Explosion or fire protection arrangements on packages or ammunition (F42B 39/20) {and F42B 39/24} take precedence; {wall or panel structure of fireproof safes or storage containers E05G 1/024}) . Fire-extinguishing . Heat shields; Thermal insulation . Packages or ammunition having valves for pressure-equalising; Packages or ammunition having plugs for pressure release, e.g. meltable {; Blowout panels; Venting arrangements (ventilating arrangements on packages formed from foldable or erectable blanks B65D 5/4295; packages with pressure-relief valves incorporated in a container wall B65D 77/225)}
39/085 39/087 39/10 39/14 39/16 39/18 39/20	 . {for blank cartridges} . {Feed belts manufactured from fabric or plastics material} . Machines for charging or for extracting cartridges from feed belts . Explosion or fire protection arrangements on packages or ammunition (F42B 39/20) {and F42B 39/24} take precedence; {wall or panel structure of fireproof safes or storage containers E05G 1/024}) . Fire-extinguishing . Heat shields; Thermal insulation . Packages or ammunition having valves for pressure-equalising; Packages or ammunition having plugs for pressure release, e.g. meltable {; Blowout panels; Venting arrangements (ventilating arrangements on packages formed from foldable or erectable blanks B65D 5/4295; packages with pressure-relief valves incorporated in a container wall B65D 77/225)} . Locking of ammunition in transport containers
39/085 39/087 39/10 39/14 39/16 39/18 39/20	 . {for blank cartridges} . {Feed belts manufactured from fabric or plastics material} . Machines for charging or for extracting cartridges from feed belts . Explosion or fire protection arrangements on packages or ammunition (F42B 39/20) {and F42B 39/24} take precedence; {wall or panel structure of fireproof safes or storage containers E05G 1/024}) . Fire-extinguishing . Heat shields; Thermal insulation . Packages or ammunition having valves for pressure-equalising; Packages or ammunition having plugs for pressure release, e.g. meltable {; Blowout panels; Venting arrangements (ventilating arrangements on packages formed from foldable or erectable blanks B65D 5/4295; packages with pressure-relief valves incorporated in a container wall B65D 77/225)} . Locking of ammunition in transport containers . Shock-absorbing arrangements in packages {, e.g.
39/085 39/087 39/10 39/14 39/16 39/18 39/20	 . {for blank cartridges} . {Feed belts manufactured from fabric or plastics material} . Machines for charging or for extracting cartridges from feed belts . Explosion or fire protection arrangements on packages or ammunition (F42B 39/20) {and F42B 39/24} take precedence; {wall or panel structure of fireproof safes or storage containers E05G 1/024}) . Fire-extinguishing . Heat shields; Thermal insulation . Packages or ammunition having valves for pressure-equalising; Packages or ammunition having plugs for pressure release, e.g. meltable {; Blowout panels; Venting arrangements (ventilating arrangements on packages formed from foldable or erectable blanks B65D 5/4295; packages with pressure-relief valves incorporated in a container wall B65D 77/225)} . Locking of ammunition in transport containers . Shock-absorbing arrangements in packages {, e.g. for shock waves}
39/085 39/087 39/10 39/14 39/16 39/18 39/20 39/22 39/24	 . {for blank cartridges} . {Feed belts manufactured from fabric or plastics material} . Machines for charging or for extracting cartridges from feed belts . Explosion or fire protection arrangements on packages or ammunition (F42B 39/20) {and F42B 39/24} take precedence; {wall or panel structure of fireproof safes or storage containers E05G 1/024}) . Fire-extinguishing . Heat shields; Thermal insulation . Packages or ammunition having valves for pressure-equalising; Packages or ammunition having plugs for pressure release, e.g. meltable {; Blowout panels; Venting arrangements (ventilating arrangements on packages formed from foldable or erectable blanks B65D 5/4295; packages with pressure-relief valves incorporated in a container wall B65D 77/225)} . Locking of ammunition in transport containers . Shock-absorbing arrangements in packages {, e.g.
39/085 39/087 39/10 39/14 39/16 39/18 39/20 39/22 39/24	 . {for blank cartridges} . {Feed belts manufactured from fabric or plastics material} . Machines for charging or for extracting cartridges from feed belts . Explosion or fire protection arrangements on packages or ammunition (F42B 39/20 {and F42B 39/24} take precedence; {wall or panel structure of fireproof safes or storage containers E05G 1/024}) . Fire-extinguishing . Heat shields; Thermal insulation . Packages or ammunition having valves for pressure-equalising; Packages or ammunition having plugs for pressure release, e.g. meltable {; Blowout panels; Venting arrangements (ventilating arrangements on packages formed from foldable or erectable blanks B65D 5/4295; packages with pressure-relief valves incorporated in a container wall B65D 77/225)} . Locking of ammunition in transport containers . Shock-absorbing arrangements in packages {, e.g. for shock waves} . Packages or containers for a plurality of ammunition, e.g. cartridges (F42B 39/14 - F42B 39/24, F42B 39/28 take
39/085 39/087 39/10 39/14 39/16 39/18 39/20 39/22 39/24 39/26	 . {for blank cartridges} . {Feed belts manufactured from fabric or plastics material} . Machines for charging or for extracting cartridges from feed belts . Explosion or fire protection arrangements on packages or ammunition (F42B 39/20 {and F42B 39/24} take precedence; {wall or panel structure of fireproof safes or storage containers E05G 1/024}) . Fire-extinguishing . Heat shields; Thermal insulation . Packages or ammunition having valves for pressure-equalising; Packages or ammunition having plugs for pressure release, e.g. meltable {; Blowout panels; Venting arrangements (ventilating arrangements on packages formed from foldable or erectable blanks B65D 5/4295; packages with pressure-relief valves incorporated in a container wall B65D 77/225)} . Locking of ammunition in transport containers . Shock-absorbing arrangements in packages {, e.g. for shock waves} . Packages or containers for a plurality of ammunition, e.g. cartridges (F42B 39/14 - F42B 39/24, F42B 39/28 take precedence)
39/085 39/087 39/10 39/14 39/16 39/18 39/20 39/22 39/24 39/26	 . {for blank cartridges} . {Feed belts manufactured from fabric or plastics material} . Machines for charging or for extracting cartridges from feed belts . Explosion or fire protection arrangements on packages or ammunition (F42B 39/20) {and F42B 39/24} take precedence; {wall or panel structure of fireproof safes or storage containers E05G 1/024}) . Fire-extinguishing . Heat shields; Thermal insulation . Packages or ammunition having valves for pressure-equalising; Packages or ammunition having plugs for pressure release, e.g. meltable {; Blowout panels; Venting arrangements (ventilating arrangements on packages formed from foldable or erectable blanks B65D 5/4295; packages with pressure-relief valves incorporated in a container wall B65D 77/225)} . Locking of ammunition in transport containers . Shock-absorbing arrangements in packages {, e.g. for shock waves} . Packages or containers for a plurality of ammunition, e.g. cartridges (F42B 39/14 - F42B 39/24, F42B 39/28 take precedence) . Ammunition racks, e.g. in vehicles
39/085 39/087 39/10 39/14 39/16 39/18 39/20 39/22 39/24 39/26	 . {for blank cartridges} . {Feed belts manufactured from fabric or plastics material} . Machines for charging or for extracting cartridges from feed belts . Explosion or fire protection arrangements on packages or ammunition (F42B 39/20 {and F42B 39/24} take precedence; {wall or panel structure of fireproof safes or storage containers E05G 1/024}) . Fire-extinguishing . Heat shields; Thermal insulation . Packages or ammunition having valves for pressure-equalising; Packages or ammunition having plugs for pressure release, e.g. meltable {; Blowout panels; Venting arrangements (ventilating arrangements on packages formed from foldable or erectable blanks B65D 5/4295; packages with pressure-relief valves incorporated in a container wall B65D 77/225)} . Locking of ammunition in transport containers . Shock-absorbing arrangements in packages {, e.g. for shock waves} . Packages or containers for a plurality of ammunition, e.g. cartridges (F42B 39/14 - F42B 39/24, F42B 39/28 take precedence)

99/00 Subject matter not provided for in other groups of this subclass