

# 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.

- |             |   |              |   |
|-------------|---|--------------|---|
| <b>1/00</b> | <b>Launching apparatus for projecting projectiles or missiles from barrels, e.g. cannons (<a href="#">F41F 3/00</a> takes precedence); Harpoon guns</b>   | <b>3/065</b> | . . . Rocket pods, i.e. detachable containers for launching a plurality of rockets  |
| 1/06        | . Mortars (base plates therefor <a href="#">F41A 23/54</a> )  | 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 ( <a href="#">F41F 3/077</a> takes precedence)  |
| 1/085       | . . {with oscillating barrels; with barrels having variable relative orientation (scatter-fire arrangements <a href="#">F41A 27/04</a> )}   | 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 {( <a href="#">F41A 23/22</a> takes precedence)}   |
| <b>3/00</b> | <b>Rocket or torpedo launchers</b>  | 3/10         | . . from below the surface of the water   |
| 3/04        | . for rockets   | <b>5/00</b>  | <b>Launching-apparatus for gravity-propelled missiles or projectiles (from aircraft <a href="#">B64D 1/04</a>)</b>  |
| 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}   | <b>7/00</b>  | <b>Launching-apparatus for projecting missiles or projectiles otherwise than from barrels, {e.g. using spigots} (<a href="#">F41F 3/04</a> takes precedence; {centrifugal sling apparatus <a href="#">F41B 3/04</a>)}</b> |
| 3/042       | . . the launching apparatus being used also as a transport container for the rocket {( <a href="#">F41F 3/065</a> takes precedence)}  |              |   |
| 3/045       | . . adapted to be carried and used by a person, e.g. bazookas ( <a href="#">F41F 3/042</a> 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 <a href="#">H01R 13/633</a> )}   |              |   |
| 3/058       | . . Means for removing duds or misfires   |              |   |
| 3/06        | . . from aircraft {( <a href="#">F41F 3/0406</a> takes precedence; arrangements of rocket launchers on aircraft <a href="#">B64D 7/08</a> ; bomb releasing in flight <a href="#">B64D 1/06</a> )} |              |   |