

Symbol	Typ	Titel
F	Sektion	SECTION F — MECHANICAL ENGINEERING; LIGHTING; HEATING; WEAPONS; BLASTING
F41	Untersektion	WEAPONS; BLASTING
F41	Klasse	WEAPONS
F41A	Unterkategorie	FUNCTIONAL FEATURES OR DETAILS COMMON TO BOTH SMALLARMS AND ORDNANCE, e.g. CANNONS; MOUNTINGS FOR SMALLARMS OR ORDNANCE [5]
F41A 1/00	Hauptgruppe	Missile propulsion characterised by the use of explosive or combustible propellant charges (projecting missiles without use of explosive or combustible propellant charge F41B; launching rockets or torpedoes F41F 3/00; missile self-propulsion F42B 15/00) [5]
F41A 1/02	1-Punkt Untergruppe	. Hypervelocity missile propulsion using successive means for increasing the propulsive force, e.g. using successively initiated propellant charges arranged along the barrel length; Multistage missile propulsion [5]
F41A 1/04	1-Punkt Untergruppe	. Missile propulsion using the combustion of a liquid or gaseous fuel, e.g. hypergolic fuel [5]
F41A 1/06	1-Punkt Untergruppe	. Adjusting the range without varying elevation angle or propellant charge data, e.g. by venting a part of the propulsive charge gases, or by adjusting the capacity of the cartridge or combustion chamber [5]
F41A 1/08	1-Punkt Untergruppe	. Recoilless guns, i.e. guns having propulsion means producing no recoil [5]
F41A 1/10	2-Punkt Untergruppe	... a counter projectile being used to balance recoil [5]
F41A 3/00	Hauptgruppe	Breech mechanism, e.g. locks [5]
F41A 3/02	1-Punkt Untergruppe	. Block action, i.e. the main breech opening movement being transverse to the barrel axis [5]
F41A 3/04	2-Punkt Untergruppe	... with pivoting breech-block [5]
F41A 3/06	3-Punkt Untergruppe	... about a horizontal axis transverse to the barrel axis at the rear of the block (F41A 3/08 takes precedence) [5]
F41A 3/08	3-Punkt Untergruppe	... carrying a rotably mounted obturating plug of the screw-thread or the interrupted-thread type (F41A 3/30 takes precedence) [5]
F41A 3/10	2-Punkt Untergruppe	... with sliding breech-block, e.g. vertically [5]
F41A 3/12	1-Punkt Untergruppe	. Bolt action, i.e. the main breech opening movement being parallel to the barrel axis [5]
F41A 3/14	2-Punkt Untergruppe	... Rigid bolt locks, i.e. having locking elements rigidly mounted on the bolt or bolt handle and on the barrel or breech-housing respectively [5]
F41A 3/16	3-Punkt Untergruppe	... the locking elements effecting a rotary movement about the barrel axis, e.g. rotating cylinder bolt locks [5]
F41A 3/18	4-Punkt Untergruppe	.... hand-operated [5]
F41A 3/20	5-Punkt Untergruppe	..... Straight-pull operated bolt locks, i.e. the operating hand effecting only a straight movement parallel to the barrel axis [5]
F41A 3/22	5-Punkt Untergruppe	..... the locking being effected by rotating the operating handle or lever transversely to the barrel axis [5]
F41A 3/24	6-Punkt Untergruppe	..... the locking elements forming part of the operating handle or lever [5]
F41A 3/26	4-Punkt Untergruppe	.... semi-automatically or automatically operated, e.g. having a slideable bolt-carrier and a rotatable bolt [5]
F41A 3/28	5-Punkt Untergruppe	..... having fixed locking elements on the non-rotating bolt and rotating locking elements mounted on the barrel or breech housing, e.g. rotatable rings [5]
F41A 3/30	4-Punkt Untergruppe Interlocking means, e.g. locking lugs, screw threads [5]

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F41A 3/32	3-Punkt Untergruppe	... the bolt being rocked about a notional axis transverse to the barrel axis [5]
F41A 3/34	3-Punkt Untergruppe	... the bolt additionally effecting a sliding movement transverse to the barrel axis [5]
F41A 3/36	2-Punkt Untergruppe	... Semi-rigid bolt locks, i.e. having locking elements movably mounted on the bolt or on the barrel or breech housing [5]
F41A 3/38	3-Punkt Untergruppe	... having rocking locking elements, e.g. pivoting levers or vanes [5]
F41A 3/40	4-Punkt Untergruppe	.... mounted on the bolt (F41A 3/42 takes precedence) [5]
F41A 3/42	4-Punkt Untergruppe	.... hand-operated [5]
F41A 3/44	3-Punkt Untergruppe	... having sliding locking elements, e.g. balls, rollers [5]
F41A 3/46	4-Punkt Untergruppe	.... mounted on the bolt (F41A 3/48 takes precedence) [5]
F41A 3/48	4-Punkt Untergruppe	.... hand-operated [5]
F41A 3/50	3-Punkt Untergruppe	... Toggle-joint locks, e.g. crank-operated [5]
F41A 3/52	4-Punkt Untergruppe	.... hand-operated [5]
F41A 3/54	2-Punkt Untergruppe	... Bolt locks of the unlocked type, i.e. being inertia operated [5]
F41A 3/56	3-Punkt Untergruppe	... the bolt being provided with an additional slidable mass [5]
F41A 3/58	1-Punkt Untergruppe	. Breakdown breech mechanisms, e.g. for shotguns [5]
F41A 3/60	1-Punkt Untergruppe	. Breech mechanisms for guns having two or more barrels (F41A 3/58 takes precedence; for revolving-cannon guns F41F 1/10) [5]
F41A 3/62	1-Punkt Untergruppe	. using combustion gas pressure for adding to the mechanical locking action, or for delaying breech opening movement [5]
F41A 3/64	1-Punkt Untergruppe	. Mounting of breech-blocks; Accessories for breech-blocks or breech-block mountings [5]
F41A 3/66	2-Punkt Untergruppe	... Breech housings or frames; Receivers [5]
F41A 3/68	2-Punkt Untergruppe	... Bolt stops, i.e. means for limiting bolt opening movement [5]
F41A 3/70	2-Punkt Untergruppe	... Anti-rebound arrangements, i.e. preventing rebound of the bolt out of the firing position [5]
F41A 3/72	2-Punkt Untergruppe	... Operating handles or levers; Mounting thereof in breech-blocks or bolts [5]
F41A 3/74	2-Punkt Untergruppe	... Obturating or packing devices for gas leak prevention in breech mechanisms [5]
F41A 3/76	3-Punkt Untergruppe	... specially adapted for sealing the gap between the forward end of the cartridge chamber and the rearward end of the barrel, e.g. sealing devices for revolvers or revolver-type guns [5]
F41A 3/78	2-Punkt Untergruppe	... Bolt buffer or recuperator means [5]
F41A 3/80	3-Punkt Untergruppe	... Adjustable spring buffers [5]
F41A 3/82	3-Punkt Untergruppe	... Coil spring buffers (F41A 3/80 takes precedence) [5]
F41A 3/84	4-Punkt Untergruppe	.... mounted within the gun stock [5]
F41A 3/86	4-Punkt Untergruppe	.... mounted under the barrel [5]
F41A 3/88	4-Punkt Untergruppe mounted around the barrel [5]
F41A 3/90	3-Punkt Untergruppe	... Fluid buffers [5]

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F41A 3/92	4-Punkt Untergruppe adjustable [5]
F41A 3/94	4-Punkt Untergruppe in combination with spring buffers [5]
F41A 5/00	Hauptgruppe	Mechanisms or systems operated by propellant charge energy for automatically opening the lock [5]
F41A 5/02	1-Punkt Untergruppe	. recoil-operated [5]
F41A 5/04	2-Punkt Untergruppe	.. the barrel being tilted during recoil [5]
F41A 5/06	2-Punkt Untergruppe	.. the barrel being rotated about its longitudinal axis during recoil [5]
F41A 5/08	2-Punkt Untergruppe	.. having an accelerator lever acting on the breech-block or bolt during the opening movement [5]
F41A 5/10	2-Punkt Untergruppe	.. having a movable inertia weight [5]
F41A 5/12	3-Punkt Untergruppe	... mounted in a gun having a fixed barrel [5]
F41A 5/14	2-Punkt Untergruppe	.. Barrel stops, i.e. devices for holding the recoiling barrel in a predetermined position, e.g. the recoil position [5]
F41A 5/16	2-Punkt Untergruppe	.. having a barrel moving forwardly after the firing of a shot [5]
F41A 5/18	1-Punkt Untergruppe	. gas-operated [5]
F41A 5/20	2-Punkt Untergruppe	.. using a gas piston arranged concentrically around the barrel [5]
F41A 5/22	2-Punkt Untergruppe	.. having two or more gas pistons [5]
F41A 5/24	2-Punkt Untergruppe	.. by direct action of gas pressure on bolt or locking elements [5]
F41A 5/26	2-Punkt Untergruppe	.. Arrangements or systems for bleeding the gas from the barrel (F41A 5/20-F41A 5/24 take precedence) [5]
F41A 5/28	3-Punkt Untergruppe	... Adjustable systems [5]
F41A 5/30	1-Punkt Untergruppe	. Gas- or recoil-operation, e.g. selection of gas- or recoil-operated systems [5]
F41A 5/32	1-Punkt Untergruppe	. Energy accumulator systems, i.e. systems for opening the breech-block by energy accumulated during barrel or gas piston recoil [5]
F41A 5/34	2-Punkt Untergruppe	.. with spring accumulators [5]
F41A 5/36	2-Punkt Untergruppe	.. with fluid accumulators [5]
F41A 7/00	Hauptgruppe	Auxiliary mechanisms for bringing the breech-block or bolt or the barrel to the starting position before automatic firing (operating handles or levers F41A 3/00); Drives for externally-powered guns (revolving-cannon guns F41F 1/00); Remote-controlled gun chargers [5]
F41A 7/02	1-Punkt Untergruppe	. Machine-gun rechargers, e.g. manually operated [5]
F41A 7/04	2-Punkt Untergruppe	.. fluid operated [5]
F41A 7/06	2-Punkt Untergruppe	.. electrically operated [5]
F41A 7/08	1-Punkt Untergruppe	. Drives for externally-powered guns, i.e. drives for moving the breech-block or bolt by an external force during automatic firing [5]
F41A 7/10	2-Punkt Untergruppe	.. using a rotating cylindrical drum having a camming groove [5]
F41A 9/00	Hauptgruppe	Feeding or loading of ammunition (adaptations for feeding or loading missiles from magazines in air guns F41B 11/02); Magazines; Guiding means for the extracting of cartridges (cartridge extractors or ejectors F41A 15/00) [5]
F41A 9/01	1-Punkt Untergruppe	. Feeding of unbelted ammunition [5]

Symbol	Typ	Titel
F41A 9/02	2-Punkt Untergruppe	... using wheel conveyers, e.g. star-wheel-shaped conveyers [5]
F41A 9/03	2-Punkt Untergruppe	... using screw or rotary-spiral conveyers [5]
F41A 9/04	2-Punkt Untergruppe	... using endless-chain belts carrying a plurality of ammunition [5]
F41A 9/05	3-Punkt Untergruppe	... in tandem sequence [5]
F41A 9/06	2-Punkt Untergruppe	... using cyclically moving conveyers, i.e. conveyers having ammunition pusher or carrier elements which are emptied or disengaged from the ammunition during the return stroke [5]
F41A 9/07	3-Punkt Untergruppe	... Reciprocating conveyers, i.e. conveyers pushing a plurality of ammunition during the feeding stroke [5]
F41A 9/09	3-Punkt Untergruppe	... Movable ammunition carriers or loading trays, e.g. for feeding from magazines [5]
F41A 9/10	4-Punkt Untergruppe	.... pivoting or swinging [5]
F41A 9/11	5-Punkt Untergruppe	..... in a horizontal plane [5]
F41A 9/12	6-Punkt Untergruppe	..... mounted within a smallarm [5]
F41A 9/13	5-Punkt Untergruppe	..... in a vertical plane [5]
F41A 9/14	6-Punkt Untergruppe	..... transverse to the barrel axis [5]
F41A 9/15	7-Punkt Untergruppe	..... mounted within a smallarm [5]
F41A 9/16	6-Punkt Untergruppe	..... parallel to the barrel axis [5]
F41A 9/17	7-Punkt Untergruppe	..... mounted within a smallarm [5]
F41A 9/18	8-Punkt Untergruppe	..... feeding from a magazine under the barrel [5]
F41A 9/19	8-Punkt Untergruppe	..... feeding from a magazine mounted in the stock [5]
F41A 9/20	4-Punkt Untergruppe	.... sliding, e.g. reciprocating [5]
F41A 9/21	5-Punkt Untergruppe	.... in a vertical direction (F41A 9/23 takes precedence) [5]
F41A 9/22	5-Punkt Untergruppe	.... in a horizontal direction (F41A 9/23 takes precedence) [5]
F41A 9/23	5-Punkt Untergruppe	.... mounted within a smallarm [5]
F41A 9/24	2-Punkt Untergruppe	.. using a movable magazine or clip as feeding element [5]
F41A 9/25	3-Punkt Untergruppe	... using a sliding clip [5]
F41A 9/26	3-Punkt Untergruppe	... using a revolving drum magazine [5]
F41A 9/27	4-Punkt Untergruppe	.... in revolver-type guns [5]
F41A 9/28	5-Punkt Untergruppe	.... of smallarm type (in revolvers F41C 3/14) [5]
F41A 9/29	1-Punkt Untergruppe	. Feeding of belted ammunition [5]
F41A 9/30	2-Punkt Untergruppe	.. Sprocket-type belt transporters [5]
F41A 9/31	3-Punkt Untergruppe	... with cartridge stripping means [5]
F41A 9/32	2-Punkt Untergruppe	.. Reciprocating-slide-type belt transporters [5]
F41A 9/33	3-Punkt Untergruppe	... with cartridge stripping means [5]

Symbol	Typ	Titel
F41A 9/34	2-Punkt Untergruppe	... from magazines (magazines for belted ammunition <u>per se</u> F41A 9/79) [5]
F41A 9/35	1-Punkt Untergruppe	. Feeding multibarrel guns [5]
F41A 9/36	2-Punkt Untergruppe	... Feed mechanisms for revolving-cannon guns [5]
F41A 9/37	1-Punkt Untergruppe	. Feeding two or more kinds of ammunition to the same gun; Feeding from two sides [5]
F41A 9/38	1-Punkt Untergruppe	. Loading arrangements, i.e. for bringing the ammunition into the firing position [5]
F41A 9/39	2-Punkt Untergruppe	... Ramming arrangements [5]
F41A 9/40	3-Punkt Untergruppe	... the breech-block itself being the rammer [5]
F41A 9/41	4-Punkt Untergruppe	.... pushing unbelted ammunition from a box magazine on the gun frame into the cartridge chamber [5]
F41A 9/42	3-Punkt Untergruppe	... Rammers separate from breech-block [5]
F41A 9/43	4-Punkt Untergruppe	.... Chain rammers [5]
F41A 9/44	4-Punkt Untergruppe	.... Fluid-operated piston rammers [5]
F41A 9/45	2-Punkt Untergruppe	... the cartridge chamber or the barrel as a whole being tiltable between a loading and a firing position [5]
F41A 9/46	2-Punkt Untergruppe	... the cartridge chamber being formed by two complementary elements, movable one relative to the other for loading [5]
F41A 9/47	2-Punkt Untergruppe	... using forwardly-sliding barrels or barrel parts for loading [5]
F41A 9/48	2-Punkt Untergruppe	... by gravitational force [5]
F41A 9/49	1-Punkt Untergruppe	. Internally-powered drives, i.e. operated by propellant charge energy, e.g. couplings, clutches, energy accumulators [5]
F41A 9/50	1-Punkt Untergruppe	. External power or control systems [5]
F41A 9/51	2-Punkt Untergruppe	... Boosters, i.e. externally-powered motors [5]
F41A 9/52	1-Punkt Untergruppe	. Arrangements for changing from automatic or magazine-loading to hand-loading [5]
F41A 9/53	1-Punkt Untergruppe	. Charged-condition indicators, i.e. indicating the presence of a cartridge in the cartridge chamber [5]
F41A 9/54	1-Punkt Untergruppe	. Cartridge guides, stops or positioners, e.g. for cartridge extraction [5]
F41A 9/55	2-Punkt Untergruppe	... Fixed guiding means, mounted on, or near, the cartridge chamber [5]
F41A 9/56	2-Punkt Untergruppe	... Movable guiding means [5]
F41A 9/57	3-Punkt Untergruppe	... Flexible chutes, e.g. for guiding belted ammunition from the magazine to the gun [5]
F41A 9/58	2-Punkt Untergruppe	... Cartridge stops; Cartridge positioners [5]
F41A 9/59	1-Punkt Untergruppe	. Ejectors for clips or magazines, e.g. when empty [5]
F41A 9/60	1-Punkt Untergruppe	. Empty-cartridge-case or belt-link collectors or catchers (F41A 9/81 takes precedence) [5]
F41A 9/61	1-Punkt Untergruppe	. Magazines [5]
F41A 9/62	2-Punkt Untergruppe	... having means for indicating the number of cartridges left in the magazine, e.g. last-round indicators (last-round safeties F41A 17/40) [5]
F41A 9/63	2-Punkt Untergruppe	... specially adapted for releasable connection with other magazines [5]

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F41A 9/64	2-Punkt Untergruppe	... for unbelted ammunition [5]
F41A 9/65	3-Punkt Untergruppe	... Box magazines having a cartridge follower [5]
F41A 9/66	4-Punkt Untergruppe	.... Arrangements thereon for charging, i.e. reloading (apparatus or tools for reloading magazines F41A 9/83) [5]
F41A 9/67	5-Punkt Untergruppe	..... having means for depressing the cartridge follower, or for locking it in a depressed position [5]
F41A 9/68	4-Punkt Untergruppe	.... Plural magazines, e.g. tandem magazines [5]
F41A 9/69	4-Punkt Untergruppe	.... characterised by multiple-row or zigzag arrangement of cartridges [5]
F41A 9/70	4-Punkt Untergruppe	.... Arrangements thereon for discharging, e.g. cartridge followers or discharge throats [5]
F41A 9/71	4-Punkt Untergruppe	.... Arrangements thereon for varying capacity; Adapters or inserts for changing cartridge size or type [5]
F41A 9/72	3-Punkt Untergruppe	... Tubular magazines, i.e. magazines containing the ammunition in lengthwise tandem sequence [5]
F41A 9/73	3-Punkt Untergruppe	... Drum magazines [5]
F41A 9/74	4-Punkt Untergruppe	.... with radially disposed cartridges [5]
F41A 9/75	4-Punkt Untergruppe	.... having a spiral cartridge channel [5]
F41A 9/76	3-Punkt Untergruppe	... Magazines having an endless-chain conveyer [5]
F41A 9/77	3-Punkt Untergruppe	... Magazines having a screw conveyer [5]
F41A 9/78	3-Punkt Untergruppe	... Magazines having a reciprocating conveyer [5]
F41A 9/79	2-Punkt Untergruppe	... for belted ammunition [5]
F41A 9/80	3-Punkt Untergruppe	... having provision for quick-coupling of the belts of adjacent magazines [5]
F41A 9/81	3-Punkt Untergruppe	... having provision for collecting belt links or empty cartridge cases [5]
F41A 9/82	1-Punkt Untergruppe	. Reloading of magazines [5]
F41A 9/83	2-Punkt Untergruppe	... Apparatus or tools for reloading magazines with unbelted ammunition, e.g. cartridge clips [5]
F41A 9/84	3-Punkt Untergruppe	... Clips [5]
F41A 9/85	4-Punkt Untergruppe	.... for reloading revolver-type magazines [5]
F41A 9/86	2-Punkt Untergruppe	... Feeding belted ammunition into magazines [5]
F41A 9/87	1-Punkt Untergruppe	. Ammunition handling dollies or transfer carts (F41A 9/86 takes precedence) [5]
F41A 11/00	Hauptgruppe	Assembly or disassembly features; Modular concepts; Articulated or collapsible guns (F41A 3/64, F41A 19/10-F41A 19/15, F41A 21/48, F41A 25/26 take precedence) [5]
F41A 11/02	1-Punkt Untergruppe	. Modular concepts, e.g. weapon-family concepts [5]
F41A 11/04	1-Punkt Untergruppe	. Articulated or collapsible guns, i.e. with hinged or telescopic parts for transport or storage (breakdown shotguns or rifles F41C 7/11; folding or telescopic stocks or stock parts F41C 23/04) [5]
F41A 11/06	2-Punkt Untergruppe	... Telescopic guns [5]
F41A 13/00	Hauptgruppe	Cooling or heating systems (barrels or gun tubes with fins or ribs F41A 21/00); Blowing-through of gun barrels; Ventilating systems [5]
F41A 13/02	1-Punkt Untergruppe	. Heating systems [5]
F41A 13/04	1-Punkt Untergruppe	. Injecting fluids into barrels or cartridge chambers (F41A 13/08 takes precedence) [5]

Symbol	Typ	Titel
F41A 13/06	1-Punkt Untergruppe	. Evacuating combustion gas from barrels (F41A 13/10 takes precedence) [5]
F41A 13/08	2-Punkt Untergruppe	.. Bore evacuators, i.e. chambers disposed around barrels for storing part of the combustion gas and subsequently injecting it into the barrel to provide suction [5]
F41A 13/10	1-Punkt Untergruppe	. Blowers or turbines for evacuating or cooling guns, e.g. driven by combustion gas pressure or recoil [5]
F41A 13/12	1-Punkt Untergruppe	. Systems for cooling the outer surface of the barrel (F41A 13/10 takes precedence) [5]
F41A 15/00	Hauptgruppe	Cartridge extractors, i.e. devices for pulling cartridges or cartridge cases at least partially out of the cartridge chamber; Cartridge ejectors, i.e. devices for throwing the extracted cartridges or cartridge cases free of the gun (F41A 9/54 takes precedence) [5]
F41A 15/02	1-Punkt Untergruppe	. for revolver-type guns, e.g. revolvers [5]
F41A 15/04	1-Punkt Untergruppe	. specially adapted for cartridge cases being deformed when fired, e.g. of plastics [5]
F41A 15/06	1-Punkt Untergruppe	. for breakdown guns [5]
F41A 15/08	1-Punkt Untergruppe	. for block-action guns [5]
F41A 15/10	2-Punkt Untergruppe	.. of sliding-block type [5]
F41A 15/12	1-Punkt Untergruppe	. for bolt-action guns [5]
F41A 15/14	2-Punkt Untergruppe	.. the ejector being mounted on, or within, the bolt [5]
F41A 15/16	2-Punkt Untergruppe	.. the ejector being mounted on the breech housing or frame [5]
F41A 15/18	1-Punkt Untergruppe	. for guns with forwardly slidable barrels [5]
F41A 15/20	1-Punkt Untergruppe	. specially adapted for caseless-ammunition duds [5]
F41A 15/22	1-Punkt Untergruppe	. Tools for extracting cartridges [5]
F41A 17/00	Hauptgruppe	Safety arrangements, e.g. safeties [5]
F41A 17/02	1-Punkt Untergruppe	. Key-operated safeties [5]
F41A 17/04	1-Punkt Untergruppe	. Safeties of the combination-lock type (F41A 17/02 takes precedence) [5]
F41A 17/06	1-Punkt Untergruppe	. Electric or electromechanical safeties (F41A 17/04, F41A 17/08 take precedence) [5]
F41A 17/08	1-Punkt Untergruppe	. for inhibiting firing in a specified direction, e.g. at a friendly person or at a protected area (F41A 27/02 takes precedence) [5]
F41A 17/10	2-Punkt Untergruppe	.. Firing mechanisms with elevation stop [5]
F41A 17/12	2-Punkt Untergruppe	.. Firing mechanisms with anti-canting safety [5]
F41A 17/14	1-Punkt Untergruppe	. Double-loading prevention [5]
F41A 17/16	1-Punkt Untergruppe	. Cook-off prevention, i.e. prevention of spontaneous firing of a cartridge by chamber wall heat [5]
F41A 17/18	1-Punkt Untergruppe	. Hang-fire prevention [5]
F41A 17/20	1-Punkt Untergruppe	. Grip or stock safeties, i.e. safeties disengaged by clasping the grip or stock (thumb-operated sliding safeties F41A 17/52, F41A 17/62, F41A 17/70, F41A 17/80) [5]
F41A 17/22	2-Punkt Untergruppe	.. acting on the trigger [5]
F41A 17/24	2-Punkt Untergruppe	.. acting on the firing pin [5]
F41A 17/26	2-Punkt Untergruppe	.. acting on the hammer [5]

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F41A 17/28	2-Punkt Untergruppe	... acting on the sear [5]
F41A 17/30	1-Punkt Untergruppe	. Multiple safeties, i.e. safeties acting on at least one element of the firing mechanism and at least one other element of the gun, e.g. the moving barrel [5]
F41A 17/32	2-Punkt Untergruppe	... the other element being the breech-block or bolt [5]
F41A 17/34	1-Punkt Untergruppe	. Magazine safeties [5]
F41A 17/36	2-Punkt Untergruppe	... locking the gun in a safety condition when the magazine is empty or removed [5]
F41A 17/38	2-Punkt Untergruppe	... locking the magazine in the gun [5]
F41A 17/40	1-Punkt Untergruppe	. Last-round safeties (F41A 17/34 takes precedence) [5]
F41A 17/42	1-Punkt Untergruppe	. Safeties for locking the breech-block or bolt in a safety position (F41A 17/32, F41A 17/36, F41A 17/40 take precedence) [5]
F41A 17/44	1-Punkt Untergruppe	. Safety plugs, e.g. for plugging-up cartridge chambers [5]
F41A 17/46	1-Punkt Untergruppe	. Trigger safeties, i.e. means for preventing trigger movement (F41A 17/02-F41A 17/40 take precedence) [5]
F41A 17/48	2-Punkt Untergruppe	... Automatically operated trigger safeties, i.e. operated by breech opening or closing movement [5]
F41A 17/50	3-Punkt Untergruppe	... by breakdown action [5]
F41A 17/52	2-Punkt Untergruppe	... Thumb-operated sliding safeties mounted on the upside of the stock, e.g. for shotguns [5]
F41A 17/54	2-Punkt Untergruppe	... Protecting-caps for trigger guards; Trigger locking pieces mounted on, or within, the trigger guard [5]
F41A 17/56	1-Punkt Untergruppe	. Sear safeties, i.e. means for rendering ineffective an intermediate lever transmitting trigger movement to firing pin, hammer, bolt or sear (F41A 17/02-F41A 17/40 take precedence) [5]
F41A 17/58	2-Punkt Untergruppe	... automatically operated, i.e. operated by breech opening or closing movement [5]
F41A 17/60	3-Punkt Untergruppe	... by breakdown action [5]
F41A 17/62	2-Punkt Untergruppe	... Thumb-operated sliding safeties mounted on the upside of the stock, e.g. for shotguns [5]
F41A 17/64	1-Punkt Untergruppe	. Firing-pin safeties, i.e. means for preventing movement of slidably-mounted strikers (F41A 17/02-F41A 17/40 take precedence) [5]
F41A 17/66	2-Punkt Untergruppe	... automatically operated, i.e. operated by breech opening or closing movement [5]
F41A 17/68	3-Punkt Untergruppe	... by breakdown action [5]
F41A 17/70	2-Punkt Untergruppe	... Thumb-operated sliding safeties mounted on the upside of the stock, e.g. for shotguns [5]
F41A 17/72	2-Punkt Untergruppe	... trigger-operated, i.e. the movement of the trigger bringing a firing-pin safety into inoperative position during the firing [5]
F41A 17/74	1-Punkt Untergruppe	. Hammer safeties, i.e. for preventing the hammer from hitting the cartridge or the firing pin (F41A 17/02-F41A 17/40 take precedence) [5]
F41A 17/76	2-Punkt Untergruppe	... automatically operated, i.e. operated by breech opening or closing movement [5]
F41A 17/78	3-Punkt Untergruppe	... by breakdown action [5]
F41A 17/80	2-Punkt Untergruppe	... Thumb-operated sliding safeties mounted on the upside of the stock, e.g. for shotguns [5]
F41A 17/82	2-Punkt Untergruppe	... trigger-operated, i.e. the movement of the trigger bringing a hammer safety into inoperative position during firing [5]
F41A 19/00	Hauptgruppe	Firing or trigger mechanisms; Cocking mechanisms [5]

Symbol	Typ	Titel
F41A 19/01	1-Punkt Untergruppe	. Counting means indicating the number of shots fired [5]
F41A 19/02	2-Punkt Untergruppe	... Burst limiters (F41A 19/67 takes precedence) [5]
F41A 19/03	1-Punkt Untergruppe	. Shot-velocity control (F41A 3/78, F41A 5/28, F41A 19/05, F41A 19/66 take precedence) [5]
F41A 19/04	2-Punkt Untergruppe	... by regulating the time of release of the firing pin or hammer [5]
F41A 19/05	1-Punkt Untergruppe	. Synchronising for firing through the propeller of an aircraft [5]
F41A 19/06	1-Punkt Untergruppe	. Mechanical firing mechanisms (F41A 19/01-F41A 19/05, F41A 19/59 take precedence) [5]
F41A 19/07	2-Punkt Untergruppe	... press-button actuated, e.g. with thumb rest [5]
F41A 19/08	2-Punkt Untergruppe	... remote actuated; lanyard actuated [5]
F41A 19/09	2-Punkt Untergruppe	... Auxiliary trigger devices (F41A 19/08 takes precedence) [5]
F41A 19/10	2-Punkt Untergruppe	... Triggers; Trigger mountings [5]
F41A 19/11	2-Punkt Untergruppe	... Trigger guards; Trigger-guard mountings (F41A 19/15 takes precedence) [5]
F41A 19/12	2-Punkt Untergruppe	... Sears; Sear mountings [5]
F41A 19/13	2-Punkt Untergruppe	... Percussion or firing pins, i.e. fixed or slidably-mounted striker elements; Mountings therefor [5]
F41A 19/14	2-Punkt Untergruppe	... Hammers, i.e. pivotably-mounted striker elements; Hammer mountings [5]
F41A 19/15	2-Punkt Untergruppe	... Modular firing mechanism units [5]
F41A 19/16	2-Punkt Untergruppe	... Adjustable firing mechanisms; Trigger mechanisms with adjustable trigger pull (F41A 19/17 takes precedence) [5]
F41A 19/17	2-Punkt Untergruppe	... Hair-trigger mechanisms [5]
F41A 19/18	2-Punkt Untergruppe	... for multibarrel guns (F41A 19/68 takes precedence) [5]
F41A 19/19	3-Punkt Untergruppe	... with single-trigger firing possibility [5]
F41A 19/20	4-Punkt Untergruppe	.... Double-trigger arrangements having the possibility of single-trigger actuation [5]
F41A 19/21	4-Punkt Untergruppe	.... having only one trigger [5]
F41A 19/22	5-Punkt Untergruppe	..... and only one striker element [5]
F41A 19/23	6-Punkt Untergruppe	..... rotatable about an axis parallel to the barrel axis for firing subsequent barrels [5]
F41A 19/24	2-Punkt Untergruppe	... Release-trigger mechanisms, i.e. the striker element being released during the return movement of the trigger subsequent to trigger pull [5]
F41A 19/25	2-Punkt Untergruppe	... having only slidably-mounted striker elements, i.e. percussion or firing pins [5]
F41A 19/26	3-Punkt Untergruppe	... the percussion or firing pin and the breech-block or bolt forming one piece [5]
F41A 19/27	3-Punkt Untergruppe	... the percussion or firing pin being movable relative to the breech-block [5]
F41A 19/28	4-Punkt Untergruppe	.... propelled by a cam or lever when the breech-block or bolt arrives at a closing position [5]
F41A 19/29	4-Punkt Untergruppe	.... propelled by a spring under tension [5]
F41A 19/30	5-Punkt Untergruppe	..... in bolt-action guns [5]
F41A 19/31	6-Punkt Untergruppe	..... Sear arrangements therefor (F41A 19/33 takes precedence) [5]

Symbol	Typ	Titel
F41A 19/32	7-Punkt Untergruppe	..... for catching the percussion or firing pin after each shot, i.e. in single-shot or semi-automatic firing mode [5]
F41A 19/33	6-Punkt Untergruppe	..... Arrangements for the selection of automatic or semi-automatic fire [5]
F41A 19/34	6-Punkt Untergruppe	..... Cocking mechanisms [5]
F41A 19/35	7-Punkt Untergruppe	..... Double-action mechanisms, i.e. the cocking being effected during the first part of the trigger pull movement [5]
F41A 19/36	5-Punkt Untergruppe	..... in block-action guns [5]
F41A 19/37	6-Punkt Untergruppe	..... Cocking mechanisms [5]
F41A 19/38	7-Punkt Untergruppe	..... Double-action mechanisms, i.e. the cocking being effected during the first part of the trigger pull movement [5]
F41A 19/39	5-Punkt Untergruppe	..... Cocking mechanisms for other types of guns, e.g. fixed breech-block types, forwardly-slidable barrel types [5]
F41A 19/40	6-Punkt Untergruppe	..... Double-action mechanisms, i.e. the cocking being effected during the first part of the trigger pull movement [5]
F41A 19/41	6-Punkt Untergruppe	..... for breakdown guns [5]
F41A 19/42	2-Punkt Untergruppe	... having at least one hammer [5]
F41A 19/43	3-Punkt Untergruppe	... in bolt-action guns [5]
F41A 19/44	4-Punkt Untergruppe	.... Sear arrangements therefor (F41A 19/46 takes precedence) [5]
F41A 19/45	5-Punkt Untergruppe	..... for catching the hammer after each shot, i.e. in single-shot or semi-automatic firing mode [5]
F41A 19/46	4-Punkt Untergruppe	.... Arrangements for the selection of automatic or semi-automatic fire [5]
F41A 19/47	4-Punkt Untergruppe	.... Cocking mechanisms [5]
F41A 19/48	5-Punkt Untergruppe	.... Double-action mechanisms, i.e. the cocking being effected during the first part of the trigger pull movement [5]
F41A 19/49	3-Punkt Untergruppe	... in block-action guns [5]
F41A 19/50	4-Punkt Untergruppe	.... Cocking mechanisms [5]
F41A 19/51	5-Punkt Untergruppe	.... Double-action mechanisms, i.e. the cocking being effected during the first part of the trigger pull movement [5]
F41A 19/52	3-Punkt Untergruppe	... Cocking mechanisms for other types of guns, e.g. fixed breech-block types, revolvers [5]
F41A 19/53	4-Punkt Untergruppe	.... Double-action mechanisms, i.e. the cocking being effected during the first part of the trigger pull movement [5]
F41A 19/54	4-Punkt Untergruppe	.... for breakdown guns [5]
F41A 19/55	1-Punkt Untergruppe	. Fluid-operated firing mechanisms [5]
F41A 19/56	2-Punkt Untergruppe	.. Ignition of the propellant charge by contact with air heated by adiabatic compression [5]
F41A 19/57	1-Punkt Untergruppe	. Firing mechanisms operating with primer cartridge [5]
F41A 19/58	1-Punkt Untergruppe	. Electric firing mechanisms (F41A 17/10, F41A 17/12 take precedence) [5]
F41A 19/59	2-Punkt Untergruppe	.. Electromechanical firing mechanisms, i.e. the mechanical striker element being propelled or released by electric means [5]

Symbol	Typ	Titel
F41A 19/60	2-Punkt Untergruppe	... characterised by the means for generating electric energy [5]
F41A 19/61	3-Punkt Untergruppe	... Inductive generators [5]
F41A 19/62	3-Punkt Untergruppe	... Piezo-electric generators [5]
F41A 19/63	2-Punkt Untergruppe	... having means for contactless transmission of electric energy, e.g. by induction, by sparking gap [5]
F41A 19/64	2-Punkt Untergruppe	... for automatic or burst-firing mode [5]
F41A 19/65	3-Punkt Untergruppe	... for giving ripple fire, i.e. using electric sequencer switches for timed multiple-charge launching, e.g. for rocket launchers [5]
F41A 19/66	3-Punkt Untergruppe	... Electronic shot-velocity control (F41A 19/65 takes precedence) [5]
F41A 19/67	3-Punkt Untergruppe	... Burst limiters [5]
F41A 19/68	2-Punkt Untergruppe	... for multibarrel guns (F41A 19/65 takes precedence) [5]
F41A 19/69	2-Punkt Untergruppe	... Electric contacts or switches peculiar thereto (F41A 19/65 takes precedence) [5]
F41A 19/70	3-Punkt Untergruppe	... Electric firing pins; Mountings therefor [5]
F41A 21/00	Hauptgruppe	Barrels; Gun tubes; Muzzle attachments; Barrel mounting means (F41A 25/00 takes precedence; barrel attachments for firing grenades or riot-control ammunition from smallarms F41C 27/06; sighting devices F41G 1/00) [5]
F41A 21/02	1-Punkt Untergruppe	. Composite barrels, i.e. barrels having multiple layers, e.g. of different materials [5]
F41A 21/04	2-Punkt Untergruppe	... Barrel liners [5]
F41A 21/06	1-Punkt Untergruppe	. Plural barrels [5]
F41A 21/08	2-Punkt Untergruppe	... Barrel junctions [5]
F41A 21/10	1-Punkt Untergruppe	. Insert barrels, i.e. barrels for firing reduced calibre ammunition and being mounted within the normal barrels [5]
F41A 21/12	1-Punkt Untergruppe	. Cartridge chambers; Chamber liners (F41A 3/74, F41A 9/46, F41A 21/04 take precedence) [5]
F41A 21/14	2-Punkt Untergruppe	... Arrangement of cartridge chambers lateral to the barrel axis [5]
F41A 21/16	1-Punkt Untergruppe	. Barrels or gun tubes characterised by the shape of the bore [5]
F41A 21/18	2-Punkt Untergruppe	... Grooves; Rifling [5]
F41A 21/20	1-Punkt Untergruppe	. Barrels or gun tubes characterised by the material (F41A 21/02 takes precedence) [5]
F41A 21/22	1-Punkt Untergruppe	. Barrels which have undergone surface treatment, e.g. phosphating [5]
F41A 21/24	1-Punkt Untergruppe	. Barrels or gun tubes with fins or ribs, e.g. for cooling [5]
F41A 21/26	1-Punkt Untergruppe	. specially adapted for recoil reinforcement, e.g. for training purposes [5]
F41A 21/28	1-Punkt Untergruppe	. Gas-expansion chambers; Barrels provided with gas-relieving ports (F41A 1/06, F41A 13/08 take precedence) [5]
F41A 21/30	1-Punkt Untergruppe	. Silencers [5]
F41A 21/32	1-Punkt Untergruppe	. Muzzle attachments or glands (F41A 21/26, F41A 21/30, F41A 21/46 take precedence) [5]
F41A 21/34	2-Punkt Untergruppe	... Flash dampers [5]
F41A 21/36	2-Punkt Untergruppe	... for recoil reduction (recoil reduction arrangements in general F41A 25/00) [5]

Symbol	Typ	Titel
F41A 21/38	3-Punkt Untergruppe	... adjustable [5]
F41A 21/40	2-Punkt Untergruppe	... Chokes for shotguns [5]
F41A 21/42	3-Punkt Untergruppe	... adjustable [5]
F41A 21/44	1-Punkt Untergruppe	. Insulation jackets; Protective jackets [5]
F41A 21/46	1-Punkt Untergruppe	. Barrels having means for separating sabots from projectiles [5]
F41A 21/48	1-Punkt Untergruppe	. Barrel mounting means, e.g. releasable mountings for replaceable barrels [5]
F41A 23/00	Hauptgruppe	Gun mountings, e.g. on vehicles; Disposition of guns on vehicles (F41A 25/00, F41A 27/00 take precedence) [5]
F41A 23/02	1-Punkt Untergruppe	. Mountings without wheels [5]
F41A 23/04	2-Punkt Untergruppe	... Unipods [5]
F41A 23/06	3-Punkt Untergruppe	... adjustable [5]
F41A 23/08	2-Punkt Untergruppe	... Bipods [5]
F41A 23/10	3-Punkt Untergruppe	... adjustable [5]
F41A 23/12	2-Punkt Untergruppe	... Tripods [5]
F41A 23/14	3-Punkt Untergruppe	... adjustable [5]
F41A 23/16	2-Punkt Untergruppe	... Testing mounts [5]
F41A 23/18	2-Punkt Untergruppe	... Rests for supporting smallarms in non-shooting position (racks for storage A47B 81/00; racks in vehicles B60R 11/00) [5]
F41A 23/20	1-Punkt Untergruppe	. for disappearing guns [5]
F41A 23/22	2-Punkt Untergruppe	... on board of submarines [5]
F41A 23/24	1-Punkt Untergruppe	. Turret gun mountings (feeding, loading or guiding ammunition F41A 9/00; mechanical elevating or traversing systems for turret guns F41A 27/18) [5]
F41A 23/26	1-Punkt Untergruppe	. Mountings for transport only; Loading or unloading arrangements for guns for use with carrier vehicles (F41A 23/50 takes precedence) [5]
F41A 23/28	1-Punkt Untergruppe	. Wheeled-gun mountings; Endless-track gun mountings [5]
F41A 23/30	2-Punkt Untergruppe	... the wheels being liftable from the ground for firing [5]
F41A 23/32	2-Punkt Untergruppe	... with split trails (F41A 23/30, F41A 23/46 take precedence) [5]
F41A 23/34	1-Punkt Untergruppe	. on wheeled or endless-track vehicles [5]
F41A 23/36	2-Punkt Untergruppe	... on trailers (F41A 23/42 takes precedence) [5]
F41A 23/38	2-Punkt Untergruppe	... on motorcycles [5]
F41A 23/40	2-Punkt Untergruppe	... on rail vehicles [5]
F41A 23/42	2-Punkt Untergruppe	... for rocket throwers [5]
F41A 23/44	1-Punkt Untergruppe	. on sledges [5]
F41A 23/46	1-Punkt Untergruppe	. Trail spades [5]

Symbol	Typ	Titel
F41A 23/48	2-Punkt Untergruppe	... elastic [5]
F41A 23/50	1-Punkt Untergruppe	. Travelling locks; Brakes for holding the gun platform in a fixed position during transport [5]
F41A 23/52	1-Punkt Untergruppe	. Base plates for gun mountings [5]
F41A 23/54	2-Punkt Untergruppe	... for mortars [5]
F41A 23/56	1-Punkt Untergruppe	. Arrangements for adjusting the gun platform in the vertical or horizontal position (F41A 17/10, F41A 17/12 take precedence) [5]
F41A 23/58	2-Punkt Untergruppe	... Hydraulic jacks [5]
F41A 23/60	2-Punkt Untergruppe	... Screw-operated jacks [5]
F41A 25/00	Hauptgruppe	Gun mountings permitting recoil or return to battery, e.g. gun cradles; Barrel buffers or brakes (recoilless guns F41A 1/08) [5]
F41A 25/02	1-Punkt Untergruppe	. Fluid-operated systems [5]
F41A 25/04	2-Punkt Untergruppe	... adjustable [5]
F41A 25/06	1-Punkt Untergruppe	. Friction-operated systems [5]
F41A 25/08	2-Punkt Untergruppe	... adjustable [5]
F41A 25/10	1-Punkt Untergruppe	. Spring-operated systems [5]
F41A 25/12	2-Punkt Untergruppe	... using coil springs [5]
F41A 25/14	3-Punkt Untergruppe	... adjustable [5]
F41A 25/16	1-Punkt Untergruppe	. Hybrid systems [5]
F41A 25/18	2-Punkt Untergruppe	... Hydroelastic systems [5]
F41A 25/20	2-Punkt Untergruppe	... Hydropneumatic systems [5]
F41A 25/22	1-Punkt Untergruppe	. Bearing arrangements for the reciprocating gun-mount or barrel movement [5]
F41A 25/24	2-Punkt Untergruppe	... using ball or roller bearings [5]
F41A 25/26	1-Punkt Untergruppe	. Assembling or dismantling recoil elements or systems [5]
F41A 27/00	Hauptgruppe	Gun mountings permitting traversing or elevating movement, e.g. gun carriages [5]
F41A 27/02	1-Punkt Untergruppe	. Control systems for preventing interference between the moving gun and the adjacent structure [5]
F41A 27/04	1-Punkt Untergruppe	. Scatter-fire arrangements, i.e. means for oscillating guns automatically during firing [5]
F41A 27/06	1-Punkt Untergruppe	. Mechanical systems (F41A 27/02, F41A 27/04, F41A 27/30 take precedence) [5]
F41A 27/08	2-Punkt Untergruppe	... Bearings, e.g. trunnions; Brakes or blocking arrangements [5]
F41A 27/10	3-Punkt Untergruppe	... Bearings for supporting a pivoting gun in a wall, e.g. a turret wall [5]
F41A 27/12	3-Punkt Untergruppe	... Brakes or locks for blocking traversing or elevating gear in a fixed position [5]
F41A 27/14	3-Punkt Untergruppe	... Central-pivot bearings [5]
F41A 27/16	3-Punkt Untergruppe	... using raceway bearings, e.g. for supporting the turret [5]
F41A 27/18	2-Punkt Untergruppe	... for gun turrets (F41A 27/08 takes precedence) [5]
F41A 27/20	3-Punkt Untergruppe	... Drives for turret movements [5]

Symbol	Typ	Titel
F41A 27/22	2-Punkt Untergruppe	. . Traversing gear (F41A 27/18 takes precedence) [5]
F41A 27/24	2-Punkt Untergruppe	. . Elevating gear (F41A 27/18 takes precedence) [5]
F41A 27/26	1-Punkt Untergruppe	. Fluid-operated systems (F41A 27/02, F41A 27/04, F41A 27/30 take precedence) [5]
F41A 27/28	1-Punkt Untergruppe	. Electrically-operated systems (F41A 27/02, F41A 27/04, F41A 27/30 take precedence) [5]
F41A 27/30	1-Punkt Untergruppe	. Stabilisation or compensation systems, e.g. compensating for barrel weight or wind force [5]
F41A 29/00	Hauptgruppe	Cleaning or lubricating arrangements (injecting fluids into barrels or cartridge chambers F41A 13/04) [5]
F41A 29/02	1-Punkt Untergruppe	. Scrapers or cleaning rods [5]
F41A 29/04	1-Punkt Untergruppe	. Lubricating, oiling or greasing means, e.g. operating during use [5]
F41A 31/00	Hauptgruppe	Testing arrangements (testing mounts F41A 23/16) [5]
F41A 31/02	1-Punkt Untergruppe	. for checking gun barrels [5]
F41A 33/00	Hauptgruppe	Adaptations for training (adaptations of barrels for recoil reinforcement F41A 21/26); Gun simulators (teaching or practice apparatus for gun-aiming or gun-laying F41G 3/26) [5]
F41A 33/02	1-Punkt Untergruppe	. Light- or radiation-emitting guns [5]
F41A 33/04	1-Punkt Untergruppe	. Acoustical simulation of gun fire, e.g. by pyrotechnic means [5]
F41A 33/06	1-Punkt Untergruppe	. Recoil simulators [5]
F41A 35/00	Hauptgruppe	Accessories or details not otherwise provided for [5]
F41A 35/02	1-Punkt Untergruppe	. Dust- or weather-protection caps or covers (protecting-caps for trigger guards F41A 17/54) [5]
F41A 35/04	2-Punkt Untergruppe	. . Muzzle covers [5]
F41A 35/06	1-Punkt Untergruppe	. Adaptation of guns to both right and left hand use [5]
F41A 99/00	Hauptgruppe	Subject matter not provided for in other groups of this subclass [2006.01]