

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	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)}		