

Symbol	Typ	Titel
<b>F</b>	<b>Sektion</b>	<b>SECTION F — MECHANICAL ENGINEERING; LIGHTING; HEATING; WEAPONS; BLASTING</b>
<b>F42</b>	<b>Klasse</b>	<b>AMMUNITION; BLASTING</b>
<b>F42B</b>	<b>Unterklasse</b>	<b>EXPLOSIVE CHARGES, e.g. FOR BLASTING; FIREWORKS; AMMUNITION (explosive compositions C06B; fuzes F42C; blasting F42D) [2, 5]</b>
<b>F42B 1/00</b>	<b>Hauptgruppe</b>	<b>Explosive charges characterised by form or shape but not dependent on shape of container</b>
F42B 1/02	1-Punkt Untergruppe	. Shaped or hollow charges (blasting cartridges with cavities in the charge F42B 3/08; oil-winning using shaped-charge perforators E21B 43/116)
F42B 1/024	2-Punkt Untergruppe	. . provided with embedded bodies of inert material [5]
F42B 1/028	2-Punkt Untergruppe	. . characterised by the form of the liner [5]
F42B 1/032	2-Punkt Untergruppe	. . characterised by the material of the liner [5]
F42B 1/036	2-Punkt Untergruppe	. . Manufacturing processes therefor [5]
F42B 1/04	1-Punkt Untergruppe	. Detonator charges not forming part of the fuze
<b>F42B 3/00</b>	<b>Hauptgruppe</b>	<b>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)</b>
F42B 3/02	1-Punkt Untergruppe	. adapted to be united into assemblies
F42B 3/04	1-Punkt Untergruppe	. for producing gas under pressure
F42B 3/06	2-Punkt Untergruppe	. . with re-utilisable case
F42B 3/08	1-Punkt Untergruppe	. with cavities in the charge, e.g. hollow-charge blasting cartridges
F42B 3/087	1-Punkt Untergruppe	. Flexible or deformable blasting cartridges, e.g. bags or hoses (loaded cartridge bags F42B 5/38) [5]
F42B 3/093	2-Punkt Untergruppe	. . in mat or tape form [5]
F42B 3/10	1-Punkt Untergruppe	. Initiators therefor (percussion fuzes F42C 7/00; percussion caps F42C 19/10; electric primers F42C 19/12)
F42B 3/103	2-Punkt Untergruppe	. . Mounting initiator heads in initiators; Sealing-plugs [5]
F42B 3/107	3-Punkt Untergruppe	. . . Sealing-plugs characterised by the material used [5]
F42B 3/11	2-Punkt Untergruppe	. . characterised by the material used, e.g. for initiator case or electric leads (F42B 3/107 takes precedence) [5]
F42B 3/113	2-Punkt Untergruppe	. . activated by optical means, e.g. laser, flashlight [5]
F42B 3/117	2-Punkt Untergruppe	. . activated by friction [5]
F42B 3/12	2-Punkt Untergruppe	. . Bridge initiators
F42B 3/13	3-Punkt Untergruppe	. . . with semiconductive bridge [5]
F42B 3/14	2-Punkt Untergruppe	. . Spark initiators
F42B 3/16	2-Punkt Untergruppe	. . Delay initiators
F42B 3/18	2-Punkt Untergruppe	. . Safety initiators resistant to premature firing by static electricity or stray currents
F42B 3/182	3-Punkt Untergruppe	. . . having shunting means [5]
F42B 3/185	3-Punkt Untergruppe	. . . having semiconductive sealing plugs [5]

Symbol	Typ	Titel
F42B 3/188	3-Punkt Untergruppe	. . . having radio-frequency filters [5]
F42B 3/192	2-Punkt Untergruppe	. . designed for neutralisation on contact with water [5]
F42B 3/195	2-Punkt Untergruppe	. . Manufacture [5]
F42B 3/198	3-Punkt Untergruppe	. . . of electric initiator heads [5]
F42B 3/22	1-Punkt Untergruppe	. Elements for controlling or guiding the detonation wave, e.g. tubes (using inert bodies embedded in shaped or hollow charges F42B 1/024) [5]
F42B 3/24	1-Punkt Untergruppe	. Cartridge closures or seals (top closures for shotgun ammunition cartridges F42B 7/12) [5]
F42B 3/26	1-Punkt Untergruppe	. Arrangements for mounting initiators; Accessories therefor, e.g. tools [5]
F42B 3/28	1-Punkt Untergruppe	. Cartridge cases characterised by the material used, e.g. coatings (for initiator cases F42B 3/11) [5]
<b>F42B 4/00</b>	<b>Hauptgruppe</b>	<b>Fireworks, i.e. pyrotechnic devices for amusement, display, illumination, or signal purposes ( signalling by explosives G08B; advertising by firework G09F 13/46) [2]</b>
F42B 4/02	1-Punkt Untergruppe	. in cartridge form, i.e. shell, propellant, and primer [2]
F42B 4/04	1-Punkt Untergruppe	. Firecrackers [2]
F42B 4/06	1-Punkt Untergruppe	. Aerial display rockets (rockets in general F42B 15/00) [2]
F42B 4/08	2-Punkt Untergruppe	. . characterised by having vanes, wings, parachutes, or balloons [2]
F42B 4/10	2-Punkt Untergruppe	. . characterised by having means to separate article or charge from casing without destroying casing [2]
F42B 4/12	3-Punkt Untergruppe	. . . Parachute or flare separation [2]
F42B 4/14	2-Punkt Untergruppe	. . characterised by having plural successively-ignited charges [2]
F42B 4/16	1-Punkt Untergruppe	. Hand-thrown impact-exploded noise makers (cap pistols F41C 3/06) [4]
F42B 4/18	1-Punkt Untergruppe	. Simulations, e.g. pine cone, house that is destroyed, warship, volcano [2]
F42B 4/20	1-Punkt Untergruppe	. characterised by having holder or support other than casing, e.g. whirler or spike support [2]
F42B 4/22	1-Punkt Untergruppe	. characterised by having means to separate an article or charge from casing without destroying casing (in aerial display rockets F42B 4/10) [2]
F42B 4/24	1-Punkt Untergruppe	. characterised by having plural successively-ignited charges (in aerial display rockets F42B 4/14) [2]
F42B 4/26	1-Punkt Untergruppe	. Flares; Torches [2]
F42B 4/28	2-Punkt Untergruppe	. . Parachute flares (F42B 4/12 takes precedence) [2]
F42B 4/30	1-Punkt Untergruppe	. Manufacture [2]
<b>F42B 5/00</b>	<b>Hauptgruppe</b>	<b>Cartridge ammunition, e.g. separately-loaded propellant charges (shotgun ammunition F42B 7/00; practice or training ammunition F42B 8/00; missiles therefor F42B 12/00, F42B 14/00, F42B 15/00)</b>
F42B 5/02	1-Punkt Untergruppe	. Cartridges, i.e. cases with propellant charge and missile
F42B 5/03	2-Punkt Untergruppe	. . containing more than one missile [4]
F42B 5/045	2-Punkt Untergruppe	. . of telescopic type (F42B 5/184 takes precedence) [5]
F42B 5/05	2-Punkt Untergruppe	. . for recoilless guns (recoilless guns using a counter-projectile to balance recoil F41A 1/10) [4]
F42B 5/067	2-Punkt Untergruppe	. . Mounting or locking missiles in cartridge cases (F42B 5/18 takes precedence) [5]
F42B 5/073	3-Punkt Untergruppe	. . . using an auxiliary locking element [5]

Symbol	Typ	Titel
F42B 5/08	2-Punkt Untergruppe	. . modified for electric ignition
F42B 5/10	2-Punkt Untergruppe	. . with self-propelled bullet
F42B 5/14	2-Punkt Untergruppe	. . for marking cattle
F42B 5/145	2-Punkt Untergruppe	. . for dispensing gases, vapours, powders, particles or chemically-reactive substances (from projectiles F42B 12/46, F42B 12/70) [5]
F42B 5/15	3-Punkt Untergruppe	. . . for creating a screening or decoy effect, e.g. using radar chaff or infra-red material (infra-red flares F42B 4/26) [5]
F42B 5/155	4-Punkt Untergruppe	. . . . Smoke-pot projectors, e.g. arranged on vehicles [5]
F42B 5/16	2-Punkt Untergruppe	. . characterised by composition or physical dimensions or form of propellant charge or powder (chemical composition C06B)
F42B 5/18	2-Punkt Untergruppe	. . Caseless ammunition; Cartridges having combustible cases [5]
F42B 5/184	3-Punkt Untergruppe	. . . telescopic [5]
F42B 5/188	3-Punkt Untergruppe	. . . Manufacturing processes therefor [5]
F42B 5/192	3-Punkt Untergruppe	. . . Cartridge cases characterised by the material used [5]
F42B 5/196	4-Punkt Untergruppe	. . . . Coatings [5]
F42B 5/24	2-Punkt Untergruppe	. . for cleaning; for cooling; for lubricating [5]
F42B 5/26	1-Punkt Untergruppe	. Cartridge cases (F42B 5/18 takes precedence)
F42B 5/28	2-Punkt Untergruppe	. . of metal
F42B 5/285	3-Punkt Untergruppe	. . . formed by assembling several elements [4]
F42B 5/29	4-Punkt Untergruppe	. . . . wound from sheets or strips [4]
F42B 5/295	3-Punkt Untergruppe	. . . coated [4]
F42B 5/297	4-Punkt Untergruppe	. . . . with plastics [5]
F42B 5/30	2-Punkt Untergruppe	. . of plastics
F42B 5/307	3-Punkt Untergruppe	. . . formed by assembling several elements [4]
F42B 5/313	4-Punkt Untergruppe	. . . . all elements made of plastics [4]
F42B 5/32	2-Punkt Untergruppe	. . for rim fire
F42B 5/34	2-Punkt Untergruppe	. . with provision for varying the length
F42B 5/36	2-Punkt Untergruppe	. . modified for housing an integral firing-cap
F42B 5/38	1-Punkt Untergruppe	. Separately-loaded propellant charges, e.g. cartridge bags [4]
<b>F42B 6/00</b>	<b>Hauptgruppe</b>	<b>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; throwing-darts A63B 65/02; projectiles or missiles incorporating springs as the projecting means F41B 7/02) [5]</b>
F42B 6/02	1-Punkt Untergruppe	. Arrows; Crossbow bolts; Harpoons for hand-held spring or air guns [5]
F42B 6/04	2-Punkt Untergruppe	. . Archery arrows (F42B 6/08, F41B 5/06 take precedence) [5]

Symbol	Typ	Titel
F42B 6/06	3-Punkt Untergruppe	. . . Tail ends, e.g. nocks, fletching [5]
F42B 6/08	2-Punkt Untergruppe	. . Arrow heads; Harpoon heads [5]
F42B 6/10	1-Punkt Untergruppe	. Air gun pellets [5]
<b>F42B 7/00</b>	<b>Hauptgruppe</b>	<b>Shotgun ammunition</b>
F42B 7/02	1-Punkt Untergruppe	. Cartridges, i.e. cases with propellant charge and missile
F42B 7/04	2-Punkt Untergruppe	. . of pellet type
F42B 7/06	2-Punkt Untergruppe	. . with cartridge case of plastics
F42B 7/08	2-Punkt Untergruppe	. . Wads therefor
F42B 7/10	2-Punkt Untergruppe	. . Ball or slug shotgun cartridges
F42B 7/12	2-Punkt Untergruppe	. . Cartridge top closures, i.e. for the missile side (closures for blasting cartridges F42B 3/24) [5]
<b>F42B 8/00</b>	<b>Hauptgruppe</b>	<b>Practice or training ammunition (range-reducing, destabilising or braking arrangements F42B 10/00; with signalling effect F42B 12/02; F42B 19/00 takes precedence) [4]</b>
F42B 8/02	1-Punkt Untergruppe	. Cartridges [5]
F42B 8/04	2-Punkt Untergruppe	. . Blank cartridges, i.e. primed cartridges without projectile but containing an explosive or combustible powder charge [5]
F42B 8/06	3-Punkt Untergruppe	. . . for cap-firing pistols [5]
F42B 8/08	2-Punkt Untergruppe	. . Dummy cartridges, i.e. inert cartridges containing neither primer nor explosive or combustible powder charge [5]
F42B 8/10	2-Punkt Untergruppe	. . with sub-calibre adaptor [5]
F42B 8/12	1-Punkt Untergruppe	. Projectiles or missiles (F42B 19/36 takes precedence) [5]
F42B 8/14	2-Punkt Untergruppe	. . disintegrating in flight or upon impact [5]
F42B 8/16	3-Punkt Untergruppe	. . . containing an inert filler in powder or granular form [5]
F42B 8/18	2-Punkt Untergruppe	. . Rifle grenades [5]
F42B 8/20	2-Punkt Untergruppe	. . Mortar grenades [5]
F42B 8/22	2-Punkt Untergruppe	. . Fall bombs [5]
F42B 8/24	2-Punkt Untergruppe	. . Rockets [5]
F42B 8/26	2-Punkt Untergruppe	. . Hand grenades [5]
F42B 8/28	1-Punkt Untergruppe	. Land or marine mines; Depth charges [5]
<b>F42B 10/00</b>	<b>Hauptgruppe</b>	<b>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; sub-calibre projectiles having sabots F42B 14/00) [5]</b>
F42B 10/02	1-Punkt Untergruppe	. Stabilising arrangements [5]
F42B 10/04	2-Punkt Untergruppe	. . using fixed fins (F42B 10/22 takes precedence) [5]
F42B 10/06	3-Punkt Untergruppe	. . . Tail fins [5]
F42B 10/08	4-Punkt Untergruppe	. . . . Flechette-type projectiles [5]

Symbol	Typ	Titel
F42B 10/10	4-Punkt Untergruppe	. . . the fins being formed in the barrel by deformation of the projectile body [5]
F42B 10/12	2-Punkt Untergruppe	. . using fins longitudinally-slidable with respect to the projectile or missile [5]
F42B 10/14	2-Punkt Untergruppe	. . using fins spread or deployed after launch, e.g. after leaving the barrel [5]
F42B 10/16	3-Punkt Untergruppe	. . . Wrap-around fins [5]
F42B 10/18	3-Punkt Untergruppe	. . . using a longitudinally slidable support member [5]
F42B 10/20	3-Punkt Untergruppe	. . . deployed by combustion gas pressure, or by pneumatic or hydraulic forces [5]
F42B 10/22	2-Punkt Untergruppe	. . Projectiles of cannellured type [5]
F42B 10/24	3-Punkt Untergruppe	. . . with inclined grooves [5]
F42B 10/26	2-Punkt Untergruppe	. . using spin (F42B 10/04, F42B 10/12, F42B 10/14, F42B 10/24, F42B 14/02 take precedence) [5]
F42B 10/28	3-Punkt Untergruppe	. . . induced by gas action [5]
F42B 10/30	4-Punkt Untergruppe	. . . using rocket motor nozzles [5]
F42B 10/32	1-Punkt Untergruppe	. Range-reducing or range-increasing arrangements; Fall-retarding means [5]
F42B 10/34	2-Punkt Untergruppe	. . Tubular projectiles [5]
F42B 10/36	3-Punkt Untergruppe	. . . Ring-foil projectiles [5]
F42B 10/38	2-Punkt Untergruppe	. . Range-increasing arrangements (F42B 10/34 takes precedence) [5]
F42B 10/40	3-Punkt Untergruppe	. . . with combustion of a slow-burning charge, e.g. fumers, base-bleed projectiles [5]
F42B 10/42	3-Punkt Untergruppe	. . . Streamlined projectiles [5]
F42B 10/44	4-Punkt Untergruppe	. . . Boat-tails specially adapted for drag reduction [5]
F42B 10/46	4-Punkt Untergruppe	. . . Streamlined nose cones; Windshields; Radomes [5]
F42B 10/48	2-Punkt Untergruppe	. . Range-reducing, destabilising or braking arrangements; Fall-retarding means (F42B 10/34 takes precedence) [5]
F42B 10/50	3-Punkt Untergruppe	. . . Brake flaps [5]
F42B 10/52	3-Punkt Untergruppe	. . . Nose cones [5]
F42B 10/54	3-Punkt Untergruppe	. . . Spin braking means [5]
F42B 10/56	3-Punkt Untergruppe	. . . of parachute type [5]
F42B 10/58	3-Punkt Untergruppe	. . . of rotochute type [5]
F42B 10/60	1-Punkt Untergruppe	. Steering arrangements (F42B 19/01 takes precedence) [5]
F42B 10/62	2-Punkt Untergruppe	. . Steering by movement of flight surfaces [5]
F42B 10/64	3-Punkt Untergruppe	. . . of fins [5]
F42B 10/66	2-Punkt Untergruppe	. . Steering by varying intensity or direction of thrust (thrust vector control of rocket engine plants F02K 9/80) [5]
<b>F42B 12/00</b>	<b>Hauptgruppe</b>	<b>Projectiles, missiles or mines characterised 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 F42B 15/00) [5]</b>

Symbol	Typ	Titel
F42B 12/02	1-Punkt Untergruppe	. characterised by the warhead or the intended effect [5]
F42B 12/04	2-Punkt Untergruppe	. . of armour-piercing type [5]
F42B 12/06	3-Punkt Untergruppe	. . . with hard or heavy core; Kinetic energy penetrators (F42B 12/16, F42B 12/74 take precedence) [5]
F42B 12/08	3-Punkt Untergruppe	. . . with armour-piercing caps; with armoured cupola [5]
F42B 12/10	3-Punkt Untergruppe	. . . with shaped or hollow charge (shaped or hollow charges <u>per se</u> F42B 1/02) [5]
F42B 12/12	4-Punkt Untergruppe	. . . . rotatably mounted with respect to missile housing [5]
F42B 12/14	4-Punkt Untergruppe	. . . . the symmetry axis of the hollow charge forming an angle with the longitudinal axis of the projectile [5]
F42B 12/16	4-Punkt Untergruppe	. . . . in combination with an additional projectile or charge, acting successively on the target [5]
F42B 12/18	5-Punkt Untergruppe	. . . . . Hollow charges in tandem arrangement [5]
F42B 12/20	2-Punkt Untergruppe	. . of high-explosive type (F42B 12/44 takes precedence) [5]
F42B 12/22	3-Punkt Untergruppe	. . . with fragmentation-hull construction [5]
F42B 12/24	4-Punkt Untergruppe	. . . . with grooves, recesses or other wall weakenings [5]
F42B 12/26	4-Punkt Untergruppe	. . . . the projectile wall being formed by a spirally-wound element [5]
F42B 12/28	4-Punkt Untergruppe	. . . . the projectile wall being built from annular elements [5]
F42B 12/30	4-Punkt Untergruppe	. . . . Continuous-rod warheads [5]
F42B 12/32	4-Punkt Untergruppe	. . . . the hull or case comprising a plurality of discrete bodies, e.g. steel balls, embedded therein [5]
F42B 12/34	2-Punkt Untergruppe	. . expanding before or on impact, i.e. of dum dum or mushroom type [5]
F42B 12/36	2-Punkt Untergruppe	. . for dispensing materials; for producing chemical or physical reaction; for signalling [5]
F42B 12/38	3-Punkt Untergruppe	. . . of tracer type [5]
F42B 12/40	3-Punkt Untergruppe	. . . of target-marking, i.e. impact-indicating, type (F42B 12/48 takes precedence) [5]
F42B 12/42	3-Punkt Untergruppe	. . . of illuminating type, e.g. carrying flares [5]
F42B 12/44	3-Punkt Untergruppe	. . . of incendiary type (F42B 12/46 takes precedence) [5]
F42B 12/46	3-Punkt Untergruppe	. . . for dispensing gases, vapours, powders or chemically-reactive substances (F42B 12/70 takes precedence) [5]
F42B 12/48	4-Punkt Untergruppe	. . . . smoke-producing [5]
F42B 12/50	4-Punkt Untergruppe	. . . . by dispersion [5]
F42B 12/52	5-Punkt Untergruppe	. . . . . Fuel-air explosive devices [5]
F42B 12/54	4-Punkt Untergruppe	. . . . by implantation, e.g. hypodermic projectiles [5]
F42B 12/56	3-Punkt Untergruppe	. . . for dispensing discrete solid bodies (F42B 12/70 takes precedence) [5]
F42B 12/58	4-Punkt Untergruppe	. . . . Cluster or cargo ammunition, i.e. projectiles containing one or more submissiles (F42B 12/32 takes precedence) [5]
F42B 12/60	5-Punkt Untergruppe	. . . . . the submissiles being ejected radially [5]
F42B 12/62	5-Punkt Untergruppe	. . . . . the submissiles being ejected parallel to the longitudinal axis of the projectile [5]

Symbol	Typ	Titel
F42B 12/64	6-Punkt Untergruppe	. . . . . the submissiles being of shot- or flechette-type [5]
F42B 12/66	5-Punkt Untergruppe	. . . . . Chain-shot, i.e. the submissiles being interconnected by chains or the like [5]
F42B 12/68	4-Punkt Untergruppe	. . . . Line-carrying missiles, e.g. for life-saving (harpoons F42B 30/14) [5]
F42B 12/70	4-Punkt Untergruppe	. . . . for dispensing radar chaff or infra-red material (radar-reflector targets, active targets transmitting infra-red radiation F41J 2/00; radar-reflecting surfaces H01Q 15/14) [5]
F42B 12/72	1-Punkt Untergruppe	. characterised by the material (heat treatment for explosive shells C21D 9/16) [5]
F42B 12/74	2-Punkt Untergruppe	. . of the core or solid body [5]
F42B 12/76	2-Punkt Untergruppe	. . of the casing [5]
F42B 12/78	3-Punkt Untergruppe	. . . of jackets for smallarm bullets [5]
F42B 12/80	3-Punkt Untergruppe	. . . Coatings [5]
F42B 12/82	4-Punkt Untergruppe	. . . . reduction friction [5]
<b>F42B 14/00</b>	<b>Hauptgruppe</b>	<b>Projectiles or missiles characterised by arrangements for guiding or sealing them inside barrels, or for lubricating or cleaning barrels [5]</b>
F42B 14/02	1-Punkt Untergruppe	. Driving bands; Rotating bands (F42B 14/04 takes precedence) [5]
F42B 14/04	1-Punkt Untergruppe	. Lubrication means in missiles (coatings for reducing friction F42B 12/82) [5]
F42B 14/06	1-Punkt Untergruppe	. Sub-calibre projectiles having sabots; Sabots therefor [5]
F42B 14/08	2-Punkt Untergruppe	. . Sabots filled with propulsive charges; Removing sabots by combustion of pyrotechnic elements or by propulsive-gas pressure (arrangements on barrels for removing sabots from projectiles F41A 21/46) [5]
<b>F42B 15/00</b>	<b>Hauptgruppe</b>	<b>Self-propelled projectiles or missiles, e.g. rockets; Guided missiles (F42B 10/00, F42B 12/00, F42B 14/00 take precedence; for practice or training F42B 8/12; rocket torpedoes F42B 17/00; marine torpedoes F42B 19/00; cosmonautic vehicles B64G; jet-propulsion plants F02K) [4]</b>
F42B 15/01	1-Punkt Untergruppe	. Arrangements thereon for guidance or control (aircraft flight control B64C; guidance systems other than those only installed aboard F41G 7/00, F41G 9/00; locating by use of radio or other waves G01S; flight control in general G05D 1/00; computing aspects G06) [5]
F42B 15/04	2-Punkt Untergruppe	. . using wire, e.g. for guiding ground-to-ground rockets
F42B 15/08	1-Punkt Untergruppe	. for carrying measuring instruments (adaptations for meteorology G01W 1/08)
F42B 15/10	1-Punkt Untergruppe	. Missiles having a trajectory only in the air
F42B 15/12	2-Punkt Untergruppe	. . Intercontinental ballistic missiles (F42B 15/01 takes precedence) [4]
F42B 15/20	1-Punkt Untergruppe	. Missiles having a trajectory beginning below water surface (having additional propulsion means for movement through water F42B 17/00)
F42B 15/22	1-Punkt Untergruppe	. Missiles having a trajectory finishing below water surface (having additional propulsion means for movement through water F42B 17/00)
F42B 15/34	1-Punkt Untergruppe	. Protection against overheating or radiation, e.g. heat shields; Additional cooling arrangements [5]
F42B 15/36	1-Punkt Untergruppe	. Means for interconnecting rocket-motor and body section; Multi-stage connectors; Disconnecting means [5]
F42B 15/38	2-Punkt Untergruppe	. . Ring-shaped explosive elements for the separation of rocket parts [5]
<b>F42B 17/00</b>	<b>Hauptgruppe</b>	<b>Rocket torpedoes, i.e. missiles provided with separate propulsion means for movement through air and through water (F42B 12/00 takes precedence)</b>
<b>F42B 19/00</b>	<b>Hauptgruppe</b>	<b>Marine torpedoes, e.g. launched by surface vessels or submarines (having additional propulsion means for movement through air F42B 17/00); Sea mines having self-propulsion means (F42B</b>

Symbol	Typ	Titel
		<b>12/00 takes precedence; launching means F41F; locating by use of radio or other waves G01S; automatic control of course G05D 1/00; firing directors or calculators G06G)</b>
F42B 19/01	1-Punkt Untergruppe	. Steering control
F42B 19/04	2-Punkt Untergruppe	. . Depth control
F42B 19/06	2-Punkt Untergruppe	. . Directional control
F42B 19/08	2-Punkt Untergruppe	. . with means for preventing rolling or pitching
F42B 19/10	2-Punkt Untergruppe	. . remotely controlled, e.g. by sonic or radio control (control systems using wire F41G 7/32)
F42B 19/12	1-Punkt Untergruppe	. Propulsion specially adapted for torpedoes (marine propulsion in general B63H)
F42B 19/14	2-Punkt Untergruppe	. . by compressed-gas motors
F42B 19/16	3-Punkt Untergruppe	. . . of cylinder type
F42B 19/18	3-Punkt Untergruppe	. . . of turbine type
F42B 19/20	3-Punkt Untergruppe	. . . characterised by the composition of propulsive gas; Manufacture or heating thereof in torpedoes
F42B 19/22	2-Punkt Untergruppe	. . by internal-combustion engines
F42B 19/24	2-Punkt Untergruppe	. . by electric motors
F42B 19/26	2-Punkt Untergruppe	. . by jet propulsion
F42B 19/28	2-Punkt Untergruppe	. . with means for avoiding visible wake
F42B 19/30	2-Punkt Untergruppe	. . with timing control of propulsion
F42B 19/36	1-Punkt Untergruppe	. adapted to be used for exercise purposes, e.g. indicating position or course
F42B 19/38	2-Punkt Untergruppe	. . with means for causing torpedoes to surface at end of run
F42B 19/40	3-Punkt Untergruppe	. . . by expelling liquid ballast
F42B 19/42	3-Punkt Untergruppe	. . . by releasing solid ballast
F42B 19/44	3-Punkt Untergruppe	. . . by enlarging displacement
F42B 19/46	1-Punkt Untergruppe	. adapted to be launched from aircraft
<b>F42B 21/00</b>	<b>Hauptgruppe</b>	<b>Depth charges (F42B 12/00 takes precedence; for practice or training F42B 8/28; laying aspects B63G)</b>
<b>F42B 22/00</b>	<b>Hauptgruppe</b>	<b>Marine mines, e.g. launched by surface vessels or submarines (F42B 12/00 takes precedence; for practice or training F42B 8/28; mine laying or sweeping B63G)</b>
F42B 22/02	1-Punkt Untergruppe	. Contact mines (contact fuzes F42C 7/02)
F42B 22/04	1-Punkt Untergruppe	. Influenced mines, e.g. by magnetic or acoustic effect
F42B 22/06	1-Punkt Untergruppe	. Ground mines
F42B 22/08	1-Punkt Untergruppe	. Drifting mines (with propulsion means F42B 19/00)
F42B 22/10	1-Punkt Untergruppe	. Moored mines
F42B 22/12	2-Punkt Untergruppe	. . at a fixed depth setting
F42B 22/14	2-Punkt Untergruppe	. . at a variable depth setting



Symbol	Typ	Titel
F42B 22/16	3-Punkt Untergruppe	. . . using mechanical means, e.g. plummet and float
F42B 22/18	3-Punkt Untergruppe	. . . using hydrostatic means
F42B 22/20	3-Punkt Untergruppe	. . . using magnetic or acoustic depth-control means
F42B 22/22	1-Punkt Untergruppe	. having self-contained sinking means
F42B 22/24	1-Punkt Untergruppe	. Arrangement of mines in fields or barriers (net barriers for harbour defence F41H 11/05)
F42B 22/42	1-Punkt Untergruppe	. with anti-sweeping means, e.g. electrical
F42B 22/44	1-Punkt Untergruppe	. adapted to be launched from aircraft
<b>F42B 23/00</b>	<b>Hauptgruppe</b>	<b>Land mines (F42B 12/00 takes precedence; for practice or training F42B 8/28)</b>
F42B 23/04	1-Punkt Untergruppe	. anti-vehicle [5]
F42B 23/08	2-Punkt Untergruppe	. . non-metallic [5]
F42B 23/10	1-Punkt Untergruppe	. anti-personnel [5]
F42B 23/14	2-Punkt Untergruppe	. . non-metallic [5]
F42B 23/16	2-Punkt Untergruppe	. . of missile type, i.e. for detonation after ejection from ground (fuzes for initiating mine ejection F42C 1/09) [5]
F42B 23/24	1-Punkt Untergruppe	. Details
<b>F42B 25/00</b>	<b>Hauptgruppe</b>	<b>Fall bombs (F42B 10/00, F42B 12/00 take precedence; for practice or training F42B 8/12) [5]</b>
<b>F42B 27/00</b>	<b>Hauptgruppe</b>	<b>Hand grenades (F42B 12/00 takes precedence; for practice or training F42B 8/12)</b>
F42B 27/08	1-Punkt Untergruppe	. with handle
<b>F42B 29/00</b>	<b>Hauptgruppe</b>	<b>Noiseless, smokeless, or flashless missiles launched by their own explosive propellant</b>
<b>F42B 30/00</b>	<b>Hauptgruppe</b>	<b>Projectiles or missiles, not otherwise provided for, characterised by the ammunition class or type, e.g. by the launching apparatus or weapon used (F42B 10/00, F42B 12/00, F42B 14/00 take precedence) [5]</b>
F42B 30/02	1-Punkt Untergruppe	. Bullets [5]
F42B 30/04	1-Punkt Untergruppe	. Rifle grenades [5]
F42B 30/06	2-Punkt Untergruppe	. . Bullet traps or bullet decelerators therefor [5]
F42B 30/08	1-Punkt Untergruppe	. Ordnance projectiles or missiles, e.g. shells [5]
F42B 30/10	2-Punkt Untergruppe	. . Mortar projectiles [5]
F42B 30/12	3-Punkt Untergruppe	. . . with provision for additional propulsive charges, or for varying the length [5]
F42B 30/14	1-Punkt Untergruppe	. Harpoons (for hand-held spring or air guns F42B 6/02) [5]
<b>F42B 33/00</b>	<b>Hauptgruppe</b>	<b>Manufacture of ammunition; Dismantling of ammunition; Apparatus therefor (F42B 5/188 takes precedence; manufacturing processes for hollow charges F42B 1/036; manufacturing of blasting cartridge initiators F42B 3/195)</b>
F42B 33/02	1-Punkt Untergruppe	. Filling cartridges, missiles, or fuzes; Inserting propellant or explosive charges
F42B 33/04	1-Punkt Untergruppe	. Fitting or extracting primers in or from fuzes or charges
F42B 33/06	1-Punkt Untergruppe	. Dismantling fuzes, cartridges, projectiles, missiles, rockets, or bombs (F42B 33/04 takes precedence)
F42B 33/10	1-Punkt Untergruppe	. Reconditioning used cartridge cases
F42B 33/12	1-Punkt Untergruppe	. Crimping shotgun cartridges

Symbol	Typ	Titel
F42B 33/14	1-Punkt Untergruppe	. Surface treatment of cartridges or cartridge cases
<b>F42B 35/00</b>	<b>Hauptgruppe</b>	<b>Testing or checking of ammunition</b>
F42B 35/02	1-Punkt Untergruppe	. Gauging, sorting, trimming or shortening cartridges or missiles
<b>F42B 39/00</b>	<b>Hauptgruppe</b>	<b>Packaging or storage of ammunition or explosive charges; Safety features thereof; Cartridge belts or bags</b>
F42B 39/02	1-Punkt Untergruppe	. Cartridge bags; Bandoleers
F42B 39/08	1-Punkt Untergruppe	. Cartridge belts
F42B 39/10	2-Punkt Untergruppe	. . Machines for charging or for extracting cartridges from feed belts
F42B 39/14	1-Punkt Untergruppe	. Explosion or fire protection arrangements on packages or ammunition (F42B 39/20 takes precedence) [5]
F42B 39/16	2-Punkt Untergruppe	. . Fire-extinguishing [5]
F42B 39/18	2-Punkt Untergruppe	. . Heat shields; Thermal insulation [5]
F42B 39/20	1-Punkt Untergruppe	. Packages or ammunition having valves for pressure-equalising; Packages or ammunition having plugs for pressure release, e.g. meltable [5]
F42B 39/22	1-Punkt Untergruppe	. Locking of ammunition in transport containers [5]
F42B 39/24	1-Punkt Untergruppe	. Shock-absorbing arrangements in packages [5]
F42B 39/26	1-Punkt Untergruppe	. Packages or containers for a plurality of ammunition, e.g. cartridges (F42B 39/14-F42B 39/24, F42B 39/28 take precedence) [5]
F42B 39/28	1-Punkt Untergruppe	. Ammunition racks, e.g. in vehicles [5]
F42B 39/30	1-Punkt Untergruppe	. Containers for detonators or fuzes (F42B 39/14, F42B 39/20 take precedence) [5]
<b>F42B 99/00</b>	<b>Hauptgruppe</b>	<b>Subject matter not provided for in other groups of this subclass [2006.01]</b>