

ECLA**EUROPEAN 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](#).

F41F1/00

Launching apparatus for projecting projectiles or missiles from barrels, e.g. cannons ([F41F3/00 takes precedence](#)); **Harpoon guns**

F41F1/06

- Mortars ([base plates therefor F41A23/54](#)) [[C0506](#)]

F41F1/08

- Multibarrel guns, e.g. twin guns

F41F1/08B

- • [\[N: with oscillating barrels; with barrels having variable relative orientation \(scatter-fire arrangements F41A27/04\)\]](#)

F41F1/10

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

F41F3/00

Rocket or torpedo launchers

F41F3/04

- for rockets

F41F3/04B

- • [\[N: Rail launchers\] \[N9409\]](#)

F41F3/04C

- • [\[N: Means for exhaust gas disposal, e.g. exhaust deflectors, gas evacuation systems\] \[N9409\]](#)

F41F3/042

- • the launching apparatus being used also as a transport container for the rocket [\[N: \(F41F3/065 takes precedence\)\]](#)

F41F3/045

- • adapted to be carried and used by a person, e.g. bazookas ([F41F3/042 takes precedence](#))

F41F3/045B

- • • [\[N: Bazookas\]](#)

F41F3/048

- • Means for imparting spin to the rocket before launching

F41F3/052

- • Means for securing the rocket in the launching apparatus

F41F3/055

- • Umbilical connecting means [\[N: \(Means for facilitating disengagement of electric line connector coupling parts in general H01R13/633\)\]](#)

F41F3/058

- • Means for removing duds or misfires

F41F3/06

- • from aircraft [\[N: \(F41F3/04B takes precedence; arrangements of rocket launchers on aircraft B64D7/08; bomb releasing in flight B64D1/06\)\]](#) [[C0502](#)]

F41F3/065

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

F41F3/07

- • Underwater launching-apparatus

F41F3/073

- • Silos for rockets, e.g. mounting or sealing rockets therein ([F41F3/077 takes precedence](#))

F41F3/077

- . . Doors or covers for launching tubes

F41F3/08

- . for marine torpedoes [N: [F41A23/22](#) takes precedence]

F41F3/10

- . . from below the surface of the water

F41F5/00

Launching-apparatus for gravity-propelled missiles or projectiles (from aircraft [B64D1/04](#))

F41F5/04

- . from ships, e.g. for mines, for depth charges

F41F7/00

Launching-apparatus for projecting missiles or projectiles otherwise than from barrels, [N: e.g. using spigots] ([F41F3/04](#) takes precedence; [N: centrifugal sling apparatus [F41B3/04](#)])