

**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](#)})