

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.

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| 1/00 | Launching apparatus for projecting projectiles or missiles from barrels, e.g. cannons (F41F 3/00 takes precedence); Harpoon guns | 3/065 | . . . Rocket pods, i.e. detachable containers for launching a plurality of rockets |
| 1/06 | . Mortars (base plates therefor F41A 23/54) | 3/07 | . . Underwater launching-apparatus |
| 1/08 | . Multibarrel guns, e.g. twin guns | 3/073 | . . Silos for rockets, e.g. mounting or sealing rockets therein (F41F 3/077 takes precedence) |
| 1/085 | . . {with oscillating barrels; with barrels having variable relative orientation (scatter-fire arrangements F41A 27/04)} | 3/077 | . . Doors or covers for launching tubes |
| 1/10 | . . Revolving-cannon guns, i.e. multibarrel guns with the barrels and their respective breeches mounted on a rotor; Breech mechanisms therefor | 3/08 | . for marine torpedoes {(F41A 23/22 takes precedence)} |
| 3/00 | Rocket or torpedo launchers | 3/10 | . . from below the surface of the water |
| 3/04 | . for rockets | 5/00 | Launching-apparatus for gravity-propelled missiles or projectiles (from aircraft B64D 1/04) |
| 3/0406 | . . {Rail launchers} | 5/04 | . from ships, e.g. for mines, for depth charges |
| 3/0413 | . . {Means for exhaust gas disposal, e.g. exhaust deflectors, gas evacuation systems} | 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)} |
| 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)} | | |