

# 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

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.

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