CPC  COOPERATIVE PATENT CLASSIFICATION

F  MECHANICAL ENGINEERING; LIGHTING; HEATING; WEAPONS; BLASTING
(NOTE omitted)

WEAPONS; BLASTING

F41  WEAPONS
(NOTES omitted)

F41B  WEAPONS FOR PROJECTING MISSILES WITHOUT USE OF EXPLOSIVE OR COMBUSTIBLE PROPELLANT CHARGE; WEAPONS NOT OTHERWISE PROVIDED FOR (projectiles for fishing, e.g. fish-spears, A01K 81/00; sports implements for throwing A63B 65/00, e.g. boomerangs A63B 65/08; stationary apparatus for projecting sports balls, e.g. tennis balls, A63B 69/40; throwing or slinging toys A63H 33/18; knives, axes B26B; projectiles or missiles other than those incorporating springs as projecting means F42B 6/00)

WARNINGS
1. The following IPC groups are not in the CPC scheme. The subject matter for these IPC groups is classified in the following CPC groups:
   - F41B 5/16 covered by F41B 5/1473
   - F41B 5/18 covered by F41B 5/1469
   - F41B 5/20 covered by F41B 5/1426
   - F41B 5/22 covered by F41B 5/143

2. 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  Blow guns, i.e. tubes for impelling projectiles, e.g. peas or darts, by the force of the breath (pop guns A63H)

3/00  Sling weapons (throwing-apparatus for clay-pigeon or clay-disc targets F41J 9/18)
   - Catapults in pistol or rifle form having a cocking device, i.e. a mechanical device for holding the elastic band
   - Catapults, e.g. slingshots
   - Catapults having a pivotable launcher arm
   - Centrifugal sling apparatus

4/00  Friction-wheel operated launchers

5/00  Bows; Crossbows
   - Single stave recurve bows
   - fibre reinforced
   - laminated
   - Take-down or foldable bows
   - Handle or riser units
   - [characterised by the material]
   - fibre reinforced
   - laminated
   - Limbs
   - [characterised by the material]
   - fibre reinforced
   - laminated
   - [Single stave non-recurve bows]
   - [characterised by the material]
   - fibre reinforced
   - laminated
   - [Stands, rests or racks for bows]

5/0094  Non-traditional bows, e.g. having hinged limbs or non-stave geometry
5/06  Quivers
5/063  worn on the body of the archer
5/066  mounted on the bow or crossbow
5/10  Compound bows (compound crossbows F41B 5/123)
5/105  Cams or pulleys for compound bows
5/12  Crossbows
5/123  Compound crossbows
5/126  Repeating crossbows; crossbows with magazines
5/14  Details of bows; Accessories for arc shooting
5/1403  Details of bows; (camera's on bows F41G 1/467)
5/1407  Bow-string silencing devices
5/1411  Bow-strings
5/1415  Nocking points
5/1419  String mounted peep sights (sights mounted on the bow itself F41G 1/467)
5/1423  Kissers
5/1426  Bow stabilisers or vibration dampers
5/143  Arrow rests or guides
5/1434  Clickers or draw indicators
5/1438  Buttons
5/1442  Accessories for arc or bow shooting
5/1446  Arrow fletching jigs
5/1449  Bow tensioning devices; Bow presses; Rigs for bow assembly or maintenance
5/1453  Stands, rests or racks for bows
5/1457 . . . [Cases, bags or covers for bows]
5/1461 . . . [Devices for hands-free carrying of strung bows]
5/1465 . . . [Arrow pullers]
5/1469 . . . [Bow-string drawing or releasing devices (F41B 5/1473 takes precedence)]
5/1473 . . . [Archer's finger tabs]
5/1476 . . . [Devices for archery training]
5/148 . . . [Accessories and tools for bow shooting not otherwise provided for]
5/1484 . . . [Bows with special adaptations or devices for special purposes]
5/1488 . . . [with reels for fishing or arrow retrieval]
5/1492 . . . [with cameras; mounting of cameras on bows]
5/1496 . . . [with camouflage; Mounting of camouflage on bows]

6/00 Electromagnetic launchers (Plasma-actuated launchers (projectiles for electromagnetic or plasma guns F42B 6/006))
6/003 . . . [using at least one driving coil for accelerating the projectile, e.g. an annular coil]
6/006 . . . [Rail launchers]

7/00 Spring guns (F41J 9/18 takes precedence; catapults having a cocking device F41B 3/005); catapults F41B 3/02; [throwing apparatus for boomerangs A63B 65/08; spring-loaded devices for projecting sporting balls A63B 69/047])
7/003 . . . [Spring guns in pistol or rifle form]
7/006 . . . [Adaptations for feeding or loading missiles from magazines]
7/02 . . . [the spring forming part of the missile or projectile]
7/025 . . . [Rubber-band projecting guns]
7/04 . . . [adapted to discharge harpoons]
7/043 . . . [Accessories therefor]
7/046 . . . [Trigger mechanisms therefor]
7/08 . . . [Toy guns (i.e. guns launching objects of the gliding type, e.g. airplanes, parachute missiles (F41B 7/006 and F41B 7/02 take precedence)]

9/00 Liquid ejecting guns, e.g. water pistols (devices ejecting liquid jets by explosive pressure)
9/0003 . . . [characterised by the pressurisation of the liquid (for launching torpedoes or stores from submarines F41F 3/10)]
9/0006 . . . [the liquid being pressurised prior to ejection]
9/0009 . . . [the pressurised liquid being contained in an expandable chamber, e.g. a bladder or a chamber with a spring-loaded slideable wall]
9/0012 . . . [the gun having an unpressurised liquid reservoir]
9/0015 . . . [the liquid being pressurised by compressed gas, e.g. air (pressurisation by explosion gases F41B 9/0043)]
9/0018 . . . [the gas being compressed utilising a manual piston pump]
9/0021 . . . [the gas being compressed by non-manual pumping means, e.g. an electric pump]
9/0025 . . . [the pressurised liquid and the compressed gas being physically separated from each other, e.g. by a movable wall]
9/0028 . . . [the gun having an unpressurised liquid reservoir]
9/0031 . . . [the liquid being pressurised at the moment of ejection]
9/0034 . . . [Pressurisation by deformation of the gun body]
9/0037 . . . [Pressurisation by a piston]
9/004 . . . [the piston movement being mechanically coupled to the trigger movement, e.g. the piston being part of the trigger]
9/0043 . . . [Pressurisation by explosive pressure]
9/0046 . . . [Disruptors, i.e. for neutralising explosive devices]
9/005 . . . [the gun being connected to an external source of pressurised liquid during use of the gun, i.e. at least during ejection of the liquid]
9/0053 . . . [the external source being a pressurised water supply system, e.g. the municipal water supply system or a water supply system onboard a ship]
9/0056 . . . [the external source being open water and the pressure being generated by an intake travelling at high speed through the water]
9/0059 . . . [characterised by the number or kind of pressure or storage chambers]
9/0062 . . . [the liquid being stored in the handle, grip or stock of the gun]
9/0065 . . . [with removable storage tanks]
9/0068 . . . [with more than one storage tank]
9/0071 . . . [characterised by special valve arrangements]
9/0075 . . . [characterised by special nozzle arrangements, e.g. for a swirling effect or a directional effect]
9/0078 . . . [characterised by the gun housing, e.g. its shape or concealment]
9/0081 . . . [Special gun housing shapes, e.g. in the form of animals, airplanes, toys or figurines]
9/0084 . . . [Concealed gun housings, e.g. concealed nozzles in a garment]
9/0087 . . . [characterised by the intended use, e.g. for self-defence, law-enforcement, industrial use, military purposes (F41B 9/0046 takes precedence)]
9/009 . . . [for ejecting electrically charged jets]
9/0093 . . . [for riot control, e.g. water cannons therefor]
9/0096 . . . [having means for mixing other agents with the liquid]

11/00 Compressed-gas guns, e.g. air guns; Steam guns
11/50 . . . [Magazines for compressed-gas guns; Arrangements for feeding or loading projectiles from magazines]
11/51 . . . [the magazine being an integral, internal part of the gun housing]
11/52 . . . [the projectiles being loosely held in a magazine above the gun housing, e.g. in a hopper]
11/53 . . . [the magazine having motorised feed-assisting means]
11/54 . . . [the projectiles being stored in a rotating drum magazine]
11/55 . . . [the projectiles being stored in stacked order in a removable box magazine, rack or tubular magazine]
11/56 . . . [the magazine also housing a gas cartridge]
11/57 . . . [Electronic or electric systems for feeding or loading (F41B 11/53 takes precedence)]
11/60 . . . [characterised by the supply of compressed gas]
11/62 . . . [with pressure supplied by a gas cartridge]
having a piston effecting a compressor stroke during the firing of each shot

the piston being hand operated

the piston being spring operated

during the firing of each shot

the piston being arranged concentrically with the barrel

having an additional slidable mass moving in the opposite direction to the piston, e.g. for recoil reduction

the slidable mass being a compressor piston

Arrangements for putting the spring under tension

by a rocker lever

in breakdown air guns

having deformable bellows or chambers pressed during firing, e.g. by deformation of the body of the gun

the gas being pre-compressed before firing

Pumping or compressor arrangements therefor

operated by a rocker-lever system

in breakdown air guns

Details not provided for in F41B 11/50 or F41B 11/60

Electric or electronic control systems, e.g. for safety purposes

Valves; Arrangement of valves

for controlling gas pressure for both firing the projectile and for loading or feeding

for controlling gas pressure for loading or feeding only

for controlling gas pressure for firing the projectile only

for gas pressure reduction

Sealing arrangements; Pistons

specially adapted for particular purposes

for ejecting powder, e.g. pepper

for launching harpoons

for launching hypodermic projectiles

for industrial purposes, e.g. for surface treatment

for toys

Thrusting-weapons (bayonets F41C 27/18);
Cutting-weapons carried as side-arms (training appliances for fencing A63B 69/02; sheaths for hand cutting tools B26B 29/00 ; firearms combined with thrusting or cutting weapons F41C 27/16))

Sabres; Cutlasses; Swords; Epees {{toy swords A63H 33/009}}

NOTE

Documents characterised by electric contact means for indicating hits in fencing are classified in A63B 69/02

Sheaths or scabbards therefor {{Wearing gear therefor}}

Daggers; Stilettos

Lances; Pikes (spears for sporting purposes A63B 65/02)