

ECLA EUROPEAN CLASSIFICATION

F41G WEAPON SIGHTS; AIMING (optical aspects thereof G02B)

- F41G1/00** **Sighting devices**(for indirect laying of fireF41G3/16; bombsightsF41G3/24;[N: structurally associated with laser telemetersF41G3/06B; mounting tubular or beam shaped aiming devices on firearms F41G11/00B])
- F41G1/01 . characterised by the visual combination effect of the respective geometrical forms of fore and rear sight ([F41G1/42](#) takes precedence)
- F41G1/02 . Foresights
- F41G1/027 . . with lens
- F41G1/033 . . adjustable
- F41G1/04 . . Protection means therefor
- F41G1/06 . Rearsights
- F41G1/06B . . [N: Protection means therefor ([F41G1/04](#) takes precedence)]
- F41G1/08 . . with aperture; [N: tubular or of ring form; Peep sights ([F41G1/42](#) takes precedence)]
- F41G1/10 . . with notch
- F41G1/12 . . with line or mark other than notch
- F41G1/14 . . with lens
- F41G1/16 . . Adjusting mechanisms therefor; Mountings therefor
- F41G1/17 . . . Convertible sights, i.e. sets of two or more sights brought into the sight line optionally
- F41G1/18 . . . Clicking-indicators with spring detents
- F41G1/20 . . . coarse and fine
- F41G1/22 . . . Friction clamps
- F41G1/24 . . . rack-and-pinion; lever; linkwork
- F41G1/26 . . . screw
- F41G1/28 . . . wedge; cam; eccentric
- F41G1/30 . Reflecting-sights specially adapted for smallarms or ordnance ([reflecting-sights in general G02B](#))
- F41G1/32 . Night sights, e.g. luminescent [N: (optical aspects of sighting devices [G02B23/00](#), [G02B27/00](#))] [C0402]
- F41G1/34 . . combined with light source, e.g. spot-light
- F41G1/34B . . . [N: for illuminating the sights]
- F41G1/35 . . . for illuminating the target, [N: e.g. flash lights] [C0402]
- F41G1/36 . . . with infra-red light source
- F41G1/38 . Telescopic sights specially adapted for smallarms or ordnance ([telescopic sights in general G02B](#)); Supports or mountings therefor

- F41G1/38D . . [N: Protection means therefor]
- F41G1/387 . . Mounting telescopic sights on smallarms
- F41G1/393 . . Mounting telescopic sights on ordnance; Transmission of sight movements to the associated gun
- F41G1/393B . . . Transmission of sight movements to the associated gun
- F41G1/40 . Periscopic sights specially adapted for smallarms or ordnance (periscopic sights in general [G02B](#)); Supports or mountings therefor
- F41G1/41 . . Mounting periscopic sights on smallarms
- F41G1/42 . Tube sights; Bar sights ; [N: Combinations of tubular fore and rearsights]
- F41G1/42B . . [N: Bar sights]
- F41G1/44 . Spirit-level adjusting means, e.g. for correcting tilt ; [N: Means for indicating or correcting tilt or cant]
- F41G1/46 . for particular applications
- F41G1/467 . . for bows
- F41G1/473 . . for lead-indicating or range-finding, e.g. for use with rifles or shotguns
- F41G1/48 . . for firing grenades from rifles
- F41G1/50 . . for trench mortars [N: or for other mortars]
- F41G1/52 . . for rifles or shotguns having two or more barrels, or adapted to fire different kinds of ammunition, e.g. ball or shot
- F41G1/54 . Devices for testing or checking; [N: Tools for adjustment of sights]
- F41G1/54B . . [N: Tools for adjustment of sights]
- F41G3/00** **Aiming means; Laying means**(sighting-devices[F41G1/00](#); [N: mounting tubular or beam shaped aiming devices on firearms [F41G11/00B](#)]; determining direction, distance or velocity by use of radio or other waves[G01S](#); computers[G06](#); aerials[H01Q](#))
- F41G3/00B . [N: with means for correcting the parallax between the sighting means and the muzzle axis]
- F41G3/02 . using an independent line of sight
- F41G3/04 . for dispersing fire from a battery; [N: for controlling spread of shots; for coordinating fire from spaced weapons]
- F41G3/06 . with rangefinder (rangefinders per se [G01C](#))
- F41G3/06B . . [N: Structural association of sighting-devices with laser telemeters]
- F41G3/08 . with means for compensating for speed, direction, temperature, pressure, or humidity of the atmosphere (measuring [G01](#))
- F41G3/10 . with means for compensating for canting of the trunnions
- F41G3/12 . with means for compensating for muzzle velocity or powder temperature [N: with means for compensating for gun vibrations]

- F41G3/14 . Indirect aiming means
- F41G3/14B . . [N: based on observation of a first shoot; using a simulated shoot (training [F41G3/26](#))]
- F41G3/14C . . [N: using a target illuminator]
- F41G3/14D . . [N: based on detection of a firing weapon]
- F41G3/16 . . Sighting devices adapted for indirect laying of fire
- F41G3/16B . . . [N: using a TV-monitor]
- F41G3/18 . . Auxiliary target devices adapted for indirect laying of fire
- F41G3/20 . . specially adapted for mountain artillery

- F41G3/22 . for vehicle-borne armament, e.g. on aircraft
- F41G3/22B . . [N: Helmet sighting systems]
- F41G3/24 . . Bombsights

- F41G3/26 . Teaching or practice apparatus for gun-aiming or gun-laying [N: (shooting games [A63F9/02](#); light- or radiation-emitting guns [F41A33/02](#); targets therefor [F41J](#); responders, transponders for radar, sonar, lidar [G01S13/76R](#), [G01S15/74](#), [G01S17/74](#)) [C9503]
- F41G3/26B . . [N: using a view recording device cosighted with the gun ([F41G3/26C](#) takes precedence)]
- F41G3/26B1 . . . [N: coaxing with a TV-monitor]
- F41G3/26C . . [N: using a light emitting device]
- F41G3/26C1 . . . [N: for simulating the firing of a gun or the trajectory of a projectile]
- F41G3/26C1B [N: Cooperating with a motion picture projector]
- F41G3/26C1B1 [N: using a TV type screen, e.g. a CRT, displaying a simulated target]
- F41G3/26C1B1A [N: giving hit coordinates by means of raster control signals, e.g. standard light pen]
- F41G3/26C1C [N: Displaying the trajectory or the impact point of a simulated projectile in the gunner`s sight]
- F41G3/26C1D [N: with means for selecting or varying the shape or the direction of the emitted beam]
- F41G3/26C1E [N: in which the light beam is sent from the weapon to the target]
- F41G3/26C1F [N: in which the light beam is sent from the target to the weapon ([F41G3/26C1B1A](#) takes precedence)]
- F41G3/26C1G [N: with means for selecting or varying PRF or time coding of the emitted beam]
- F41G3/26C1G1 [N: using PRF adapted receiver]
- F41G3/26C1G1A [N: with PRF determination]
- F41G3/26C1H [N: with reflection of the beam on the target back to the weapon]
- F41G3/26C1H1 [N: using target range measurement, e.g. with a laser rangefinder]
- F41G3/26C2 [N: for simulating a target ([F41G3/26C1B](#) takes precedence; moving targets per se [F41J9/00](#))]
- F41G3/28 . . Small-scale apparatus (relief models or maps [G09B](#))
- F41G3/30 . . Gun-laying apparatus

- F41G3/32 . Devices for testing or checking

- F41G3/32B . . [N: 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 [G01B11/27](#))]
- F41G3/32C . . [N: for checking the angle between the axis of the gun sighting device and an auxiliary measuring device ([F41G3/32B](#) takes precedence)]

- F41G5/00** **Elevating or traversing control systems for guns** ([N: means for inhibiting firing in a specified direction [F41A17/08](#)]; gun mountings permitting traversing or elevating movement, e.g. gun carriages, [F41A27/00](#); computers [G06](#))
- F41G5/02 . using only mechanical means for remote control
- F41G5/04 . using hydraulic means for remote control
- F41G5/06 . using electric means for remote control
- F41G5/08 . Ground-based tracking-systems for aerial targets
- F41G5/12 . acoustically influenced
- F41G5/14 . for vehicle-borne guns
- F41G5/16 . . gyroscopically influenced
- F41G5/18 . . Tracking systems for guns on aircraft
- F41G5/20 . . for guns on ships
- F41G5/22 . . . to compensate for rolling or pitching
- F41G5/24 . . for guns on tanks
- F41G5/26 . Apparatus for testing or checking

- F41G7/00** **Direction control systems for self-propelled missiles** (flight control [B64C](#), [G05D1/00](#); [N: counter-measures against guided missiles [F41H11/02](#); spin-stabilised missiles [F42B10/26](#)]; self-propelled or guided missiles having direction control systems only installed aboard [F42B15/01](#); rocket torpedoes [F42B17/00](#); marine torpedoes or sea-mines having self-propulsion means [F42B19/00](#); locating by use of radio or other waves [G01S](#); computing aspects [G06](#))
- F41G7/00C . [N: Devices or systems for testing or checking]
- F41G7/00C1 . . [N: target simulators]
- F41G7/00C1A . . . [N: for seekers using radio waves]
- F41G7/00C1B . . . [N: for infra-red seekers]
- F41G7/00C2 . . [N: for testing benches or sets]
- F41G7/00E . [N: Guided missiles training or simulation devices]
- F41G7/00F . [N: Preparatory measures taken before the launching of the guided missiles]
- F41G7/00G . [N: Combinations of different guidance systems]
- F41G7/20 . based on continuous observation of target position

- F41G7/22 . . Homing guidance systems
- F41G7/22B . . . [N: using a remote control station]
- F41G7/22D . . . [N: maintaining the axis of an orientable seeking head pointed at the target, e.g. target seeking gyro] [N1204]
- F41G7/22E . . . [N: for spin-stabilized missiles]
- F41G7/22F . . . [N: comparing the observed data with stored target data, e.g. target configuration data] [M1205]
- F41G7/22J . . . [N: Multimissile systems]
- F41G7/22K . . . [N: Deceiving or protecting means (jamming or anti-jamming of radio-wave systems in general [G01S7/36](#), [G01S7/38](#); defense installations in general [F41H11/02](#); chaff dispensers [F42B13/42B](#))]
- F41G7/22L . . . [N: Active homing systems, i.e. comprising both a transmitter and a receiver] [N1204]
- F41G7/22M . . . [N: Passive homing systems, i.e. comprising a receiver and do not requiring an active illumination of the target] [N1204]
- F41G7/22N . . . [N: Semi-active homing systems, i.e. comprising a receiver and involving auxiliary illuminating means, e.g. using auxiliary guiding missiles] [N1204]
- F41G7/22N1 [N: Systems comparing signals received from a base station and reflected from the target] [N1204]
- F41G7/22O . . . [N: characterised by the type of waves] [N1204]
- F41G7/22O1 [N: using acoustic waves, e.g. for torpedoes] [N1204]
- F41G7/22O2 [N: using radio waves] [N1204]
- F41G7/22O3 [N: using electromagnetic waves other than radio waves] [N1204]
- F41G7/24 . . Beam riding guidance systems ([conical-scan beam beacons therefor G01S1/42](#))
- F41G7/26 . . . Optical guidance systems
- F41G7/26B [N: Means for producing guidance beams]
- F41G7/26E [N: for spin-stabilized missiles]
- F41G7/28 . . . Radio guidance systems
- F41G7/30 . . Command link guidance systems [N: homing [F41G7/22B](#)]
- F41G7/30B . . . [N: Details]
- F41G7/30B1 [N: Sighting or tracking devices especially provided for simultaneous observation of the target and of the missile]
- F41G7/30B2 [N: for spin-stabilized missiles]
- F41G7/30B3 [N: for transmitting guidance signals; ([F41G7/30B4](#) takes precedence)]
- F41G7/30B4 [N: for guiding a plurality of missiles]
- F41G7/32 . . . for wire-guided missiles

- F41G7/34 . . based on predetermined target position data
- F41G7/34B . . . [N: comparing observed and stored data of target position or of distinctive marks along the path towards the target]
- F41G7/34C . . . [N: using global navigation satellite systems, e.g. GPS, GALILEO, GLONASS] [N1204]
- F41G7/36 . . . using inertial references

- F41G9/00** **Systems for controlling missiles or projectiles, not provided for elsewhere**
- F41G9/00B . . [N: for guiding a craft to a correct firing position (for bombing control [F41G9/02](#))]

- F41G9/00B1 . . [N: Training or teaching apparatus therefor]
- F41G9/00B2 . . [N: for torpedo launchers (torpedo launching-apparatus [F41F3/08](#))]
- F41G9/00C . [N: Means for controlling firing of torpedoes; Torpedo directors (acoustic homing F41G7/22O1)] [N1204]
- F41G9/02 . for bombing control (bombsights [F41G3/24](#))
- F41G9/02B . . [N: Training or teaching apparatus therefor]
- F41G11/00** **Details of sighting or aiming apparatus; Accessories [N: (Tools for adjustment of sights [F41G1/54B](#))]**
- F41G11/00B . [N: Means for mounting tubular or beam shaped sighting or aiming devices on firearms] [N0604]
- F41G11/00B2 . . [N: Mountings with recoil absorbing means] [N0604]
- F41G11/00B4 . . [N: Mountings with a dove tail element, e.g. "Picatinny rail systems"] [N0604]
- F41G11/00B6 . . [N: Mountings with clamping means on the device embracing at least a part of the firearm, e.g. the receiver or a dustcover (F41G1/00B4 takes precedence)] [N0604]
- F41G11/00B8 . . [N: Mountings using a pivot point and an anchoring point] [N0604]
- F41G11/00B8B . . . [N: the device being rotated in a horizontal plane] [N0604]
- F41G11/00B8D . . . [N: the device being tilted in a vertical plane] [N0604]
- F41G11/00B8F . . . [N: the device being pivotable about an axis coaxial with the axis of the barrel, e.g. for loading] [N0604]