

# 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](#))

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| <p><b>1/00</b> Sighting devices (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> Aiming or laying means (<a href="#">sighting devices 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> <p>3/12 . with means for compensating for muzzle velocity or powder temperature {with means for compensating for gun vibrations}</p> <p>3/14 . Indirect aiming means</p> <p>3/142 . . {based on observation of a first shoot; using a simulated shoot (<a href="#">training F41G 3/26</a>)}</p> <p>3/145 . . {using a target illuminator}</p> <p>3/147 . . {based on detection of a firing weapon}</p> |
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- 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
- 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}

**2700/00 Torpedoes**

- 2700/005 . Remote steering of torpedoes by means of electric  
or acoustic waves or otherwise