CPC COOPERATIVE PATENT CLASSIFICATION

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

WEAPONS; BLASTING

F41 WEAPONS

(NOTES omitted)

F41G WEAPON SIGHTS; AIMING (optical aspects thereof <u>G02B</u>)

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	Sighting devices (for indirect laying of fire <u>F41G 3/16;</u> bombsights <u>F41G 3/24</u> {; structurally associated with laser telemeters <u>F41G 3/065;</u>	1/393	• Mounting telescopic sights on ordnance; Transmission of sight movements to the associated gun
	mounting tubular or beam shaped aiming devices on firearms <u>F41G 11/001</u> })	1/3935	• • {Transmission of sight movements to the associated gun}
1/01	 characterised by the visual combination effect of the respective geometrical forms of fore and rear sight (F41G 1/42 takes precedence) 	1/40	• Periscopic sights specially adapted for smallarms or ordnance (periscopic sights in general <u>G02B</u>); Supports or mountings therefor
1/02	• Foresights	1/41	Mounting periscopic sights on smallarms
1/027	• • with lens	1/42	• Tube sights; Bar sights {; Combinations of tubular
1/033	• • adjustable		fore and rearsights}
1/04	. Protection means therefor	1/425	• • {Bar sights}
1/06	• Rearsights	1/44	. Spirit-level adjusting means, e.g. for correcting tilt;
1/065	• • {Protection means therefor (<u>F41G 1/04</u> takes		{Means for indicating or correcting tilt or cant}
	precedence)}	1/46	for particular applications
1/08	• • with aperture {; tubular or of ring form; Peep	1/467	• • for bows
	sights (<u>F41G 1/42</u> takes precedence)}	1/473	• for lead-indicating or range-finding, e.g. for use
1/10	• • with notch		with rifles or shotguns
1/12	• • with line or mark other than notch	1/48	• • for firing grenades from rifles
1/14	• • with lens	1/50	• • for trench mortars {or for other mortars}
1/16	Adjusting mechanisms therefor; Mountings therefor	1/52	• for rifles or shotguns having two or more barrels, or adapted to fire different kinds of ammunition,
1/17	Convertible sights, i.e. sets of two or more		e.g. ball or shot
	sights brought into the sight line optionally	1/54	• Devices for testing or checking {; Tools for
1/18	Clicking-indicators with spring detents	1 (5 4 5	adjustment of sights}
1/20	coarse and fine	1/545	• • {Tools for adjustment of sights}
1/22	Friction clamps	3/00	Aiming or laying means (sighting devices
1/24	rack-and-pinion; lever; linkwork		F41G 1/00; determining direction, distance or velocity
1/26	• • • SCREW		by use of radio or other waves G01S; computers G06;
1/28	wedge; cam; eccentric		antennas <u>H01Q</u>)
1/30	• Reflecting-sights specially adapted for smallarms or ordnance (reflecting-sights in general <u>G02B</u>)	3/005	• {with means for correcting the parallax between the sighting means and the muzzle axis}
1/32	• Night sights, e.g. luminescent {(optical aspects of	3/02	• using an independent line of sight
	sighting devices <u>G02B 23/00</u> , <u>G02B 27/00</u>)}	3/04	• for dispersing fire from a battery {; for controlling
1/34	• • combined with light source, e.g. spot light		spread of shots; for coordinating fire from spaced
1/345	• • { for illuminating the sights }		weapons}
1/35	• • • for illuminating the target {, e.g. flash lights}	3/06	• with rangefinder (rangefinders per se G01C)
1/36	• • • with infrared light source	3/065	• • {Structural association of sighting-devices with
1/38	Telescopic sights specially adapted for smallarms		laser telemeters}
	or ordnance (telescopic sights in general G02B);	3/08	• with means for compensating for speed, direction,
	Supports or mountings therefor		temperature, pressure, or humidity of the
1/383	• • {Protection means therefor}		atmosphere (measuring <u>G01</u>)
1/387	• • Mounting telescopic sights on smallarms	3/10	• with means for compensating for canting of the trunnions

F41G

3/12	• with means for compensating for muzzle velocity or
	powder temperature {with means for compensating
.	for gun vibrations}
3/14	Indirect aiming means
3/142	• {based on observation of a first shoot; using a
	simulated shoot (training $F41G 3/26$)
3/145	• • {using a target illuminator}
3/147	• {based on detection of a firing weapon}
3/16	• Sighting devices adapted for indirect laying of
2/165	fire
3/165	• • { using a TV-monitor }
3/18	Auxiliary target devices adapted for indirect laying of fire
3/20	• specially adapted for mountain artillery
3/20	 specially adapted for mountain artificity for vehicle-borne armament, e.g. on aircraft
3/22	 . {Helmet sighting systems}
3/223	Greenet signing systems Bombsights
3/24	
5/20	Teaching or practice apparatus for gun-aiming or gun-laying {(shooting games <u>A63F 9/02;</u> light- or
	radiation-emitting guns <u>F41A 33/02</u> ; targets therefor
	<u>F41J</u> ; responders, transponders for radar, sonar,
	lidar <u>G01S 13/767</u> , <u>G01S 15/74</u> , <u>G01S 17/74</u>)}
3/2605	• • {using a view recording device cosighted with the
	gun (<u>F41G 3/2616</u> takes precedence)}
3/2611	• • {coacting with a TV-monitor}
3/2616	• • {using a light emitting device}
3/2622	• • • { for simulating the firing of a gun or the
	trajectory of a projectile }
3/2627	• • • • {Cooperating with a motion picture
	projector}
3/2633	•••• {using a TV type screen, e.g. a CRT,
	displaying a simulated target}
3/2638	••••• {giving hit coordinates by means of
	raster control signals, e.g. standard light
2/2644	pen}
3/2644	• • • {Displaying the trajectory or the impact point of a simulated projectile in the gunner's
	sight}
3/265	• • • • { with means for selecting or varying the
5/205	shape or the direction of the emitted beam}
3/2655	• • • • {in which the light beam is sent from the
	weapon to the target}
3/2661	• • • • {in which the light beam is sent from the
	target to the weapon (F41G 3/2638 takes
	precedence)}
3/2666	• • • • { with means for selecting or varying PRF or
	time coding of the emitted beam}
3/2672	••••• {using PRF adapted receiver}
3/2677	••••• {with PRF determination}
3/2683	• • • { with reflection of the beam on the target
	back to the weapon}
3/2688	• • • • {using target range measurement, e.g. with
	a laser rangefinder}
3/2694	• • • {for simulating a target $(\underline{F41G 3/2627} \text{ takes})$
2/20	precedence; moving targets per se F41J 9/00)}
3/28	Small-scale apparatus (relief models or maps G09B)
3/30	• • Gun-laying apparatus
3/30	 Out-taying apparatus Devices for testing or checking
3/323	 for checking the angle between the muzzle axis
51523	of the gun and a reference axis, e.g. the axis of the
	associated sighting device (testing alignment of
	axes in general <u>G01B 11/27</u>)

3/326	• {for checking the angle between the axis of the gun sighting device and an auxiliary measuring device (F41G 3/323 takes precedence)}
5/00	Elevating or traversing control systems for guns ({means for inhibiting firing in a specified direction <u>F41A 17/08</u> }; gun mountings permitting traversing or elevating movement, e.g. gun carriages, <u>F41A 27/00</u> ; computers <u>G06</u>)
5/02	• using only mechanical means for remote control
5/04	 using hydraulic means for remote control
5/06	 using electric means for remote control
5/08	• Ground-based tracking-systems for aerial targets
5/12	 acoustically influenced
5/14	• for vehicle-borne guns
5/16	• gyroscopically influenced
5/18	• Tracking systems for guns on aircraft
5/20	• for guns on ships
5/22	to compensate for rolling or pitching
5/24	• for guns on tanks
5/26	• Apparatus for testing or checking
7/00	Direction control systems for self-propelled missiles (flight control <u>B64C</u> , <u>G05D 1/00</u> {; counter- measures against guided missiles <u>F41H 11/02</u> ; spin-
	stabilised missiles <u>F42B 10/26</u> ; self-propelled or guided missiles having direction control systems only installed aboard <u>F42B 15/01</u> ; rocket torpedoes <u>F42B 17/00</u> ; marine torpedoes or sea-mines having self-propulsion means <u>F42B 19/00</u> ; locating by use of radio or other waves <u>G01S</u> ; computing aspects <u>G06</u>)
7/001	• {Devices or systems for testing or checking}
7/002	 (bettees of systems for testing of checking) {target simulators}
7/003	 . { for seekers using radio waves }
7/004	• • {for infrared seekers}
7/005	• { for testing benches or sets }
7/006	• {Guided missiles training or simulation devices}
7/007	• {Preparatory measures taken before the launching of the guided missiles}
7/008	• {Combinations of different guidance systems}
7/20	 based on continuous observation of target position
7/22	Homing guidance systems
7/2206	• • • {using a remote control station}
7/2213	• • • { maintaining the axis of an orientable seeking head pointed at the target, e.g. target seeking gyro}
7/222	• • • {for spin-stabilized missiles}
7/2226	• • • {comparing the observed data with stored target data, e.g. target configuration data}
7/2233	• • {Multimissile systems}
7/224	 {Deceiving or protecting means (jamming or anti-jamming of radio-wave systems in general <u>G01S 7/36, G01S 7/38</u>; defense installations in general <u>F41H 11/02</u>; chaff dispensers F42B 12/70)}
7/2246	• • • {Active homing systems, i.e. comprising both a transmitter and a receiver}
7/2253	• • • {Passive homing systems, i.e. comprising a receiver and do not requiring an active illumination of the target}
7/226	• • • {Semi-active homing systems, i.e. comprising a receiver and involving auxiliary illuminating means, e.g. using auxiliary guiding missiles}

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7/2266	
7/2266	• • • {Systems comparing signals received from a base station and reflected from the target}
7/2273	 {characterised by the type of waves}
7/228	 {using acoustic waves, e.g. for torpedoes}
7/2286	• • • {using radio waves}
7/2293	• • • {using electromagnetic waves other than radio waves}
7/24	Beam riding guidance systems (conical-scan beam beacons therefor G01S 1/42)
7/26	Optical guidance systems
7/263	• • • • • • • • • • • • • • • • • • •
7/266	••••• {for spin-stabilized missiles}
7/28	Radio guidance systems
7/30	Command link guidance systems {(homing <u>F41G 7/2206</u>)}
7/301	• • • {Details}
7/303	•••• {Sighting or tracking devices especially
	provided for simultaneous observation of the
	target and of the missile}
7/305	• • • { for spin-stabilized missiles }
7/306	• • • • {for transmitting guidance signals;
	(<u>F41G 7/308</u> takes precedence)}
7/308	• • • • { for guiding a plurality of missiles }
7/32	• • • for wire-guided missiles
7/34	• based on predetermined target position data
7/343	• • {comparing observed and stored data of target position or of distinctive marks along the path towards the target}
7/346	 • {using global navigation satellite systems, e.g. GPS, GALILEO, GLONASS}
7/36	• • using inertial references
	U
9/00	Systems for controlling missiles or projectiles, not
9/00 9/002	Systems for controlling missiles or projectiles, not provided for elsewhere
9/002	 Systems for controlling missiles or projectiles, not provided for elsewhere {for guiding a craft to a correct firing position (for bombing control F41G 9/02)}
9/002 9/004	 Systems for controlling missiles or projectiles, not provided for elsewhere {for guiding a craft to a correct firing position (for bombing control F41G 9/02)} . {Training or teaching apparatus therefor}
9/002 9/004 9/006	 Systems for controlling missiles or projectiles, not provided for elsewhere {for guiding a craft to a correct firing position (for bombing control F41G 9/02)} {Training or teaching apparatus therefor} {for torpedo launchers (torpedo launching-apparatus F41F 3/08)}
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9/002 9/004 9/006 9/008	 Systems for controlling missiles or projectiles, not provided for elsewhere {for guiding a craft to a correct firing position (for bombing control F41G 9/02)} {Training or teaching apparatus therefor} {for torpedo launchers (torpedo launching-apparatus F41F 3/08)} {Means for controlling firing of torpedoes; Torpedo directors (acoustic homing F41G 7/228)} for bombing control (bombsights F41G 3/24)
9/002 9/004 9/006 9/008 9/02 9/025	 Systems for controlling missiles or projectiles, not provided for elsewhere {for guiding a craft to a correct firing position (for bombing control F41G 9/02)} {Training or teaching apparatus therefor} {for torpedo launchers (torpedo launching-apparatus F41F 3/08)} {Means for controlling firing of torpedoes; Torpedo directors (acoustic homing F41G 7/228)} for bombing control (bombsights F41G 3/24) {Training or teaching apparatus therefor}
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9/002 9/004 9/006 9/008 9/02 9/025 11/00 11/001	 Systems for controlling missiles or projectiles, not provided for elsewhere {for guiding a craft to a correct firing position (for bombing control F41G 9/02)} {Training or teaching apparatus therefor} {for torpedo launchers (torpedo launching-apparatus F41F 3/08)} {Means for controlling firing of torpedoes; Torpedo directors (acoustic homing F41G 7/228)} for bombing control (bombsights F41G 3/24) {Training or teaching apparatus therefor} Details of sighting or aiming apparatus; Accessories {(tools for adjustment of sights F41G 1/545)} {Means for mounting tubular or beam shaped sighting or aiming devices on firearms} {Mountings with recoil absorbing means} {Mountings with a dove tail element, e.g.
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