

CPC COOPERATIVE PATENT CLASSIFICATION

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

WEAPONS; BLASTING

F41 WEAPONS (NOTES omitted)

F41F APPARATUS FOR LAUNCHING PROJECTILES OR MISSILES FROM BARRELS, e.g. CANNONS (smallarms F41C); LAUNCHERS FOR ROCKETS OR TORPEDOES; HARPOON GUNS (functional features or details common to both smallarms and ordnance, mountings therefor F41A; projecting missiles without use of explosive or combustible propellant charge F41B)

NOTE

This subclass does not cover the arrangement of armaments, adaptation of mountings therefor, or arrangements of ammunition handlers on ships or aircraft, if they present a shipbuilding or aircraft-building aspect, which are covered by subclass [B63G](#) or [B64D](#).

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.

1/00 Launching apparatus for projecting projectiles or missiles from barrels, e.g. cannons (F41F 3/00 takes precedence); Harpoon guns

1/06 . Mortars (base plates therefor [F41A 23/54](#))

1/08 . Multibarrel guns, e.g. twin guns

1/085 . . {with oscillating barrels; with barrels having variable relative orientation (scatter-fire arrangements [F41A 27/04](#))}

1/10 . . Revolving-cannon guns, i.e. multibarrel guns with the barrels and their respective breeches mounted on a rotor; Breech mechanisms therefor

3/00 Rocket or torpedo launchers

3/04 . for rockets

3/0406 . . {Rail launchers}

3/0413 . . {Means for exhaust gas disposal, e.g. exhaust deflectors, gas evacuation systems}

3/042 . . the launching apparatus being used also as a transport container for the rocket {(F41F 3/065 takes precedence)}

3/045 . . adapted to be carried and used by a person, e.g. bazookas ([F41F 3/042 takes precedence](#))

3/0455 . . . {Bazookas}

3/048 . . Means for imparting spin to the rocket before launching

3/052 . . Means for securing the rocket in the launching apparatus

3/055 . . Umbilical connecting means {(means for facilitating disengagement of electric line connector coupling parts in general [H01R 13/633](#))}

3/058 . . Means for removing duds or misfires

3/06 . . from aircraft {(F41F 3/0406 takes precedence; arrangements of rocket launchers on aircraft [B64D 7/08](#); bomb releasing in flight [B64D 1/06](#))}

3/065 . . . Rocket pods, i.e. detachable containers for launching a plurality of rockets

3/07 . . Underwater launching-apparatus

3/073 . . Silos for rockets, e.g. mounting or sealing rockets therein ([F41F 3/077 takes precedence](#))

3/077 . . Doors or covers for launching tubes

3/08 . for marine torpedoes {(F41A 23/22 takes precedence)}

3/10 . . from below the surface of the water

5/00 Launching-apparatus for gravity-propelled missiles or projectiles (from aircraft [B64D 1/04](#))

5/04 . from ships, e.g. for mines, for depth charges

7/00 Launching-apparatus for projecting missiles or projectiles otherwise than from barrels, {e.g. using spigots}(F41F 3/04 takes precedence; {centrifugal sling apparatus [F41B 3/04](#)})