

**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](#)})**