

U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE

CLASSIFICATION ORDER 1889

OCTOBER 6, 2009

PROJECT MA089

**The following classification changes will be effected by this order:**

	<u>Class</u>	<u>Subclass</u>	<u>Art Unit</u>	<u>Ex'r Search Room</u>
<b>Abolished:</b>	None			
<b>Established:</b>				
Cross-Reference Art Collections:	89	901-939	3641	RND0000B15

**The following class is also impacted by this order:**

428

**This order includes the following:**

- A. CLASSIFICATION MANUAL CHANGES
- D. DEFINITION CHANGES AND NEW OR ADDITIONAL DEFINITIONS

CLASSIFICATION ORDER 1889

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PROJECT MA089

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1.12	<b>GUN HEATERS</b>	1.811	.Having umbilical-separating means
1.13	<b>MINE-DESTROYING DEVICES</b>	1.812	.Having safety devices for preventing premature ignition or launching
1.15	<b>WELL PERFORATORS</b>	1.813	.Having rocket-firing means
1.151	.Method of making	1.814	..Rocket propellant ignited by electrical means
1.16	<b>ENGINE STARTERS</b>	1.815	.Movable launcher
1.2	<b>SMOKE OR RESIDUE EJECTOR</b>	1.816	.Having tubular guide means
1.25	<b>LUBRICANT INJECTOR</b>	1.817	..Including a forward closure
1.34	<b>LINE THROWING</b>	1.818	..Including an auxiliary rocket-launching charge
1.35	<b>TRENCH MORTARS</b>	1.819	.Having guide means
1.3	<b>MUZZLE LOADING</b>	1.82	.Method of making
1.42	<b>GUN HANDLES</b>	5	<b>SUBMARINE</b>
1.51	<b>BOMB, FLARE AND SIGNAL DROPPING</b>	125	<b>AUTOMATIC</b>
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	<b>RECOILLESS GUN</b>	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	<b>ROCKET LAUNCHING</b>	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	<b>EXPLOSION OPENED BREECH</b>
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	<b>FUSE SETTERS</b>
174	...Rotary locking member	6.5	.Combined with projecting, launching or releasing devices
175	...Toggle locking member	7	<b>PNEUMATIC</b>
176	...Pivoted locking member	8	.Explosive charge
177	..Barrel buffers and brakes	9	<b>ACCELERATING</b>
178	..Barrel return means	11	<b>MACHINE GUNS</b>
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	<b>MULTIPLE BARREL GUNS</b>
		14.1	<b>BARRELS</b>
		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	<b>BREECH CLOSURES</b>	36.15	.On elevatable platform
18	.Key locked	36.16	.Anti-aircraft type
19	.Screw	36.17	.With explosive device
20.2	..Interrupted	37.01	<b>MOUNTS</b>
20.4	...Motor operated	37.02	.Anti-aircraft
21	...Fixed ammunition	37.03	.Light machine gun type
22	.Transverse	37.04	.Rifle and pistol mounts
23	..Sliding and swinging	37.05	.Mortars
24	..Sliding	37.06	.Submarine
25	..Swinging	37.07	.Trunnion
26	.Gas checks	37.08	.Counterbalances
27.11	<b>FIRING DEVICES</b>	37.09	.Leveling
27.12	.Safety	37.11	.Locks
27.13	.Primer fired	37.12	.Spherical or oval bearing gun support
27.14	.Percussion firing		
27.3	.Gun firing actuators	37.13	.Bases
28.05	.Electric	37.14	.Reciprocating mounts
28.1	..Electrical and mechanical	37.15	.With body protecting devices
28.2	..Training and firing	37.16	.Aircraft type
29	<b>PRACTICE BARRELS</b>	37.17	..Power operated
30	<b>VENTS AND STOPPERS</b>	37.18	..On engine
31	<b>TOMPIONS AND VALVES</b>	37.19	..On aircraft wing
33.01	<b>CARTRIDGE FEEDING</b>	37.21	..Retractable gun turret
33.02	.Drum magazine	37.22	..Multiple guns on mount
33.03	.Movable chamber	38	.Disappearing gun
33.04	.Selective feed	39	..Counterpoise
33.05	.With rammer separated breech block	40.01	.For field use
33.1	.With magazine	40.02	..Wheeled mortars
33.14	..Belt feed	40.03	..On armored car
33.16	...With rotary feeder	40.04	..Nonshielded motor driven guns
33.17	..With rotary feeder	40.05	..On sleds
33.2	.Belt feed	40.06	..On tripods (i.e., for light guns)
33.25	..With rotary feeder	40.07	..Liners and caissons
33.4	.Empty shell receivers	40.08	..With hitches and couplings
33.5	.Cartridge feeding auxiliary feeder	40.09	..With training spades
34	.Holders	40.11	..Carriage suspended for firing
35.01	.Belts	40.12	..Traveling locks
35.02	..Disintegrating type	40.13	..By separate transport carriage
36.01	<b>SHIELDS</b>	40.14	..Components are separable for transport
36.02	.Shape or composition	40.15	..Trail carriages and links
36.03	.Rotating shield	40.16	..Railroad type
36.04	.For fixed structure	41.01	.Training mechanisms
36.05	.Body	41.02	..Motor operated
36.06	.Small arms attached	41.03	...Predetermining parameters for automatic firing
36.07	.Transportable	41.04	...Eliminates lag or overrun
36.08	..Self-propelled, e.g., tanks, etc.)	41.05	...By television monitoring
36.09	..Wheeled		

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  
 201 ....Accelerometer stabilized or  
           factored  
 202 ....Gyroscopically stabilized  
 203 ....Self adjusting gun movement  
           compensator  
 204 ....Compensates for moving  
           target  
 205 .....And moving craft or gun  
           platform  
 206 ....Compensates 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)  
 909     ....Additional 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)  
 913     ....additional layer being only  
           fiber or fabric reinforced  
           (EPO)  
 914     ...Layered armor containing fiber  
           or fabric reinforced layer  
           (EPO)  
 915     ....Fiber or fabric reinforced  
           layer in combination with  
           plastic layer (EPO)  
 916     ....All 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)  
 923     ....Protection helmet (EPO)

- 924 .....Steel helmet or head shield  
(EPO)
- 925 .....Plastic helmet or head  
shield (EPO)
- 926 ...For personal use (i.e., hand  
held shield) (EPO)
- 927 ....Spade 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 COLLECTIONS**FOR 000 **CLASS-RELATED FOREIGN DOCUMENTS**

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D. CHANGES TO THE DEFINITIONS

## CLASS 89 - ORDNANCE

Definitions Established:**901 ARMOR (EPO):**

Cross-reference art collection indented under the class definition including devices adapted to render protection to an ordnance device or to the ordnance operating personnel.

- (1) Note. The subject matter in this subclass is substantially the same in scope as ECLA (F41H5/00).
- (2) Note. Included in this and indented subclasses are devices which also screen, cover, shroud, or cloak.

## SEE OR SEARCH CLASS:

- 2, Apparel, subclass 2.5 for devices specially designed to resist penetration, as by projectiles, swords, knives, etc., where (1) features of shape for fitting the body or (2) means for wearing or otherwise securing the device to the body, are claimed.
- 105, Railway Rolling Stock, subclass 394 for railway cars, usually metallic, designed to be bullet-proof and provided with defensive means and protective devices for guarding against train robbery.
- 109, Safes, Bank Protection, or a Related Device, subclass 9, for guard booths; subclass 49.5 for shields and protectors, and subclasses 58-87, for enclosures and walls.
- 114, Ships, subclasses 9-15, for warships having armor.
- 152, Resilient Tires and Wheels, subclasses 167-207 for armored resilient tires.
- 244, Aeronautics and Astronautics, subclass 121 for shields and other protective devices which are an essential part of the aircraft structure.
- 428, Stock Material or Miscellaneous Articles, cross-reference art collection 911 for penetrating resistant layer and cross-reference art collection 919 for camouflaged articles.

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D. CHANGES TO THE DEFINITIONS**902 Reactive or dynamic armor (EPO):**

Subject matter indented under cross-reference art collection 901 including an armor device which senses a threat and actively responds to block, destroy, disable, divert or intercept the threat either prior to or during impact.

- (1) Note. The subject matter in this subclass is substantially the same in scope as ECLA (F41H5/007).

**903 Plate construction (EPO):**

Subject matter indented under cross-reference art collection 901 including an armor device wherein the particular structural makeup or the particular material out of which the armor is made is specified and is of particular significance.

- (1) Note. The subject matter in this subclass is substantially the same in scope as ECLA (F41H5/02)

SEE OR SEARCH CLASS:

- 109, Safes, Bank Protection, or Related Device subclasses 58-87 for enclosure and wall structure.

**904 Composed of more than one layer (EPO):**

Subject matter under cross-reference art collection 903 including an armor device wherein the structure of the armor comprises two or more thicknesses, courses or folds laid over one another.

- (1) Note. The subject matter in this subclass is substantially the same in scope as ECLA (F41H5/04).\

SEE OR SEARCH CLASS:

- 114, Ships, subclass 12 for plating on warships composed of more than one layer.

- 428, Stock Material or Miscellaneous Articles, Cross-Reference Art Collection 911 for stock material having a penetration resistant layer.

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D. CHANGES TO THE DEFINITIONS**905 Transparent bullet-proof laminate (EPO):**

Subject matter under cross-reference art collection 904 including an armor device comprising united superimposed layers of a material, each of which have the property of transmitting light without appreciable scattering so that the bodies lying beyond are entirely visible, at least one of the layers being resistant to penetration from a round or elongated missile designed to be fired from a firearm.

- (1) Note. The subject matter of this subclass is substantially the same in scope as ECLA (F41H5/04B).

SEE OR SEARCH CLASS:

- 428, Stock Material or Miscellaneous Articles, subclass 426+ for transparent laminates, per se.

**906 Layered armor containing ceramic material (EPO):**

Subject matter under cross-reference art collection 904 including an armor device comprising two or more thicknesses, courses or folds laid over one another, at least one of the thicknesses, courses, or folds containing clay.

- (1) Note. The subject matter of this subclass is substantially the same in scope as ECLA (F41H5/04C).

**907 Ceramic layer in combination with metal layer (EPO):**

Subject matter under cross-reference art collection 906 including an armor device comprising two or more thicknesses, courses or folds laid over one another, at least one of the thicknesses, courses, or folds containing clay and at least a second thickness, course, or folds contains a material having a continuous phase of any element of the periodic table except hydrogen, a noble gas, a halogen, a chalcogen (oxygen, sulfur, selenium, tellurium), nitrogen, phosphorus, carbon and boron.

- (1) Note. The subject matter of this subclass is substantially the same in scope as ECLA (F41H5/04C2).
- (2) Note. Elemental silicon is considered to be a metal, but a silicon compound is not considered to be a metal compound on the basis of silicon content.

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D. CHANGES TO THE DEFINITIONS**908 Ceramic layer in combination with additional layer made of fiber, fabric, or plastic (EPO):**

Subject matter under cross-reference art collection 906 including an armor device comprising two or more thicknesses, courses or folds laid over one another, at least one of the thicknesses, courses, or folds containing clay and at least a second thickness, course, or fold contains either (1) a slender and elongated natural or synthetic filament (as of wool, cotton, asbestos, gold, glass, or rayon) capable of being spun into yarn (2) cloth or a material that resembles cloth, or (3) organic, synthetic or processed material that is molded, cast, extruded, or drawn into objects, films or filaments.

- (1) Note. The subject matter of this subclass is substantially the same in scope as ECLA (F41H5/04C4).

**909 Additional layers being only fiber or fabric reinforced (EPO):**

Subject matter under cross-reference art collection 908 including an armor device comprising two or more thicknesses, courses or folds laid over one another, one of the thicknesses, courses, or folds containing clay and all the other thicknesses, courses, or folds contain either (1) a slender and elongated natural or synthetic filament (as of wool, cotton, asbestos, gold, glass, or rayon) capable of being spun into yarn or (2) cloth or a material that resembles cloth as the sole source of strengthening.

- (1) Note. The subject matter of this subclass is substantially the same in scope as ECLA (F41H5/04C4B).

**910 Layer armor containing metal (EPO):**

Subject matter under cross-reference art collection 904 including an armor device comprising two or more thicknesses, courses or folds laid over one another, at least one of the thicknesses, courses, or folds containing a material having a continuous phase of any element of the periodic table except hydrogen, a noble gas, a halogen, a chalcogen (oxygen, sulfur, selenium, tellurium), nitrogen, phosphorus, carbon and boron.

- (1) Note. The subject matter of this subclass is substantially the same in scope as ECLA (F41H5/04D).

SEE OR SEARCH THIS CLASS, SUBCLASS:

907, for layered armor having metallic layers in combination with ceramic layers.

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D. CHANGES TO THE DEFINITIONS**911 All layers containing metal (EPO):**

Subject matter under cross-reference art collection 910 including an armor device comprising two or more thicknesses, courses or folds laid over one another, at least one of the thicknesses, courses, or folds, each and every thickness, course or fold containing a material having a continuous phase of any element of the periodic table except hydrogen, a noble gas, a halogen, a chalcogen (oxygen, sulfur, selenium, tellurium), nitrogen, phosphorus, carbon and boron.

- (1) Note. The subject matter of this subclass is substantially the same in scope as ECLA (F41H5/04D2).

SEE OR SEARCH CLASS:

- 428, Stock Material or Miscellaneous Articles, subclass 426+ for stock material having at least two different, contiguous layers or portions, each having a matrix or continuous phase of free metal.

**912 Metal layer in combination with additional layer made of fiber, fabric or plastic (EPO):**

Subject matter under cross-reference art collection 910 including an armor device comprising two or more thicknesses, courses or folds laid over one another, at least one of the thicknesses, courses, or folds containing a material having a continuous phase of any element of the periodic table except hydrogen, a noble gas, a halogen, a chalcogen (oxygen, sulfur, selenium, tellurium), nitrogen, phosphorus, carbon and boron and at least a second thickness, course, or fold contains (1) a slender and elongated natural or synthetic filament (as of wool, cotton, asbestos, gold, glass, or rayon) capable of being spun into yarn (2) cloth or a material that resembles cloth, or (3) organic, synthetic or processed material that is molded, cast, extruded, or drawn into objects, films or filaments.

- (1) Note. The subject matter of this subclass is substantially the same in scope as ECLA (F41H5/04D4).

**913 Additional layers being only fiber or fabric reinforced (EPO):**

Subject matter under cross-reference art collection 912 including an armor device comprising two or more thicknesses, courses or folds laid over one another, at least one of the thicknesses, courses, or folds containing a material having a continuous phase of any element of the periodic table except hydrogen, a noble gas, a halogen, a chalcogen (oxygen, sulfur, selenium, tellurium), nitrogen, phosphorus, carbon and boron and all other thicknesses, courses, or folds contain either (1) a slender and elongated natural or synthetic filament (as of wool, cotton, asbestos, gold, glass, or rayon) capable of being

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D. CHANGES TO THE DEFINITIONS

spun into yarn or (2) cloth or a material that resembles cloth as the sole source of strengthening.

- (1) Note. The subject matter of this subclass is substantially the same in scope as ECLA (F41H5/04D4B).

**914 Layered armor containing fiber or fabric reinforced layer (EPO):**

Subject matter under cross-reference art collection 904 including an armor device comprising two or more thicknesses, courses or folds laid over one another, at least one of the thicknesses, courses, or folds containing either (1) a slender and elongated natural or synthetic filament (as of wool, cotton, asbestos, gold, glass, or rayon) capable of being spun into yarn or (2) cloth or a material that resembles cloth.

- (1) Note. The subject matter of this subclass is substantially the same in scope as ECLA (F41H5/04F).

SEE OR SEARCH THIS CLASS, SUBCLASS:

908, for armor containing a fiber or fabric reinforced layer in combination with a ceramic layer.

912, for armor containing a fiber or fabric reinforced layer in combination with a ceramic layer.

**915 Fiber or fabric reinforced layer in combination with plastic layer (EPO):**

Subject matter under cross-reference art collection 914 including an armor device comprising two or more thicknesses, courses or folds laid over one another, at least one of the thicknesses, courses, or folds containing either (1) a slender and elongated natural or synthetic filament (as of wool, cotton, asbestos, gold, glass, or rayon) capable of being spun into yarn or (2) cloth or a material that resembles cloth, and at least a second thickness, course, or fold contains organic, synthetic or processed material that is molded, cast, extruded, or drawn into objects, films or filaments.

- (1) Note. The subject matter of this subclass is substantially the same in scope as ECLA (F41H5/04F2).

**916 All layers being only fiber or fabric reinforced (EPO):**

Subject matter under cross-reference art collection 914 including an armor device comprising two or more thicknesses, courses or folds laid over one another, each and every one of the thicknesses, courses, or folds containing either (1) a slender and elongated natural or synthetic filament (as of wool, cotton, asbestos, gold, glass, or rayon) capable of being spun into yarn or (2) cloth or a material that resembles cloth as the sole source of strengthening.

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- (1) Note. The subject matter of this subclass is substantially the same in scope as ECLA (F41H5/04F4).

**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 an elastomeric matrix (EPO):**

Subject matter under cross-reference art collection 903 including an armor device comprising a number of discreet constituent parts which are not easily penetrated and which are interconnected by means of (1) attachment to a material which capable of being bent or (2) enclosed in a supporting material of rubber or a rubber-like substance or an organic, synthetic or processed substance material that is molded, cast, or extruded.

- (1) Note. The subject matter of this subclass is substantially the same in scope as ECLA (F41H5/04G).

**918 Shields (EPO):**

Subject matter under cross-reference art collection 901 including an armored screen adapted to render protection to an ordnance device or to the ordnance operating personnel.

- (1) Note. The subject matter of this subclass is substantially the same in scope as ECLA (F41H5/06).

SEE OR SEARCH CLASS:

114, Ships, subclass 14 for screens or shields on warships.

**919 Rotating shield (EPO):**

Subject matter under cross-reference art collection 918 including an armored screen which revolves about an axis.

- (1) Note. The subject matter of this subclass is substantially the same in scope as ECLA (F41H5/18).

**920 For stationary use (e.g., fortification, shelters, guard booths) (EPO):**

Subject matter under cross-reference art collection 918 including an armored screen which is installed on a non-moveable structure, e.g., hanger, building, etc.

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- (1) Note. The subject matter of this subclass is substantially the same in scope as ECLA (F41H5/24).

SEE OR SEARCH CLASS:

- 109, Safes, Banks Protection or a Related Device, for banks, stores, or other related institutions, having means to protect or defend them and their personnel against a burglary or robbery attack, specifically subclass 9 for guard booths, subclass 49.5 for shields and protectors, and subclasses 58-87 for enclosures and walls.

**921 Personal protection gear (EPO):**

Subject matter under cross-reference art collection 918 including an armored screen which is specifically adapted to shield the human body from injury or death.

- (1) Note. The subject matter of this subclass is substantially the same in scope as ECLA (F41H1/00).

SEE OR SEARCH CLASS:

- 109, Safes, Banks Protection, or a Related Device subclass 49.5 for banks, stores, or other related institutions, having means to protect personnel against a burglary or robbery attack.

**922 Armored, projectile or missile resistant garment (EPO):**

Subject matter under cross-reference art collection 921 including an armored screen which is specifically adapted to fit the human body, e.g., jackets, helmets, shoes, etc.

- (1) Note. The subject matter of this subclass is substantially the same in scope as ECLA (F41H1/02)

SEE OR SEACH CLASS:

- 2, Apparel, subclass 2.5 for articles of clothing specially designed to resist penetration, as by projectiles, swords, knives, etc., where (1) features of shape for fitting the body or (2) means for wearing or otherwise securing the device to the body, are claimed.

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Subject matter under cross-reference art collection 922 including an armored screen which is specifically adapted to be worn on and shield the head.

- (1) Note: The subject matter of this subclass is substantially the same in scope as ECLA (F41H1/04)

SEE OR SEARCH CLASS:

- 2, Apparel, subclass 6.6 for soldier's helmets and subclasses 410+ for a device wherein significance is attributed to means in or on a head covering or helmet that is intended to protect the head of a wearer, or at least a portion of the head..

**924 Steel helmet or head shield (EPO):**

Subject matter under cross-reference art collection 923 including a protection helmet which is composed of a commercial iron that contains carbon in any amount up to about 1.7 percent as an essential alloying constituent and is malleable when under suitable conditions.

- (1) Note. Steel is distinguished from cast iron by its malleability and lower carbon content.
- (2) Note. The subject matter of this subclass is substantially the same in scope as ECLA (F41H1/06).

**925 Plastic helmet or head shield (EPO):**

Subject matter under cross-reference art collection 923 including a protection helmet which is composed of organic, synthetic or processed material that is molded, cast, extruded, or drawn into objects, films or filaments.

- (1) Note. The subject matter of this subclass is substantially the same in scope as ECLA (F41H1/08).

**926 For personal use (i.e., handheld shield) (EPO):**

Subject matter under cross-reference art collection 921 including An armored shield which is moved into a protection position by the arms or hands of the user.

- (1) Note. The subject matter of this subclass is substantially the same in scope as ECLA (F41H5/08).

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Subject matter under cross-reference art collection 926 including an armored shield which can be alternately used as (1) a digging implement, (2) a blade made to be attached at the muzzle end of a shoulder arm and used in hand-to-hand combat (3) or as a personal shield against incoming projectiles.

- (1) Note. The subject matter of this subclass is substantially the same in scope as ECLA (F41H5/10).

**928 For small arms or light rocket launcher (EPO):**

Subject matter under cross reference art collection 918 including an armored shield adapted to be installed on a weapon which may be carried by an individual operator.

- (1) Note. A small arm is a firearm of small caliber or (mm), including pistols, rifles, machine guns and shot guns. The maximum caliber or (mm) may vary up to and include 30 caliber.
- (2) Note. The subject matter of this subclass is substantially the same in scope as ECLA (F41H5/12).

**929 Wheeled armored shield (EPO):**

Subject matter under cross-reference art collection 918 including an armored shield wherein the ordnance protector is provided with wheels for mobility in order to move it to a desired location.

- (1) Note. The subject matter of this subclass is substantially the same in scope as ECLA (F41H5/14)

**930 For cannon, artillery or tank (EPO):**

Subject matter under cross-reference art collection 918 including an armored shield which provides protection to a large caliber, crew served firearm (e.g., guns howitzers, rockets) or to an enclosed heavily armed combat vehicle supported, driven, and steered by caterpillar treads.

- (1) Note. The subject matter of this subclass is substantially the same in scope as ECLA (F41H5/16).

**931 Manhole cover (e.g., on tanks) (EPO):**

Subject matter under cross-reference art collection 930 including an armored shield protecting a hole through which a man may gain access to an underground or enclosed structure.

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- (1) Note. The subject matter of this subclass is substantially the same in scope as ECLA (F41H5/22).

**935 Turret (EPO):**

Subject matter under cross-reference art collection 918 including an armored shield comprising a dome-shaped or cylindrical structure having observations slits or gun ports and mounted on a fixed or mobile structure, e.g., tank, armored vehicle, building aircraft, etc.

- (1) Note. The subject matter of this subclass is substantially the same in scope as ECLA (F41H5/20).

**936 Peephole, window, loophole, observation or reconnaissance equipment on armored vehicles (e.g. cameras and covers therefore) (EPO):**

Subject matter under cross-reference art collection 901 including a small opening located on an armored conveyance through which small fire arms may be discharged or other openings or devices located on an armor protected mode of conveyance which allow for seeing outside that conveyance or to otherwise conduct an exploratory military survey of enemy territory.

- (1) Note. The subject matter of this subclass is substantially the same in scope as ECLA (F41H5/26).

**937 Mounting or securing armor plate (EPO):**

Subject matter under cross-reference art collection 901 including devices comprising structure for supporting or fastening armor in place.

- (1) Note. The subject matter of this subclass is substantially the same in scope as ECLA (F41H5/013).

SEE OR SEARCH THIS CLASS, SUBCLASS:

37.01, and the search notes thereunder for mounts for other ordnance-type devices.

**938 Camouflage (i.e., means for or method of concealment or disguise) (EPO):**

Subject matter under cross-reference art collection 901 including devices which screen, cover, shroud, or cloak in order to prevent disclosure or recognition.

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- (1) Note. The subject matter of this subclass is substantially the same in scope as ECLA (F41H3/00).

SEE OR SEARCH CLASS:

114, Ships, subclass 15 for concealment on warships.

**939 Flexible (e.g., fabric) cover (e.g., screen, net) (EPO):**

Subject matter under cross-reference art collection 938 including camouflage devices which are capable of being bent repeatedly and are meant to overlay the object to be hidden.

- (1) Note. The subject matter of this subclass is substantially the same in scope as ECLA (F41H3/02).

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CLASS 428 – STOCK MATERIAL OR MISCELLANEOUS ARTICLES

Definitions Modified:

Subclass 911: Under SEE OR SEARCH CLASS:

Delete:

The reference to Class 89

Insert:

89, Ordnance, subclass 901 for a deflecting or penetration-resistant shield not elsewhere provided for; and see the search notes to that subclass.