CPC COOPERATIVE PATENT CLASSIFICATION

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

WEAPONS; BLASTING

F41 WEAPONS

(NOTES omitted)

F41A FUNCTIONAL FEATURES OR DETAILS COMMON TO BOTH SMALLARMS AND ORDNANCE, e.g. CANNONS; MOUNTINGS FOR SMALLARMS OR ORDNANCE

NOTES

- 1. This subclass <u>covers</u> those features or details which are considered to be of a kind generally applicable to, or to be concerned with intrinsic functions common to, both smallarms and ordnance.
- 2. Such features or details are classified in this subclass, even if they are stated to be applied only to smallarms or only to ordnance.
- 3. Attention is drawn to the definitions given in Note (2) following the title of class F41.

WARNING

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.

1/00	Missile propulsion characterised by the use of explosive or combustible propellant charges (projecting missiles without use of explosive or	3/14	Rigid bolt locks, i.e. having locking elements rigidly mounted on the bolt or bolt handle and on the barrel or breech-housing respectively
	combustible propellant charge <u>F41B</u> ; launching rockets or torpedoes <u>F41F 3/00</u> ; missile self-propulsion <u>F42B 15/00</u>)	3/16	• • • the locking elements effecting a rotary movement about the barrel axis, e.g. rotating cylinder bolt locks
1/02	 Hypervelocity missile propulsion using successive means for increasing the propulsive force, e.g. using successively initiated propellant charges 	3/18 3/20	 hand-operated Straight-pull operated bolt locks, i.e. the operating hand effecting only a straight
	arranged along the barrel length; Multistage missile propulsion	3/22	movement parallel to the barrel axis the locking being effected by rotating the
1/04	• Missile propulsion using the combustion of a liquid, {loose powder} or gaseous fuel, e.g. hypergolic fuel		operating handle or lever transversely to the barrel axis
1/06	 Adjusting the range without varying elevation angle or propellant charge data, e.g. by venting a part of 	3/24	• • • • • the locking elements forming part of the operating handle or lever
	the propulsive charge gases, or by adjusting the capacity of the cartridge or combustion chamber {(adjusting the range by using gas-relieving ports in	3/26	 semi-automatically or automatically operated, e.g. having a slidable bolt-carrier and a rotatable bolt
1/08	 the barrel F41A 21/28)} Recoilless guns, i.e. guns having propulsion means producing no recoil 	3/28	having fixed locking elements on the non- rotating bolt and rotating locking elements mounted on the barrel or breech housing,
1/10	a counter projectile being used to balance recoil		e.g. rotatable rings
3/00 3/02	Breech mechanisms, e.g. locks Block action, i.e. the main breech opening	3/30	• • • Interlocking means, e.g. locking lugs, screw threads
	movement being transverse to the barrel axis	3/32	the bolt being rocked about a notional axis transverse to the barrel axis
3/04 3/06	 with pivoting breech-block about a horizontal axis transverse to the barrel 	3/34	the bolt additionally effecting a sliding movement transverse to the barrel axis
	axis at the rear of the block (<u>F41A 3/08</u> takes precedence)	3/36	• Semi-rigid bolt locks, i.e. having locking elements movably mounted on the bolt or on the
3/08	carrying a rotably mounted obturating plug of the screw-thread or the interrupted-thread type	3/38	barrel or breech housing
3/10	(F41A 3/30 takes precedence) • with sliding breech-block, e.g. vertically	3/38	• • • having rocking locking elements, e.g. pivoting levers or vanes
3/12	. Bolt action, i.e. the main breech opening movement	3/40	• • • mounted on the bolt (<u>F41A 3/42</u> takes precedence)
	being parallel to the barrel axis	3/42	hand-operated

3/44	 having sliding locking elements, e.g. balls, rollers 	5/20	• using a gas piston arranged concentrically around the barrel
3/46	$\cdot \cdot \cdot$ mounted on the bolt (<u>F41A 3/48</u> takes	5/22	having two or more gas pistons
3/48	precedence) hand-operated	5/24	by direct action of gas pressure on bolt or locking elements
3/50	Toggle-joint locks, e.g. crank-operated	5/26	Arrangements or systems for bleeding the gas
3/52	hand-operated	3/20	from the barrel ($\frac{\text{F41A 5}/20}{\text{F41A 5}/24}$ take
3/54	-		precedence)
3/34	Bolt locks of the unlocked type, i.e. being inertia	5/28	Adjustable systems
2/56	operated	5/30	Gas- or recoil-operated, e.g. selection of gas- or
3/56	 the bolt being provided with an additional slidable mass 	3/30	recoil-operated systems
3/58	Breakdown breech mechanisms, e.g. for shotguns	5/32	 Energy accumulator systems, i.e. systems for
3/60	Breech mechanisms for guns having two or more		opening the breech-block by energy accumulated
	barrels (F41A 3/58 takes precedence; for revolving-		during barrel or gas piston recoil
	cannon guns <u>F41F 1/10</u>)	5/34	 with spring accumulators
3/62	 using combustion gas pressure for adding to the 	5/36	 with fluid accumulators
	mechanical locking action, or for delaying breech	7/00	Ailia
	opening movement	7/00	Auxiliary mechanisms for bringing the breech-
3/64	. Mounting of breech-blocks; Accessories for breech-		block or bolt or the barrel to the starting position
	blocks or breech-block mountings		before automatic firing; Drives for externally-
3/66	Breech housings or frames; Receivers	7/02	powered guns; Remote-controlled gun chargers
3/68	• Bolt stops, i.e. means for limiting bolt opening	7/02	• Machine gun rechargers, e.g. manually operated
	movement	7/04	(<u>F41A 3/72</u> takes precedence)
3/70	Anti-rebound arrangements, i.e. preventing	7/04	fluid operated
	rebound of the bolt out of the firing position	7/06	electrically operated
	{(safeties for locking the breech-block or bolt in a	7/08	• Drives for externally-powered guns, i.e. drives for
	safety position F41A 17/42)}		moving the breech-block or bolt by an external
3/72	Operating handles or levers; Mounting thereof in	5 /10	force during automatic firing
	breech-blocks or bolts {(<u>F41C 7/02</u> , <u>F41C 7/06</u>	7/10	• using a rotating cylindrical drum having a
	take precedence)}		camming groove (<u>F41F 1/10</u> takes precedence)
3/74	Obturating or packing devices for gas leak	9/00	Feeding or loading of ammunition ({conveying
	prevention in breech mechanisms		ammunition through pipes by the action of flowing
3/76	specially adapted for sealing the gap between		gases <u>B65G 51/025</u> }; adaptations for feeding
	the forward end of the cartridge chamber and		or loading missiles from magazines in air guns
	the rearward end of the barrel, e.g. sealing		F41B 11/50); Magazines; Guiding means for the
	devices for revolvers or revolver-type guns		extracting of cartridges (cartridge extractors or
3/78	Bolt buffer or recuperator means		ejectors <u>F41A 15/00</u>)
3/80	Adjustable spring buffers	9/01	 Feeding of unbelted ammunition
3/82	• • Coil spring buffers (<u>F41A 3/80</u> takes	9/02	• using wheel conveyors, e.g. star-wheel-shaped
	precedence)		conveyors
3/84	mounted within the gun stock	9/03	 using screw or rotary-spiral conveyors
3/86	• • • mounted under {or above} the barrel	9/04	using endless-chain belts carrying a plurality of
3/88	mounted around the barrel		ammunition
3/90	• • Fluid buffers {(<u>F41A 3/62</u> takes precedence)}	9/05	in tandem sequence
3/92	adjustable	9/06	using cyclically moving conveyors, i.e. conveyors
3/94	in combination with spring buffers		having ammunition pusher or carrier elements
			which are emptied or disengaged from the
5/00	Mechanisms or systems operated by propellant		ammunition during the return stroke
- 10.0	charge energy for automatically opening the lock	9/07	Reciprocating conveyors, i.e. conveyors
5/02	 recoil-operated 		pushing a plurality of ammunition during the
5/04	the barrel being tilted during recoil		feeding stroke
5/06	the barrel being rotated about its longitudinal axis	9/09	• • • Movable ammunition carriers or loading trays,
	during recoil		e.g. for feeding from magazines {(locking
5/08	having an accelerator lever acting on the breech-		of ammunition in ammunition containers or
	block or bolt during the opening movement		loading trays <u>F42B 39/22</u>)}
5/10	• • having a movable inertia weight {, e.g. for storing	9/10	pivoting or swinging
	energy}	9/11	• • • • in a horizontal plane
5/12	mounted in a gun having a fixed barrel	9/12	mounted within a smallarm
5/14	Barrel stops, i.e. devices for holding the recoiling	9/13	in a vertical plane
	barrel in a predetermined position, e.g. the recoil	9/14	• • • • • {which is} transverse to the barrel axis
	position	9/15	mounted within a smallarm
5/16	having a barrel moving forwardly after the firing	9/16	• • • • • {which is} parallel to the barrel axis
	of a shot	9/17	mounted within a smallarm
5/18	 gas-operated 	-	

9/18	• • • • • • • • • feeding from a {tubular} magazine under the barrel	9/49	 Internally-powered drives, i.e. operated by propellant charge energy, e.g. couplings, clutches,
9/19	• • • • • • feeding from a {tubular} magazine		energy accumulators
	mounted in the stock	9/50	 External power or control systems
9/20	• • • sliding, e.g. reciprocating	9/51	 Boosters, i.e. externally-powered motors
9/21	• • • • in a vertical direction (<u>F41A 9/23</u> takes precedence)	9/52	 Arrangements for changing from automatic or magazine-loading to hand-loading
9/22	• • • • in a horizontal direction (<u>F41A 9/23</u> takes precedence)	9/53	 Charged-condition indicators, i.e. indicating the presence of a cartridge in the cartridge chamber
9/23	mounted within a smallarm	9/54	• Cartridge guides, stops or positioners, e.g. for
9/24	using a movable magazine or clip as feeding		cartridge extraction
	element	9/55	Fixed {or movable} guiding means, mounted on,
9/25	using a sliding clip		or near, the cartridge chamber
9/26	using a revolving drum magazine	9/56	Movable guiding means {(F41A 9/55 takes
9/27	in revolver-type guns		precedence)}
9/28	of smallarm type (in revolvers <u>F41C 3/14</u>)	9/57	Flexible chutes, e.g. for guiding belted
9/29	Feeding of belted ammunition		ammunition from the magazine to the gun
9/30	Sprocket-type belt transporters	9/58	 Cartridge stops; Cartridge positioners
9/31	with cartridge stripping means	9/59	 Ejectors for clips or magazines, e.g. when empty
9/32	Reciprocating-slide-type belt transporters	9/60	 Empty-cartridge-case or belt-link collectors or
9/33	• • • with cartridge stripping means		catchers (F41A 9/81 takes precedence)
9/34	from magazines (magazines for belted)	9/61	 Magazines
7/31	ammunition per se F41A 9/79)	9/62	having means for indicating the number of
9/35	Feeding multibarrel guns		cartridges left in the magazine, e.g. last-round
,,,,,			indicators (last-round safeties <u>F41A 17/40</u>)
	<u>NOTE</u>	9/63	specially adapted for releasable connection with
	Feeding elements or concepts of general interest,		other magazines
	not specially adapted for feeding multibarrel	9/64	 for unbelted ammunition
	guns, are classified in groups F41A 9/01 or	9/65	 Box magazines having a cartridge follower
	<u>F41A 9/29</u> .	9/66	Arrangements thereon for charging, i.e.
0/26	E		reloading (apparatus or tools for reloading of
9/36	. Feed mechanisms for revolving-cannon guns		magazines <u>F41A 9/83</u>)
9/37	• Feeding two or more kinds of ammunition to the	9/67	• • • • having means for depressing the cartridge
0/275	same gun; Feeding from two sides		follower, or for locking it in a depressed
9/375	• • {Feeding propellant charges and projectiles as		position
	separate units}	9/68	Plural magazines, e.g. tandem magazines
	<u>NOTE</u>		{; Arrangements of cartridges in two or
	Feeding elements or concepts of general		more independent rows or channels which
	interest, not specially adapted for feeding		are selectively or sequentially brought into
	two or more kinds of ammunition or	0.760	operative position}
	from two sides, are classified in groups	9/69	characterised by multiple-row or zigzag
	<u>F41A 9/01</u> - <u>F41A 9/29</u> .	0/70	arrangement of cartridges
0.420		9/70	Arrangements thereon for discharging, e.g.
9/38	• Loading arrangements, i.e. for bringing the	0/71	cartridge followers or discharge throats
0.120	ammunition into the firing position	9/71	Arrangements thereon for varying capacity; Adapters or inserts for changing cartridge
9/39	Ramming arrangements		size or type
9/40	the breech-block itself being the rammer	9/72	Tubular magazines, i.e. magazines containing
9/41	pushing unbelted ammunition from a box	9/12	the ammunition in lengthwise tandem sequence
	magazine on the gun frame into the cartridge	9/73	Drum magazines
0.442	chamber		
9/42	Rammers separate from breech-block	9/74	with radially disposed cartridges
9/43	Chain rammers	9/75	having a spiral cartridge channel
9/44	Fluid-operated piston rammers	9/76	Magazines having an endless-chain conveyor
9/45	• the cartridge chamber or the barrel as a whole	9/77	Magazines having a screw conveyor
	being tiltable {or transversely slidable} between	9/78	Magazines having a reciprocating conveyor
	a loading and a firing position { (F41A 9/25) and	9/79	• for belted ammunition
0/46	F41A 9/27 take precedence)}	9/80	having provision for quick-coupling of the belts
9/46	the cartridge chamber being formed by two	0.101	of adjacent magazines
	complementary elements, movable one relative to the other for loading	9/81	• • • having provision for collecting belt links or
0/47		0.100	empty cartridge cases
9/47	 using forwardly-sliding barrels or barrel parts for loading 	9/82	Reloading {or unloading} of magazines
0//19		9/83	Apparatus or tools for reloading magazines with
9/48	Loading by gravitational force	0./0.4	unbelted ammunition, e.g. cartridge clips
		9/84	Clips

0./0.5	C 1 1: 1	17/00	
9/85	for reloading revolver-type magazines	17/08	• for inhibiting firing in a specified direction, e.g. at a
9/86	 Feeding belted ammunition into magazines 		friendly person or at a protected area (F41A 27/02
9/87	 Ammunition handling dollies or transfer carts 		takes precedence)
	(F41A 9/86 takes precedence)	17/10	 Firing mechanisms with elevation stop
		17/12	Firing mechanisms with anti-canting safety
11/00	Assembly or disassembly features; Modular	17/14	Double-loading prevention
	concepts; Articulated or collapsible guns	17/16	• Cook-off prevention, i.e. prevention of spontaneous
	(<u>F41A 3/64</u> , <u>F41A 19/10</u> - <u>F41A 19/15</u> , <u>F41A 21/48</u> ,	17/10	
	F41A 25/26 take precedence)	17/10	firing of a cartridge by chamber wall heat
11/02	 Modular concepts, e.g. weapon-family concepts 	17/18	. Hang-fire prevention
11/04	Articulated or collapsible guns, i.e. with hinged or	17/20	 Grip or stock safeties, i.e. safeties disengaged by
11,0.	telescopic parts for transport or storage (breakdown		clasping the grip or stock (thumb-operated sliding
	shotguns or rifles F41C 7/11; folding or telescopic		safeties <u>F41A 17/52</u> , <u>F41A 17/62</u> , <u>F41A 17/70</u> ,
	stocks or stock parts $\underline{F41C\ 23/04}$)		<u>F41A 17/80</u>)
11/06	Telescopic guns	17/22	acting on the trigger
11/00	• • Telescopic guils	17/24	acting on the firing pin
13/00	Cooling or heating systems; Blowing-through of	17/26	acting on the hammer
	gun barrels; Ventilating systems	17/28	• acting on the sear
13/02	. Heating systems		——————————————————————————————————————
	 Injecting fluids into barrels or cartridge chambers 	17/30	• Multiple safeties, i.e. {one safety element} acting on
13/04			at least one element of the firing mechanism and at
10/0-	(F41A 13/08 takes precedence)		least one other element of the gun, e.g. the moving
13/06	 Evacuating combustion gas from barrels 		barrel
	(<u>F41A 13/10</u> takes precedence)	17/32	• • the other element being the breech-block or bolt
13/08	 Bore evacuators, i.e. chambers disposed around 	17/34	 Magazine safeties
	barrels for storing part of the combustion gas and	17/36	locking the gun {automatically} in a safety
	subsequently injecting it into the barrel to provide		condition when the magazine is empty or
	suction		removed {(F41A 17/44 takes precedence)}
13/10	. Blowers or turbines for evacuating or cooling guns,	17/38	• • {Magazine mountings, e.g. for} locking the
	e.g. driven by combustion gas pressure or recoil	17750	magazine in the gun
13/12	Systems for cooling the outer surface of the barrel	17/40	-
13/12	(<u>F41A 13/10</u> , <u>F41A 21/24</u> take precedence)		• Last-round safeties (<u>F41A 17/34</u> takes precedence)
	(<u>141A 15/10</u> , <u>141A 21/24</u> take precedence)	17/42	• Safeties for locking the breech-block or bolt
15/00	Cartridge extractors, i.e. devices for pulling		in a safety position (<u>F41A 17/32</u> , <u>F41A 17/36</u> ,
	cartridges or cartridge cases at least partially		F41A 17/40 take precedence {; anti-rebound
	out of the cartridge chamber; Cartridge ejectors,		arrangements $\underline{F41A \ 3/70}$)
	i.e. devices for throwing the extracted cartridges	17/44	 Safety plugs, e.g. for plugging-up cartridge
	or cartridge cases free of the gun (F41A 9/54,		chambers {, barrels, magazine spaces}
	{F41C 9/08} take precedence; {Means for removing	17/46	 Trigger safeties, i.e. means for preventing trigger
	duds or misfires in rocket throwers F41F 3/058})		movement (<u>F41A 17/02</u> - <u>F41A 17/40</u> take
15/02	• for revolver-type guns, e.g. revolvers		precedence)
		17/48	Automatically operated trigger safeties, i.e.
15/04	• specially adapted for cartridge cases being deformed		operated by breech opening or closing movement
	when fired, e.g. of plastics	17/50	by breakdown action
15/06	for breakdown guns	17/52	Thumb-operated sliding safeties mounted on the
15/08	 for block-action guns 	17/32	upside of the stock, e.g. for shotguns
15/10	• of sliding-block type	17/54	
15/12	 for bolt-action guns 	17/54	Protecting-caps for trigger guards; Trigger
15/14	the ejector being mounted on or within the bolt;		locking pieces mounted on, or within, the trigger
10,1.	{Extractors per se}		guard
15/16	• • the ejector being mounted on the breech housing	17/56	 Sear safeties, i.e. means for rendering ineffective
13/10			an intermediate lever transmitting trigger
15/10	or frame		movement to firing pin, hammer, bolt or sear
15/18	 for guns with forwardly slidable barrels 		(<u>F41A 17/02</u> - <u>F41A 17/40</u> take precedence)
15/20	 specially adapted for caseless-ammunition duds 	17/58	automatically operated, i.e. operated by breech
15/22	 Tools for extracting cartridges 		opening or closing movement
15/00		17/60	by breakdown action
17/00	Safety arrangements, e.g. safeties	17/62	Thumb-operated sliding safeties mounted on the
17/02	• Key-operated safeties {(<u>F41A 17/44</u> takes	17/02	upside of the stock, e.g. for shotguns
	precedence)}	15/64	
17/04	 Safeties of the combination-lock type (<u>F41A 17/02</u> 	17/64	• Firing-pin safeties, i.e. means for preventing
	takes precedence)		movement of slidably- mounted strikers
17/06	• Electric or electromechanical safeties (F41A 17/04,		(<u>F41A 17/02</u> - <u>F41A 17/40</u> take precedence)
	F41A 17/08 take precedence)	17/66	automatically operated, i.e. operated by breech
17/063	• • {comprising a transponder}		opening or closing movement
17/066	 • {comprising a transponder} • {having means for recognizing biometric 	17/68	by breakdown action
1 //000		17/70	Thumb-operated sliding safeties mounted on the
	parameters, e.g. voice control, finger print or		upside of the stock, e.g. for shotguns
	palm print control}		, , , , , , , , , , , , , , , , , , , ,

17/72	• • trigger-operated, i.e. the movement of the trigger	19/24	Release-trigger mechanisms, i.e. the striker
	bringing a firing-pin safety into inoperative		element being released during the return
	position during the firing		movement of the trigger subsequent to trigger pull
17/74	• Hammer safeties, i.e. means for preventing the	19/25	• having only slidably-mounted striker elements,
	hammer from hitting the cartridge or the firing pin		i.e. percussion or firing pins
17/76	(<u>F41A 17/02</u> - <u>F41A 17/40</u> take precedence)	19/26	the percussion or firing pin and the breech-
17/76	automatically operated, i.e. operated by breech		block or bolt forming one piece {(<u>F41A 19/34</u>
17/70	opening or closing movement	10/27	takes precedence)}
17/78	 by breakdown action. Thumb-operated sliding safeties mounted on the	19/27	the percussion or firing pin being movable relative to the breech-block
17/80	upside of the stock, e.g. for shotguns	19/28	propelled by a cam or lever when the breech-
17/82	 trigger-operated, i.e. the movement of the trigger 	19/20	block or bolt arrives in a closing position
17/02	bringing a hammer safety into inoperative	19/29	• • • propelled by a spring under tension
	position during firing	19/30	in bolt-action guns
		19/31	Sear arrangements therefor (F41A 19/33
19/00	Firing or trigger mechanisms; Cocking	17/31	takes precedence)
	mechanisms	19/32	• • • • • • for catching the percussion or firing
19/01	• Counting means indicating the number of shots fired	17/32	pin after each shot, i.e. in single-shot
19/02	• Burst limiters (<u>F41A 19/67</u> takes precedence)		or semi-automatic firing mode
19/03	• Shot-velocity control (<u>F41A 3/78</u> , <u>F41A 5/28</u> ,	19/33	Arrangements for the selection of
	<u>F41A 19/05</u> , <u>F41A 19/66</u> take precedence)		automatic or semi-automatic fire
19/04	by controlling the time of release of the firing pin	19/34	Cocking mechanisms
10/05	or hammer	19/35	Double-action mechanisms, i.e. the
19/05	• Synchronising for firing through the propeller of an		cocking being effected during the first
10/06	aircraft		part of the trigger pull movement
19/06	 Mechanical firing mechanisms, {e.g. counterrecoil firing, recoil actuated firing 	19/36	in block-action guns
	mechanisms}(<u>F41A 19/01</u> - <u>F41A 19/05</u> ,	19/37	Cocking mechanisms
	F41A 19/59 take precedence)	19/38	Double-action mechanisms, i.e. the
19/07	• press-button actuated, e.g. with thumb rest		cocking being effected during the first
19/08	remote actuated; lanyard actuated		part of the trigger pull movement
19/09	Auxiliary trigger devices (F41A 19/08 takes)	19/39	Cocking {or firing} mechanisms for other
17/07	precedence)		types of guns, e.g. fixed breech-block
19/10	. Triggers; Trigger mountings	10/10	types, forwardly-slidable barrel types
19/11	Trigger guards; Trigger-guard mountings	19/40	Double-action mechanisms, i.e. the
	(F41A 19/15 takes precedence)		cocking being effected during the first part of the trigger pull movement
19/12	Sears; Sear mountings	19/41	for breakdown guns
19/13	Percussion or firing pins, i.e. fixed or slidably-	19/42	having at least one hammer
	mounted striker elements; Mountings therefor	19/42	in bolt-action guns
	$\{(\underline{F41A \ 19/26} \ takes \ precedence)\}$	19/43	Sear arrangements therefor (F41A 19/46
19/14	Hammers, i.e. pivotably-mounted striker	1 // 44	takes precedence)
	elements; Hammer mountings	19/45	• • • • for catching the hammer after each shot,
19/15	 Modular firing mechanism units 	17/43	i.e. in single-shot or semi-automatic firing
19/16	 Adjustable firing mechanisms; Trigger 		mode
	mechanisms with adjustable trigger pull	19/46	Arrangements for the selection of automatic
	(<u>F41A 19/17</u> takes precedence)		or semi-automatic fire
19/17	Hair-trigger mechanisms	19/47	Cocking mechanisms
19/18	• • for multibarrel guns {or multiple	19/48	Double-action mechanisms, i.e. the
10/102	guns}(F41A 19/68 takes precedence)		cocking being effected during the first part
19/183	• • • {for multiple guns, i.e. a plurality of guns being		of the trigger pull movement
10/196	actuated by a single firing mechanism}	19/49	in block-action guns
19/186	 • {having only one striker element and more than one trigger, each trigger acting on a 	19/50	Cocking mechanisms
	single element (firing mechanisms having	19/51	Double-action mechanisms, i.e. the
	only one trigger and only one striker element		cocking being effected during the first part
	F41A 19/22)}		of the trigger pull movement
19/19	• • • with single-trigger firing possibility	19/52	Cocking {or firing} mechanisms for other
19/20	Double-trigger arrangements having the		types of guns, e.g. fixed breech-block types,
	possibility of single-trigger actuation	10/52	revolvers
19/21	having only one trigger	19/53	Double-action mechanisms, i.e. the cocking
19/22	and only one striker element		being effected during the first part of the trigger pull movement
19/23	rotatable about an axis parallel to the	19/54	for breakdown guns
	barrel axis for firing subsequent barrels	19/54	Fluid-operated firing mechanisms
		17/33	• 1 raid-operated ming meenanisms

19/56	Ignition of the propellant charge by contact with	21/325	• • {Mountings for muzzle attachments}
	air heated by adiabatic compression	21/34	• • Flash dampers
19/57	Firing mechanisms operating with primer cartridge	21/36	• • for recoil reduction (recoil reduction
19/58	• Electric firing mechanisms (F41A 17/10,		arrangements in general F41A 25/00){;
17,00	F41A 17/12 take precedence)		Stabilisators; Compensators, e.g. for muzzle
19/59	• Electromechanical firing mechanisms, i.e. the		climb prevention}
17/37		21/20	
	mechanical striker element being propelled or	21/38	adjustable {, i.e. the vent holes or the vent area
	released by electric means		being adjustable}
19/60	• characterised by the means for generating electric	21/40	Chokes for shotguns {, e.g. automatic chokes}
	energy	21/42	• • {manually} adjustable
19/61	Inductive generators {(F41A 19/63 takes	21/44	 Insulation jackets; Protective jackets
	precedence)}	21/46	Barrels having means for separating sabots from
19/62	Piezoelectric generators	21/10	projectiles
19/63	having means for contactless transmission of	21/48	Barrel mounting means, e.g. releasable mountings
17/03	electric energy, e.g. by induction, by sparking gap	21/40	
10/64		21/401	for replaceable barrels
19/64	for automatic or burst-firing mode	21/481	• • {using partial or interrupted threads, e.g. bayonet-
19/65	• • • for giving ripple fire, i.e. using electric		type mountings}
	sequencer switches for timed multiple-charge	21/482	• • {using continuous threads on the barrel}
	launching, e.g. for rocket launchers	21/484	• • {using interlocking means, e.g. by sliding pins}
19/66	Electronic shot-velocity control (F41A 19/65	21/485	• • {using screws or bolts}
	takes precedence)	21/487	• {using serews of solis}• {using friction, e.g. by clamping a barrel surface}
19/67	Burst limiters		
		21/488	• • {Mountings specially adapted for pistols or
19/68	for multibarrel guns {or multibarrel rocket		revolvers}
	launchers or multicanisters}(F41A 19/65 takes	23/00	Cun mountings again validage Disposition of
	precedence)	23/00	Gun mountings, e.g. on vehicles; Disposition of
19/69	 Electric contacts or switches peculiar thereto 		guns on vehicles (<u>F41A 25/00</u> , <u>F41A 27/00</u> take
	(<u>F41A 19/65</u> takes precedence)		precedence)
19/70	Electric firing pins; Mountings therefor	23/005	• {Locks for connecting guns to their mountings
			(F41A 23/50 takes precedence)
21/00	Barrels; Gun tubes; Muzzle attachments; Barrel	23/02	 Mountings without wheels
	mounting means (F41A 25/00 takes precedence;		-
	barrel attachments for firing grenades or riot-control		<u>NOTE</u>
	ammunition from smallarms F41C 27/06)		Shooting stands for hunting A01M 31/02
21/02	ammunition from smallarms F41C 27/06) Composite barrels, i.e. barrels baying multiple		Shooting stands for hunting A01M 31/02
21/02	• Composite barrels, i.e. barrels having multiple	23/04	
	 Composite barrels, i.e. barrels having multiple layers, e.g. of different materials 	23/04	Unipods
21/04	 Composite barrels, i.e. barrels having multiple layers, e.g. of different materials Barrel liners 	23/06	Unipodsadjustable
	 Composite barrels, i.e. barrels having multiple layers, e.g. of different materials Barrel liners Plural barrels 	23/06 23/08	. Unipods. adjustable. Bipods
21/04	 Composite barrels, i.e. barrels having multiple layers, e.g. of different materials Barrel liners 	23/06 23/08 23/10	UnipodsadjustableBipodsadjustable
21/04 21/06	 Composite barrels, i.e. barrels having multiple layers, e.g. of different materials Barrel liners Plural barrels Barrel junctions 	23/06 23/08	. Unipods. adjustable. Bipods
21/04 21/06 21/08	 Composite barrels, i.e. barrels having multiple layers, e.g. of different materials Barrel liners Plural barrels Barrel junctions Insert barrels, i.e. barrels for firing reduced calibre 	23/06 23/08 23/10	UnipodsadjustableBipodsadjustable
21/04 21/06 21/08	 Composite barrels, i.e. barrels having multiple layers, e.g. of different materials Barrel liners Plural barrels Barrel junctions Insert barrels, i.e. barrels for firing reduced calibre ammunition and being mounted within the normal 	23/06 23/08 23/10 23/12 23/14	 Unipods adjustable Bipods adjustable Tripods {; Mountings having at least three legs} adjustable
21/04 21/06 21/08 21/10	 Composite barrels, i.e. barrels having multiple layers, e.g. of different materials Barrel liners Plural barrels Barrel junctions Insert barrels, i.e. barrels for firing reduced calibre ammunition and being mounted within the normal barrels 	23/06 23/08 23/10 23/12 23/14 23/16	 Unipods adjustable Bipods adjustable Tripods {; Mountings having at least three legs} adjustable Testing mounts
21/04 21/06 21/08	 Composite barrels, i.e. barrels having multiple layers, e.g. of different materials Barrel liners Plural barrels Barrel junctions Insert barrels, i.e. barrels for firing reduced calibre ammunition and being mounted within the normal barrels Cartridge chambers; Chamber liners (F41A 3/74, 	23/06 23/08 23/10 23/12 23/14	 Unipods adjustable Bipods adjustable Tripods {; Mountings having at least three legs} adjustable Testing mounts Rests for supporting smallarms in non-shooting
21/04 21/06 21/08 21/10	 Composite barrels, i.e. barrels having multiple layers, e.g. of different materials Barrel liners Plural barrels Barrel junctions Insert barrels, i.e. barrels for firing reduced calibre ammunition and being mounted within the normal barrels Cartridge chambers; Chamber liners (F41A 3/74, F41A 9/46, F41A 21/04 take precedence) 	23/06 23/08 23/10 23/12 23/14 23/16	 Unipods adjustable Bipods adjustable Tripods {; Mountings having at least three legs} adjustable resting mounts Rests for supporting smallarms in non-shooting position (racks for storage A47B 81/00; racks in
21/04 21/06 21/08 21/10	 Composite barrels, i.e. barrels having multiple layers, e.g. of different materials Barrel liners Plural barrels Barrel junctions Insert barrels, i.e. barrels for firing reduced calibre ammunition and being mounted within the normal barrels Cartridge chambers; Chamber liners (F41A 3/74, F41A 9/46, F41A 21/04 take precedence) Arrangement of cartridge chambers lateral to the 	23/06 23/08 23/10 23/12 23/14 23/16 23/18	 Unipods adjustable Bipods adjustable Tripods {; Mountings having at least three legs} adjustable adjustable Testing mounts Rests for supporting smallarms in non-shooting position (racks for storage A47B 81/00; racks in vehicles {B60R 7/14})
21/04 21/06 21/08 21/10	 Composite barrels, i.e. barrels having multiple layers, e.g. of different materials Barrel liners Plural barrels Barrel junctions Insert barrels, i.e. barrels for firing reduced calibre ammunition and being mounted within the normal barrels Cartridge chambers; Chamber liners (F41A 3/74, F41A 9/46, F41A 21/04 take precedence) 	23/06 23/08 23/10 23/12 23/14 23/16 23/18	 Unipods adjustable Bipods adjustable Tripods {; Mountings having at least three legs} adjustable Testing mounts Rests for supporting smallarms in non-shooting position (racks for storage A47B 81/00; racks in vehicles {B60R 7/14}) for disappearing guns
21/04 21/06 21/08 21/10	 Composite barrels, i.e. barrels having multiple layers, e.g. of different materials Barrel liners Plural barrels Barrel junctions Insert barrels, i.e. barrels for firing reduced calibre ammunition and being mounted within the normal barrels Cartridge chambers; Chamber liners (F41A 3/74, F41A 9/46, F41A 21/04 take precedence) Arrangement of cartridge chambers lateral to the 	23/06 23/08 23/10 23/12 23/14 23/16 23/18	 Unipods adjustable Bipods adjustable Tripods {; Mountings having at least three legs} adjustable adjustable Testing mounts Rests for supporting smallarms in non-shooting position (racks for storage A47B 81/00; racks in vehicles {B60R 7/14})
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21/04 21/06 21/08 21/10 21/12 21/14 21/16 21/18	 Composite barrels, i.e. barrels having multiple layers, e.g. of different materials Barrel liners Plural barrels Barrel junctions Insert barrels, i.e. barrels for firing reduced calibre ammunition and being mounted within the normal barrels Cartridge chambers; Chamber liners (F41A 3/74, F41A 9/46, F41A 21/04 take precedence) Arrangement of cartridge chambers lateral to the barrel axis Barrels or gun tubes characterised by the shape of the bore Grooves-Rifling 	23/06 23/08 23/10 23/12 23/14 23/16 23/18	 Unipods adjustable Bipods adjustable Tripods {; Mountings having at least three legs} adjustable Testing mounts Rests for supporting smallarms in non-shooting position (racks for storage A47B 81/00; racks in vehicles {B60R 7/14}) for disappearing guns on board of submarines Turret gun mountings (feeding, loading or guiding ammunition F41A 9/00; mechanical elevating or
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21/04 21/06 21/08 21/10 21/12 21/14 21/16 21/18 21/20	 Composite barrels, i.e. barrels having multiple layers, e.g. of different materials Barrel liners Plural barrels Barrel junctions Insert barrels, i.e. barrels for firing reduced calibre ammunition and being mounted within the normal barrels Cartridge chambers; Chamber liners (F41A 3/74, F41A 9/46, F41A 21/04 take precedence) Arrangement of cartridge chambers lateral to the barrel axis Barrels or gun tubes characterised by the shape of the bore Grooves-Rifling Barrels or gun tubes characterised by the material (F41A 21/02 takes precedence) 	23/06 23/08 23/10 23/12 23/14 23/16 23/18	 Unipods adjustable Bipods adjustable Tripods {; Mountings having at least three legs} adjustable Testing mounts Rests for supporting smallarms in non-shooting position (racks for storage A47B 81/00; racks in vehicles {B60R 7/14}) for disappearing guns on board of submarines Turret gun mountings (feeding, loading or guiding ammunition F41A 9/00; mechanical elevating or traversing systems for turret guns F41A 27/18) Mountings for transport only; Loading or unloading
21/04 21/06 21/08 21/10 21/12 21/14 21/16 21/18	 Composite barrels, i.e. barrels having multiple layers, e.g. of different materials Barrel liners Plural barrels Barrel junctions Insert barrels, i.e. barrels for firing reduced calibre ammunition and being mounted within the normal barrels Cartridge chambers; Chamber liners (F41A 3/74, F41A 9/46, F41A 21/04 take precedence) Arrangement of cartridge chambers lateral to the barrel axis Barrels or gun tubes characterised by the shape of the bore Grooves-Rifling Barrels or gun tubes characterised by the material (F41A 21/02 takes precedence) Barrels which have undergone surface treatment, 	23/06 23/08 23/10 23/12 23/14 23/16 23/18 23/20 23/22 23/24	 Unipods adjustable Bipods adjustable Tripods {; Mountings having at least three legs} adjustable Testing mounts Rests for supporting smallarms in non-shooting position (racks for storage A47B 81/00; racks in vehicles {B60R 7/14}) for disappearing guns on board of submarines Turret gun mountings (feeding, loading or guiding ammunition F41A 9/00; mechanical elevating or traversing systems for turret guns F41A 27/18) Mountings for transport only; Loading or unloading arrangements for guns for use with carrier vehicles
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21/04 21/06 21/08 21/10 21/12 21/14 21/16 21/18 21/20 21/22 21/24	 Composite barrels, i.e. barrels having multiple layers, e.g. of different materials Barrel liners Plural barrels Barrel junctions Insert barrels, i.e. barrels for firing reduced calibre ammunition and being mounted within the normal barrels Cartridge chambers; Chamber liners (F41A 3/74, F41A 9/46, F41A 21/04 take precedence) Arrangement of cartridge chambers lateral to the barrel axis Barrels or gun tubes characterised by the shape of the bore Grooves-Rifling Barrels or gun tubes characterised by the material (F41A 21/02 takes precedence) Barrels which have undergone surface treatment, e.g. phosphating {(F41A 21/44 takes precedence)} Barrels or gun tubes with fins or ribs, e.g. for cooling (F41G 1/42 takes precedence) specially adapted for recoil reinforcement, e.g. for training purposes Gas-expansion chambers; Barrels provided with 	23/06 23/08 23/10 23/12 23/14 23/16 23/18 23/20 23/22 23/24 23/26	 Unipods adjustable Bipods adjustable Tripods {; Mountings having at least three legs} adjustable Testing mounts Rests for supporting smallarms in non-shooting position (racks for storage A47B 81/00; racks in vehicles {B60R 7/14}) for disappearing guns on board of submarines Turret gun mountings (feeding, loading or guiding ammunition F41A 9/00; mechanical elevating or traversing systems for turret guns F41A 27/18) Mountings for transport only; Loading or unloading arrangements for guns for use with carrier vehicles (F41A 23/50 takes precedence) Wheeled-gun mountings; Endless-track gun mountings the wheels being liftable from the ground for firing with split trails (F41A 23/30, F41A 23/46 takes
21/04 21/06 21/08 21/10 21/12 21/14 21/16 21/18 21/20 21/22 21/24 21/26	 Composite barrels, i.e. barrels having multiple layers, e.g. of different materials Barrel liners Plural barrels Barrel junctions Insert barrels, i.e. barrels for firing reduced calibre ammunition and being mounted within the normal barrels Cartridge chambers; Chamber liners (F41A 3/74, F41A 9/46, F41A 21/04 take precedence) Arrangement of cartridge chambers lateral to the barrel axis Barrels or gun tubes characterised by the shape of the bore Grooves-Rifling Barrels or gun tubes characterised by the material (F41A 21/02 takes precedence) Barrels which have undergone surface treatment, e.g. phosphating {(F41A 21/44 takes precedence)} Barrels or gun tubes with fins or ribs, e.g. for cooling (F41G 1/42 takes precedence) specially adapted for recoil reinforcement, e.g. for training purposes Gas-expansion chambers; Barrels provided with gas-relieving ports (F41A 1/06, F41A 13/08 {and 	23/06 23/08 23/10 23/12 23/14 23/16 23/18 23/20 23/22 23/24 23/26 23/28 23/30 23/32	 Unipods adjustable Bipods adjustable Tripods {; Mountings having at least three legs} adjustable Testing mounts Rests for supporting smallarms in non-shooting position (racks for storage A47B 81/00; racks in vehicles {B60R 7/14}) for disappearing guns on board of submarines Turret gun mountings (feeding, loading or guiding ammunition F41A 9/00; mechanical elevating or traversing systems for turret guns F41A 27/18) Mountings for transport only; Loading or unloading arrangements for guns for use with carrier vehicles (F41A 23/50 takes precedence) Wheeled-gun mountings; Endless-track gun mountings the wheels being liftable from the ground for firing with split trails (F41A 23/30, F41A 23/46 takes precedence)
21/04 21/06 21/08 21/10 21/12 21/14 21/16 21/18 21/20 21/22 21/24 21/26 21/28	 Composite barrels, i.e. barrels having multiple layers, e.g. of different materials Barrel liners Plural barrels Barrel junctions Insert barrels, i.e. barrels for firing reduced calibre ammunition and being mounted within the normal barrels Cartridge chambers; Chamber liners (F41A 3/74, F41A 9/46, F41A 21/04 take precedence) Arrangement of cartridge chambers lateral to the barrel axis Barrels or gun tubes characterised by the shape of the bore Grooves-Rifling Barrels or gun tubes characterised by the material (F41A 21/02 takes precedence) Barrels which have undergone surface treatment, e.g. phosphating {(F41A 21/44 takes precedence)} Barrels or gun tubes with fins or ribs, e.g. for cooling (F41G 1/42 takes precedence) specially adapted for recoil reinforcement, e.g. for training purposes Gas-expansion chambers; Barrels provided with gas-relieving ports (F41A 1/06, F41A 13/08 {and F41A 21/36} take precedence) 	23/06 23/08 23/10 23/12 23/14 23/16 23/18 23/20 23/22 23/24 23/26 23/26 23/28 23/30 23/32 23/32	 Unipods adjustable Bipods adjustable Tripods {; Mountings having at least three legs} adjustable Testing mounts Rests for supporting smallarms in non-shooting position (racks for storage A47B 81/00; racks in vehicles {B60R 7/14}) for disappearing guns on board of submarines Turret gun mountings (feeding, loading or guiding ammunition F41A 9/00; mechanical elevating or traversing systems for turret guns F41A 27/18) Mountings for transport only; Loading or unloading arrangements for guns for use with carrier vehicles (F41A 23/50 takes precedence) Wheeled-gun mountings; Endless-track gun mountings the wheels being liftable from the ground for firing with split trails (F41A 23/30, F41A 23/46 takes precedence) on wheeled or endless-track vehicles
21/04 21/06 21/08 21/10 21/12 21/14 21/16 21/18 21/20 21/22 21/24 21/26	 Composite barrels, i.e. barrels having multiple layers, e.g. of different materials Barrel liners Plural barrels Barrel junctions Insert barrels, i.e. barrels for firing reduced calibre ammunition and being mounted within the normal barrels Cartridge chambers; Chamber liners (F41A 3/74, F41A 9/46, F41A 21/04 take precedence) Arrangement of cartridge chambers lateral to the barrel axis Barrels or gun tubes characterised by the shape of the bore Grooves-Rifling Barrels or gun tubes characterised by the material (F41A 21/02 takes precedence) Barrels which have undergone surface treatment, e.g. phosphating {(F41A 21/44 takes precedence)} Barrels or gun tubes with fins or ribs, e.g. for cooling (F41G 1/42 takes precedence) specially adapted for recoil reinforcement, e.g. for training purposes Gas-expansion chambers; Barrels provided with gas-relieving ports (F41A 1/06, F41A 13/08 {and F41A 21/36} take precedence) Silencers 	23/06 23/08 23/10 23/12 23/14 23/16 23/18 23/20 23/22 23/24 23/26 23/26 23/28 23/30 23/32 23/34 23/36	 Unipods adjustable Bipods adjustable Tripods {; Mountings having at least three legs} adjustable Testing mounts Rests for supporting smallarms in non-shooting position (racks for storage A47B 81/00; racks in vehicles {B60R 7/14}) for disappearing guns on board of submarines Turret gun mountings (feeding, loading or guiding ammunition F41A 9/00; mechanical elevating or traversing systems for turret guns F41A 27/18) Mountings for transport only; Loading or unloading arrangements for guns for use with carrier vehicles (F41A 23/50 takes precedence) Wheeled-gun mountings; Endless-track gun mountings the wheels being liftable from the ground for firing with split trails (F41A 23/30, F41A 23/46 takes precedence) on wheeled or endless-track vehicles on trailers (F41A 23/42 takes precedence)
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21/04 21/06 21/08 21/10 21/12 21/14 21/16 21/18 21/20 21/22 21/24 21/26 21/28	 Composite barrels, i.e. barrels having multiple layers, e.g. of different materials Barrel liners Plural barrels Barrel junctions Insert barrels, i.e. barrels for firing reduced calibre ammunition and being mounted within the normal barrels Cartridge chambers; Chamber liners (F41A 3/74, F41A 9/46, F41A 21/04 take precedence) Arrangement of cartridge chambers lateral to the barrel axis Barrels or gun tubes characterised by the shape of the bore Grooves-Rifling Barrels or gun tubes characterised by the material (F41A 21/02 takes precedence) Barrels which have undergone surface treatment, e.g. phosphating {(F41A 21/44 takes precedence)} Barrels or gun tubes with fins or ribs, e.g. for cooling (F41G 1/42 takes precedence) specially adapted for recoil reinforcement, e.g. for training purposes Gas-expansion chambers; Barrels provided with gas-relieving ports (F41A 1/06, F41A 13/08 {and F41A 21/36} take precedence) Silencers Muzzle attachments or glands (F41A 21/26, F41A 21/30, F41A 21/46 take precedence {; for 	23/06 23/08 23/10 23/12 23/14 23/16 23/18 23/20 23/22 23/24 23/26 23/28 23/30 23/32 23/34 23/36 23/38 23/40	 Unipods adjustable Bipods adjustable Tripods {; Mountings having at least three legs} adjustable Testing mounts Rests for supporting smallarms in non-shooting position (racks for storage A47B 81/00; racks in vehicles {B60R 7/14}) for disappearing guns on board of submarines Turret gun mountings (feeding, loading or guiding ammunition F41A 9/00; mechanical elevating or traversing systems for turret guns F41A 27/18) Mountings for transport only; Loading or unloading arrangements for guns for use with carrier vehicles (F41A 23/50 takes precedence) Wheeled-gun mountings; Endless-track gun mountings the wheels being liftable from the ground for firing with split trails (F41A 23/30, F41A 23/46 takes precedence) on wheeled or endless-track vehicles on trailers (F41A 23/42 takes precedence) on motorcycles on rail vehicles
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the barrel}

22/46	T '1 1	20/00	
23/46	• Trail spades	29/00	Cleaning or lubricating arrangements (injecting
23/48	• elastic		fluids into barrels or cartridge chambers F41A 13/04
23/50	Travelling locks; Brakes for holding the gun		{; ammunition for cleaning purposes <u>F42B 5/24</u> })
	platform in a fixed position during transport	29/02	Scrapers or cleaning rods
23/52	. Base plates for gun mountings	29/04	• Lubricating, oiling or greasing means, e.g. operating
23/54	• • for mortars		during use
23/56	 Arrangements for adjusting the gun platform in 	31/00	Testing arrangements (testing mounts <u>F41A 23/16</u>)
	the vertical or horizontal position (F41A 17/10,	31/02	• for checking gun barrels
	F41A 17/12 take precedence {; ground engaging	31/02	
	vehicle fittings for lifting or supporting	33/00	Adaptations for training (adaptations of barrels for
	it <u>B60S 9/04</u> ; supports for mobile cranes		recoil reinforcement F41A 21/26); Gun simulators
	<u>B66C 23/78</u> })		(teaching or practice apparatus for gun-aiming or
23/58	Hydraulic jacks		gun-laying F41G 3/26 {; shooting games A63F 9/02;
23/60	Screw-operated jacks		military simulation <u>G09B 9/003</u> })
25/00	Gun mountings permitting recoil or return to	33/02	• Light- or radiation-emitting guns {; Light- or
20,00	battery, e.g. gun cradles; Barrel buffers or brakes		radiation-sensitive guns; Cartridges carrying light
	(recoilless guns F41A 1/08)		emitting sources, e.g. laser}
25/02	Fluid-operated systems	33/04	• Acoustical simulation of gun fire, e.g. by
25/04	• adjustable {, e.g. in relation to the elevation of the		pyrotechnic means
23/01	gun}	33/06	Recoil simulators
25/06	Friction-operated systems	35/00	Accessories or details not otherwise provided for
25/08	• adjustable	35/02	• Dust- or weather-protection caps or covers
25/10	Spring-operated systems		(protecting-caps for trigger guards F41A 17/54)
25/12	using coil springs	35/04	• Muzzle covers
25/14	adjustable	35/06	Adaptation of guns to both right and left hand use
25/16	Hybrid systems	33700	• Françairon of gains to both right and left hand use
25/18	Hydroelastic systems	99/00	Subject matter not provided for in other groups of
25/20	Hydropneumatic systems		this subclass
25/20	Bearing arrangements for the reciprocating gun-		
23/22	mount or barrel movement		
25/24	using ball or roller bearings		
25/26	Assembling or dismounting recoil elements or		
23/20	systems		
2=100	•		
27/00	Gun mountings permitting traversing or elevating		
27/02	movement, e.g. gun carriages		
27/02	 Control systems for preventing interference between the moving gun and the adjacent structure 		
27/04			
27/04	 Scatter-fire arrangements, i.e. means for oscillating guns automatically during firing 		
27/06	• Mechanical systems (F41A 27/02, F41A 27/04,		
27/00	F41A 27/30 take precedence)		
27/08	Bearings, e.g. trunnions; Brakes or blocking		
27/08	arrangements		
27/10	Bearings for supporting a pivoting gun in a		
	wall, e.g. a turret wall		
27/12	Brakes or locks for blocking traversing or		
	elevating gear in a fixed position		
27/14	Central-pivot bearings		
27/16	using raceway bearings, e.g. for supporting the		
	turret		
27/18	• • for gun turrets (<u>F41A 27/08</u> takes precedence)		
27/20	Drives for turret movements		
27/22	• Traversing gear (F41A 27/18 takes precedence)		
27/24	. Elevating gear (F41A 27/18 takes precedence)		
27/26	• Fluid-operated systems (<u>F41A 27/02</u> , <u>F41A 27/04</u> ,		
	F41A 27/30 take precedence)		
27/28	Electrically-operated systems (F41A 27/02,		
	<u>F41A 27/04</u> , <u>F41A 27/30</u> take precedence)		
27/30	 Stabilisation or compensation systems, e.g. 		
	compensating for barrel weight or wind force {on		