

1.12	GUN HEATERS	1.811	.Having umbilical-separating means
1.13	MINE-DESTROYING DEVICES	1.812	.Having safety devices for preventing premature ignition or launching
1.15	WELL PERFORATORS	1.813	.Having rocket-firing means
1.151	.Method of making	1.814	..Rocket propellant ignited by electrical means
1.16	ENGINE STARTERS	1.815	.Movable launcher
1.2	SMOKE OR RESIDUE EJECTOR	1.816	.Having tubular guide means
1.25	LUBRICANT INJECTOR	1.817	..Including a forward closure
1.34	LINE THROWING	1.818	..Including an auxiliary rocket-launching charge
1.35	TRENCH MORTARS	1.819	.Having guide means
1.3	MUZZLE LOADING	1.82	.Method of making
1.42	GUN HANDLES	5	SUBMARINE
1.51	BOMB, FLARE AND SIGNAL DROPPING	125	AUTOMATIC
1.52	.Drop grenade	126	.Plural gun, barrel or bore
1.53	.Sway braces	127	..Firing control
1.54	.Bomb displaced from exterior of plane	128	.Convertible gun operation (e.g., to nonautomatic, etc.)
1.55	.Arming device	129.01	.Regulation of speed or rate of automatic fire
1.56	.Electrical and radio releases and sighting	129.02	..By regulating burst
1.57	.Explosive releases	130	..By regulating time of return of breech block
1.58	.Shackles	131	..By regulating time of release of hammer
1.59	.Racks	132	.Firing device operation or control (e.g., full automatic, etc.)
1.6	.Timing devices	133	..Synchronizers
1.61	.Sighting	134	..Disabled at predetermined angles of fire
1.7	RECOILLESS GUN	135	..Electrical
1.701	.Having a reaction mass	136	..Triggers and/or remote control
1.702	..Barrel parts separable for loading	137	..Interlocks between firing and cartridge feeding
1.703	.Having pressure-control means	138	...Locks bolt open
1.704	.Having breech closure	139	..Semi-automatic (e.g., double sear, etc.)
1.705	..Closure has firing device	140	...Convertible to full automatic
1.706	..Cartridge-case closure	141	...Breech block, barrel or hammer disconnected
1.8	ROCKET LAUNCHING	142	...With selective safety device
1.801	.Having rocket-storage and transfer means	143	...Alternate control of hammer and breech block or barrel
1.802	..Launcher movable relative to storage means	144	...With means for disconnecting trigger and sear
1.803	..Having magazine-gate means to feed and support rocket for launching	145	...By breech block or barrel motion
1.804	..Storage means movable to facilitate launching	146	...Hammer disconnected
1.805	.Having means to transfer rocket to launcher		
1.806	.Having means restraining rocket from movement in launching direction		
1.807	..Including rocket-firing means		
1.808	..Rocket spin stabilized while restrained		
1.809	.Underwater launching		
1.81	..Rocket launched from container		

147	...Hammer cocked and released by trigger	180	.Breech block lock (positive or impositive)
148	..With selective safety device	181	..With latch
149	..With automatic sear or sear release	182	..Inertia member released lock
150	..With automatic sear or trigger safety	183	...Blow back initiated
151	..With automatic hammer	184	..Nonrectilinear breech block motion (e.g., tilting rotary, etc.)
152	...Operates breech lock	185	...Rotary and sliding
153	..Operates breech lock	186	..Nonaxial, rectilinear, breech block motion
154	..With automatic hammer cocking and/or safety means	187.01	..Sliding locking member
155	.Movable chamber type (e.g., revolver, etc.)	187.02	...Cylindrical or ball bearing
156	..Operating as gas piston and/or recoil member	188	..Rotary locking member
157	..Recoiling barrel with revolving chambers	189	..Toggle locking member
158	.Movable butt piece	190	..Pivoted locking member
159	.Combined movable barrel and gas operated	191.01	.Gas piston type
160	.Movable barrel (e.g., rotary, etc.)	191.02	..Annular piston
161	..Forwardly movable	192	..Gas piston compresses breech opening spring
162	..Rearwardly movable	193	..Gas ports and/or regulators
163	...Barrel having motion in addition to axial, rectilinear	194	.Blow back breech block
164	..With breech lock latch	195	..Pistol grip magazine
165	...Long recoil	196	...Breech slide type
166	...Nonrectilinear breech block motion	197	..Box magazine
167	...Nonaxial rectilinear breech block motion	198	.Buffers and brakes
168	...Pivoted locking member or toggle lock	199	.Receiver closures and/or breech block return means
169	..With accelerator and/or unlocking lever for breech mechanism	4.05	EXPLOSION OPENED BREECH
170	..With barrel latch	4.1	.Rotary breech block
171	..Nonrectilinear breech block motion (e.g., tilting rotary, etc.)	4.2	.Transverse sliding breech block
172	...Rotary and sliding	4.5	.Blow back breech block
173	...Sliding locking member	6	FUSE SETTERS
174	...Rotary locking member	6.5	.Combined with projecting, launching or releasing devices
175	...Toggle locking member	7	PNEUMATIC
176	...Pivoted locking member	8	.Explosive charge
177	..Barrel buffers and brakes	9	ACCELERATING
178	..Barrel return means	11	MACHINE GUNS
179	.Gas piston-type lock actuator carried by breech block (e.g., firing pin, etc.)	12	.Axially moving breech block
		13.05	.Revolving barrels
		13.1	.Revolving cylinders
		1.41	..Nonparallel bores
		14.05	MULTIPLE BARREL GUNS
		14.1	BARRELS
		14.2	.With heat exchanger
		14.3	.Flash shield
		14.4	.Recoil absorbers and climb arrestors
		14.5	.Silencers
		14.6	.Recoil increasers
		15	.Sabot strippers
			.Wound

16	.Composite	36.11	.For aircraft
14.7	.Lining, rifling, or making	36.12	.For ships
14.8	.Method of making multibore barrel	36.13	.Turret type
		36.14	..With vision slit or gun port closures
17	BREECH CLOSURES		
18	.Key locked	36.15	.On elevatable platform
19	.Screw	36.16	.Anti-aircraft type
20.2	..Interrupted	36.17	.With explosive device
20.4	...Motor operated	37.01	MOUNTS
21	...Fixed ammunition	37.02	.Anti-aircraft
22	.Transverse	37.03	.Light machine gun type
23	..Sliding and swinging	37.04	.Rifle and pistol mounts
24	..Sliding	37.05	.Mortars
25	..Swinging	37.06	.Submarine
26	.Gas checks	37.07	.Trunnion
27.11	FIRING DEVICES	37.08	.Counterbalances
27.12	.Safety	37.09	.Leveling
27.13	.Primer fired	37.11	.Locks
27.14	.Percussion firing	37.12	.Spherical or oval bearing gun support
27.3	.Gun firing actuators		
28.05	.Electric	37.13	.Bases
28.1	..Electrical and mechanical	37.14	.Reciprocating mounts
28.2	..Training and firing	37.15	.With body protecting devices
29	PRACTICE BARRELS	37.16	.Aircraft type
30	VENTS AND STOPPERS	37.17	..Power operated
31	TOMPIONS AND VALVES	37.18	..On engine
33.01	CARTRIDGE FEEDING	37.19	..On aircraft wing
33.02	.Drum magazine	37.21	..Retractable gun turret
33.03	.Movable chamber	37.22	..Multiple guns on mount
33.04	.Selective feed	38	.Disappearing gun
33.05	.With rammer separated breech block	39	..Counterpoise
33.1	.With magazine	40.01	.For field use
33.14	..Belt feed	40.02	..Wheeled mortars
33.16	...With rotary feeder	40.03	..On armored car
33.17	..With rotary feeder	40.04	..Nonshielded motor driven guns
33.2	.Belt feed	40.05	..On sleds
33.25	..With rotary feeder	40.06	..On tripods (i.e., for light guns)
33.4	.Empty shell receivers	40.07	..Liners and caissons
33.5	.Cartridge feeding auxiliary feeder	40.08	..With hitches and couplings
34	.Holders	40.09	..With training spades
35.01	.Belts	40.11	..Carriage suspended for firing
35.02	..Disintegrating type	40.12	..Traveling locks
36.01	SHIELDS	40.13	..By separate transport carriage
36.02	.Shape or composition	40.14	..Components are separable for transport
36.03	.Rotating shield	40.15	..Trail carriages and links
36.04	.For fixed structure	40.16	..Railroad type
36.05	.Body	41.01	.Training mechanisms
36.06	.Small arms attached	41.02	..Motor operated
36.07	.Transportable	41.03	...Predetermining parameters for automatic firing
36.08	..Self-propelled, e.g., tanks, etc.)	41.04	...Eliminates lag or overrun
36.09	..Wheeled	41.05	...By television monitoring

41.06 ...By light reception
 41.07 ...By radar
 41.08 ...By sound
 41.09 ...Gyroscopically or pendulum controlled
 41.11 ...Compensates for trunnion tilt
 41.12 ...By hydraulic means
 41.13 ...For scattering effect
 41.14 ...For naval gun fire control
 41.15 ...With unitary control for plural motors
 41.16 ..For relatively movable gun barrels
 41.17 ..Aiming device mounted on gun
 41.18 ..For limiting the field of fire
 41.19 ..Sights or line devices
 41.21 ...On aircraft
 41.22 ...For anti-aircraft
 200 ...Straight-line light ray type
 201Accelerometer stabilized or factored
 202Gyroscopically stabilized
 203Self adjusting gun movement compensator
 204Compensates for moving target
 205And moving craft or gun platform
 206Compensates for trunnion tilt
 42.01 .With recoil check
 42.02 ..On trail spade
 42.03 ..Fire-out-of-battery type
 43.01 ..Fluid
 43.02 ...With function of elevation
 44.01 ..Spring type
 44.02 ...Elastic type
 45 **LOADING**
 46 .Hoisting apparatus
 47 .Rammers
 1.11 **WAGING WAR**
 1.14 **EXPLOSIVE OPERATED APPARATUS (E.G., EXPLOSIVE DOOR HINGE, TOOL EXPLOSIVELY ACTUATED, BAND RELEASE, EXPANSION OF TUBE, CABLE CUTTER, EXPLOSIVELY OPERATED SPLITTING WEDGES)**
 1.4 **CHARGING MECHANISMS FOR GUNS**
 1.1 **MISCELLANEOUS**

CROSS-REFERENCE ART COLLECTIONS

901 **ARMOR (EPO)**
 902 .Reactive or dynamic armor (EPO)
 903 .Plate construction (EPO)
 904 ..Composed of more than one layer (EPO)
 905 ...Transparent bullet-proof laminate (EPO)
 906 ...Layered armor containing ceramic material (EPO)
 907 ...Ceramic layer in combination with metal layer (EPO)
 908 ...Ceramic layer in combination with additional layer made of fibers, fabrics, or plastics (EPO)
 909Additional layer being only fiber or fabric reinforced (EPO)
 910 ...Layered armor containing metal (EPO)
 911 ...All layers containing metal (EPO)
 912 ...Metal layer in combination with additional layer made of fiber, fabric or plastic (EPO)
 913additional layer being only fiber or fabric reinforced (EPO)
 914 ...Layered armor containing fiber or fabric reinforced layer (EPO)
 915Fiber or fabric reinforced layer in combination with plastic layer (EPO)
 916All layers being only fiber or fabric reinforced (EPO)
 917 ..Armor containing hard elements (e.g., plates, spheres, rods), separated from each other, the elements being connected to a further flexible layer or being embedded in a plastic or elastomer matrix (EPO)
 918 .Shields (EPO)
 919 ..Rotating shield (EPO)
 920 ..For stationary use (e.g., fortification, shelters, guard booths) (EPO)
 921 ..Personal protection gear (EPO)
 922 ...Armored, projectile or missile resistant garment (EPO)
 923Protection helmet (EPO)

- 924Steel helmet or head shield
(EPO)
- 925Plastic helmet or head
shield (EPO)
- 926 ...For personal use (i.e., hand
held shield) (EPO)
- 927Spade bayonet (i.e., useable
as a spade, bayonet or cover
against rifle fire) (EPO)
- 928 ...For small arms or light rocket
launcher (EPO)
- 929 ..Wheeled armored shield (EPO)
- 930 ..For canon, artillery or tank
(EPO)
- 931 ...Manhole cover (e.g., on tanks)
(EPO)
- 935 ..Turret (EPO)
- 936 ..Peephole, window, loophole,
observation or reconnaissance
equipment on armored vehicles,
(e.g. cameras) and covers
therefore (EPO)
- 937 ..Mounting or securing armor plate
(EPO)
- 938 ..Camouflage (i.e. means for or
method of concealment or
disguise) (EPO)
- 939 ..Flexible (e.g., fabric) covers
(e.g., screen, net) (EPO)

FOREIGN ART COLLECTIONSFOR 000 **CLASS-RELATED FOREIGN DOCUMENTS**

