

CPC**COOPERATIVE PATENT CLASSIFICATION****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](#) .

F41F 1/00

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

F41F 1/06

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

F41F 1/08

- . Multibarrel guns, e.g. twin guns

F41F 1/085

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

F41F 1/10

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

F41F 3/00

Rocket or torpedo launchers

F41F 3/04

- . for rockets

F41F 3/0406

- .. {[Rail launchers](#) }

F41F 3/0413

- .. {[Means for exhaust gas disposal, e.g. exhaust deflectors, gas evacuation systems](#) }

F41F 3/042

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

F41F 3/045

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

F41F 3/0455

- ... {[Bazookas](#) }

F41F 3/048

- .. Means for imparting spin to the rocket before launching

F41F 3/052

- .. Means for securing the rocket in the launching apparatus

F41F 3/055

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

F41F 3/058

- .. Means for removing duds or misfires

F41F 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](#)) }

F41F 3/065

- ... Rocket pods, i.e. detachable containers for launching a plurality of rockets

F41F 3/07

- .. Underwater launching-apparatus

- F41F 3/073 . . Silos for rockets, e.g. mounting or sealing rockets therein ([F41F 3/077](#) takes precedence)
- F41F 3/077 . . Doors or covers for launching tubes
- F41F 3/08 . for marine torpedoes ([F41A 23/22](#) takes precedence }
- F41F 3/10 . . from below the surface of the water
- F41F 5/00** **Launching-apparatus for gravity-propelled missiles or projectiles** (from aircraft [B64D 1/04](#))
- F41F 5/04 . from ships, e.g. for mines, for depth charges
- F41F 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](#) }