F41G  WEAPON SIGHTS; AIMING (optical aspects thereof G02B)

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


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 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

3/22 . . . for vehicle-borne armament, e.g. on aircraft

3/225 . . . [Helmet sighting systems]

3/24 . . . Bombsights

3/26 . . . Teaching or practice apparatus for gun-aiming or gun-laying (shooting games A63F 9/02; light- or radiation-emitting guns F41A 33/02; targets therefor F41J; responders, transponders for radar, sonar, lidar G01S 13/767, G01S 15/74, G01S 17/74)

3/2605 . . . [using a view recording device cosighted with the gun (F41G 3/2616 takes precedence)]

3/2611 . . . [coating 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 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 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 (F41G 3/2627 takes precedence; moving targets per se F41J 9/00)]

3/28 . . Small-scale apparatus (relief models or maps G09B)

3/30 . . Gun-laying apparatus

3/32 . . Devices for testing or checking

3/323 . . . . [for checking the angle between the muzzle axis of the gun and a reference axis, e.g. the axis of the associated sighting device (testing alignment of axes in general G01B 11/27)]

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 F41A 17/08]; gun mountings permitting traversing or elevating movement, e.g. gun carriages, F41A 27/00; computers G06)

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 B64C, G05D 1/00; countermeasures against guided missiles F41H 11/02; spin-stabilised missiles F42B 10/26; self-propelled or guided missiles having direction control systems only installed aboard F42B 15/01; rocket torpedoes F42B 17/00; marine torpedoes or sea-mines having self-propulsion means F42B 19/00; locating by use of radio or other waves G01S; computing aspects G06)

7/001 . . . (Devices or systems for testing or checking)

7/002 . . . [target simulators]

7/003 . . . . [for seekers using radio waves]

7/004 . . . . [for infra-red 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 gyros]

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 G01S 7/36; G01S 7/38; defense installations in general F41H 11/02; 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]
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 . . . [Means for producing guidance beams]
7/266 . . . . [for spin-stabilized missiles]
7/28 . . . Radio guidance systems
7/30 . . Command link guidance systems ([homing F41G 7/2206])
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; (F41G 7/308 takes precedence)]
7/308 . . . . . [for guiding a plurality of missiles]
7/32 . . . . . for wire-guided missiles

WARNING
Group F41G 7/32 is incomplete pending reclassification of documents from groups F42B 19/01 and F42B 19/10.
Groups F41G 7/32, F42B 19/01 and F42B 19/10 should be considered in order to perform a complete search.

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

9/00 Systems for controlling missiles or projectiles, not provided for elsewhere
9/002 . . . [for guiding a craft to a correct firing position (for bombing control F41G 9/02)]
9/004 . . . [Training or teaching apparatus therefor]
9/006 . . . . [for torpedo launchers (torpedo launching-apparatus F41F 3/08)]
9/008 . . . [Means for controlling firing of torpedoes; Torpedo directors (acoustic homing F41G 7/228)]
9/02 . . . . . for bombing control (bombsights F41G 3/24)
9/025 . . . . . [Training or teaching apparatus therefor]

11/00 Details of sighting or aiming apparatus;
Accessories ([tools for adjustment of sights F41G 1/545])
11/001 . . . [Means for mounting tubular or beam shaped sighting or aiming devices on firearms]
11/002 . . . [Mountings with recoil absorbing means]
11/003 . . . [Mountings with a dove tail element, e.g. "Picatinny rail systems"]
11/004 . . . [Mountings with clamping means on the device embracing at least a part of the firearm, e.g. the receiver or a dustcover (F41G 11/003 takes precedence)]