

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 [G02B](#))

WARNING

1. 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.
2. The following IPC group is not in the CPC scheme. The subject matter for this IPC group is classified in the following CPC groups:

[F41G 1/387](#) covered by [F41G 11/001 - F41G 11/008](#)

1/00	Sighting devices ({ structurally associated with laser telemeters F41G 3/065 ;} for indirect laying of fire F41G 3/16 ; bombsights F41G 3/24)	1/38	. Telescopic sights specially adapted for smallarms or ordnance (telescopic sights in general G02B); Supports or mountings therefor ({ Means for mounting sighting or 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)}	1/383	. . { Protection means therefor }
1/10	. . with notch	1/384	. . { Adjustment turrets, i.e. mechanisms having a rotary knob for adjusting the direction of the optical axis }
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	1/3841	. . . { characterised by the provision for both coarse and fine adjustment }
1/28	. . . wedge; cam; eccentric	1/3843	. . . { characterised by the indication of the rotational position of the turret }
1/30	. Reflecting-sights specially adapted for smallarms or ordnance (reflecting-sights in general G02B)	1/3845	. . . { having means for allowing more than one revolution }
1/32	. Night sights, e.g. luminescent ({ optical aspects of sighting devices G02B 23/00, G02B 27/00 })	1/3846 { with indicator for the current revolution }
1/34	. . combined with light source, e.g. spot light	1/3847	. . . { characterised by locking means, i.e. for locking the turret in its rotational position }
1/345	. . . { for illuminating the sights }	1/3849	. . . { characterised by means for selectively engaging or disengaging the rotary knob portion to or from the adjustment mechanism }
1/35	. . . for illuminating the target		
1/36	. . . with infrared light source	1/3851	. . . { characterised by means for zeroing or sighting in }

WARNING

Group [F41G 1/38](#) is impacted by reclassification into groups [F41G 1/384 - F41G 1/3853](#) and [F41G 1/386 - F41G 1/3865](#).

Groups [F41G 1/38, F41G 1/384 - F41G 1/3853](#) and [F41G 1/386 - F41G 1/3865](#) should be considered in order to perform a complete search.

WARNING

Groups [F41G 1/384 - F41G 1/3853](#) are incomplete pending reclassification of documents from group [F41G 1/38](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 1/3853 . . . {characterised by electric or electronic elements, e.g. position sensors or motors for rotating the knob}
- 1/386 . . {Reticles, i.e. aiming references visible to the user such as crosshairs}
- WARNING**
- Groups [F41G 1/386](#) - [F41G 1/3865](#) are incomplete pending reclassification of documents from group [F41G 1/38](#).
- All groups listed in this Warning should be considered in order to perform a complete search.
- 1/3861 . . . {physical reticles, e.g. a set of wires or transparent elements provided with markings}
- 1/3863 {characterised by their mounting, e.g. adjustable in position}
- 1/3864 {characterised by the illumination of the reticle}
- 1/3865 . . . {projected or displayed reticles ([projected reticles in reflecting sights F41G 1/30](#))}
- 1/387 . . Mounting telescopic sights on smallarms
(Frozen)
- WARNING**
- Group [F41G 1/387](#) is no longer used for the classification of documents as of August 1, 2026. The content of this group is being reclassified into groups [F41G 11/001](#) - [F41G 11/008](#).
- Groups [F41G 1/387](#) and [F41G 11/001](#) - [F41G 11/008](#) should be considered in order to perform a complete search.
- 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 . . Periscopic sights specially adapted for smallarms or ordnance ([periscopic sights in general G02B](#)); Supports or mountings therefor
- 1/41 . . Mounting periscopic sights on smallarms
- 1/42 . . Tube sights; Bar sights {; Combinations of tubular fore and rearsights}
- 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}
- 3/14 . . 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 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 . . . {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 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 {; counter-measures 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 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 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
- 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 sighting or aiming devices on firearms}

WARNING

Groups [F41G 11/001](#), [F41G 11/002](#), [F41G 11/004](#), [F41G 11/005](#), [F41G 11/006](#), [F41G 11/007](#) and [F41G 11/008](#) are incomplete pending reclassification of documents from group [F41G 1/387](#).

All groups listed in this Warning should be considered in order to perform a complete search.

11/002 . . . {Mountings with recoil absorbing means}

11/003 . . . {Mountings with a dove tail element, e.g. "Picatinny rail systems"}

WARNING

Group [F41G 11/003](#) is incomplete pending reclassification of documents from group [F41G 1/387](#). Group [F41G 11/003](#) is also impacted by reclassification into groups [F41G 11/0032](#) - [F41G 11/00327](#), [F41G 11/0034](#) - [F41G 11/00349](#) and [F41G 11/0038](#) - [F41G 11/00387](#).

All groups listed in this Warning should be considered in order to perform a complete search.

11/0032 . . . {characterised by the mounting rail}

WARNING

Groups [F41G 11/0032](#) - [F41G 11/00327](#) are incomplete pending reclassification of documents from groups [F41G 1/387](#) and [F41G 11/003](#).

All groups listed in this Warning should be considered in order to perform a complete search.

11/00321 {Geometry thereof}

11/00323 {provided with additional functional elements (with recoil absorbing means [F41G 11/002](#); power or data transfer [F41G 11/0038](#))}

11/00324 {Flip-up sights}

11/00325 {Adjustable, e.g. with respect to the firearm barrel axis}

11/00327 {Arrangements for securing the rail to the firearm}

11/0034 {characterised by the rail-engaging mounting member}

WARNING

Groups [F41G 11/0034](#) - [F41G 11/00349](#) are incomplete pending reclassification of documents from groups [F41G 1/387](#) and [F41G 11/003](#).

All groups listed in this Warning should be considered in order to perform a complete search.

11/00341 {Clamping arrangements}

11/00342 {with the clamping provided by a threaded element}

11/003414 {with the clamping provided by an eccentric element}

11/003416 {with the clamping provided by an elastic element}

11/00343 {with a movement of the left or right rail-engaging components relative to each other during engaging or disengaging}

11/003431 {Translational movements}

11/003433 {Rotational movements}

11/003437 {Flexing movements}

11/00345 {characterised by the locking means in the longitudinal direction}

11/00347 {being integral with the mounted device}

11/00349 {adapters therefor, i.e. elements for coupling further rails to the mounting rail}

11/0038 {characterised by the data or power transfer between the rail and the rail-engaging mounting member}

WARNING

Groups [F41G 11/0038](#) - [F41G 11/00387](#) are incomplete pending reclassification of documents from groups [F41G 1/387](#) and [F41G 11/003](#).

All groups listed in this Warning should be considered in order to perform a complete search.

11/00381 {by optical means}

11/00384 {by electrical means}

11/00387 {by induction means}

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)}

11/005 {Mountings using a pivot point and an anchoring point}

11/006 {the device being rotated in a horizontal plane}

11/007 {the device being tilted in a vertical plane}

11/008 {the device being pivotable about an axis coaxial with the axis of the barrel, e.g. for loading}