

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](#))

Definition statement

This place covers:

Projectile launchers per se, except for smallarms which are covered in [F41C](#), i.e. cannons, mortars, medium/large calibre guns, artillery guns, ordnance.

Launchers for self propelled missiles, i.e. rockets and torpedos.

Gravity propelled missile launchers and missile launching apparatuses without barrels.

References

Limiting references

This place does not cover:

Mounting of armament on ships	B63G
Mounting of armament on aircraft	B64D
Functional features common to both smallarms and ordnance	F41A
Projecting missiles without use of explosive or combustible propellant charge	F41B
Smallarms	F41C
Self-propelled missiles	F42B 15/00
Torpedoes	F42B 19/00

F41F 1/00

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

Definition statement

This place covers:

Includes the projectile launching apparatuses with a barrel which is larger than smallarms. A barrel being defined as a gun tube with a closable breech at the proximal end.

Includes mortars.

Includes harpoon guns projecting harpoons with a pyrotechnic charge.

References

Limiting references

This place does not cover:

Rocket or torpedo launchers	F41F 3/00
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Spring guns adapted to discharge harpoons	F41B 7/04
Compressed gas guns adapted to discharge harpoons	F41B 11/83

F41F 3/00

Rocket or torpedo launchers

Definition statement

This place covers:

Launchers for rockets, including portable rocket tubes and vehicle/infrastructure mounted rocket pods or silos.

Torpedo launchers from above (ship, land and air) and below the water surface.

F41F 3/04

for rockets

Definition statement

This place covers:

Launchers for rockets, i.e. missiles including a warhead and a rocket propulsion system or self propelled missiles.

F41F 3/048

Means for imparting spin to the rocket before launching

References

Limiting references

This place does not cover:

Stabilising arrangements using spin for missiles (after launch)	F42B 10/26
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F41F 3/055

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

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Command link guidance using wires	F41G 7/32
Wire guided self propelled missiles	F42B 15/04
Means for facilitating disengagement of electric line connector coupling parts	H01R 13/633

F41F 3/07**Underwater launching-apparatus****References****Informative references**

Attention is drawn to the following places, which may be of interest for search:

Arrangements on submarines for launching missiles	B63G 8/30
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F41F 3/08**for marine torpedoes {([F41A 23/22](#) takes precedence)}****References****Limiting references**

This place does not cover:

Disposition of guns on vehicles, gun mountings for disappearing guns on board of submarines	F41A 23/22
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Informative references

Attention is drawn to the following places, which may be of interest for search:

Arrangements on submarines of torpedo launch installations	B63G 8/32
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F41F 5/00**Launching-apparatus for gravity-propelled missiles or projectiles (from aircraft [B64D 1/04](#))****Definition statement**

This place covers:

Includes devices for dropping warheads from a certain height only propelled by gravity, e.g. from land vehicles or buildings.

References**Limiting references**

This place does not cover:

Laying of mines and depth charges	B63G 6/00
Dropping bombs from aircrafts	B64D 1/04

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](#)})

Definition statement

This place covers:

Residual maingroup for projectile or missile launchers not covered by [F41B 1/00](#) - [F41C 9/08](#) and [F41F 1/00](#) - [F41F 5/04](#).

References

Limiting references

This place does not cover:

Rocket launchers	F41F 3/04
Centrifugal sling apparatus	F41B 3/04