

Title (en)

LAUNCHING DEVICE AND PROJECTILE ESPECIALLY ADAPTED FOR SUCH A LAUNCHING DEVICE

Title (de)

WERFER UND SPEZIELL FÜR EINEN SOLCHEN WERFER ANGEPASSTES PROJEKTIL

Title (fr)

EQUIPEMENT D'ARMEMENT ET PROJECTILE SPECIALEMENT ADAPTE POUR UN TEL EQUIPEMENT D'ARMEMENT

Publication

**EP 3187816 A1 20170705 (FR)**

Application

**EP 16206899 A 20161226**

Priority

FR 1563479 A 20151230

Abstract (en)

[origin: US2017299328A1] Weapon equipment including a launcher and a projectile, the projectile having an operating head, a tail and a weight between 750 g and 1000 g. The tail includes a tube made of an aluminum alloy having an inner diameter between 21.5 and 22.5 mm, a stroke between first and second locations between 110 mm and 120 mm, and a thickness in the vicinity of the first location between 4.6 mm and 5 mm, a piston movable between the first and second locations and defining with the tube a hermetically-sealed propulsion chamber, a propulsion charge placed in the propulsion chamber, the propulsion charge including a powder having a heat of combustion between 3500 J/g and 4000 J/g, the propulsion charge having a mass greater than 2.4 g and less than 3.7 g.

Abstract (fr)

Equipelement d'armement comprenant un lanceur et un projectile (25), le projectile (25) ayant un poids compris entre 750 g et 1000 g, le projectile (25) comprenant une tête opérante (26) et une queue (40), la queue (40) comportant : - un tube (41) en alliage d'aluminium présentant un diamètre intérieur (Di) compris entre 21,5 mm et 22,5 mm, une course (c) entre des premier (E1) et deuxième (E2) emplacements comprise entre 110 mm et 120 mm, et une épaisseur (e) au voisinage du premier emplacement (E1) comprise entre 4,6 mm et 5 mm, - un piston (60) déplaçable entre les premier (E1) et deuxième (E2) emplacements et délimitant avec le tube (41) une chambre de propulsion (65) hermétiquement fermée, - une charge de propulsion (70) placée dans la chambre de propulsion (65), la charge de propulsion (70) comprenant une poudre ayant une chaleur de combustion comprise entre 3500 J/g et 4000 J/g, la charge de propulsion (70) ayant une masse strictement supérieure à 2,4 g et inférieure à 3,7 g.

IPC 8 full level

**F42B 29/00** (2006.01); **F41F 1/06** (2006.01); **F41F 7/00** (2006.01); **F42B 12/24** (2006.01); **F42B 30/10** (2006.01); **F42C 19/10** (2006.01)

CPC (source: CH EP US)

**F41F 1/06** (2013.01 - CH EP US); **F41F 7/00** (2013.01 - EP US); **F42B 12/24** (2013.01 - CH EP US); **F42B 29/00** (2013.01 - CH EP US); **F42B 30/10** (2013.01 - CH EP US); **F42C 19/0819** (2013.01 - CH US); **F42C 19/10** (2013.01 - EP US)

Citation (applicant)

RENÉ MALFATTI: "Manuel de Rechargement", 2004, pages: 43 - 45

Citation (search report)

- [Y] FR 1326176 A 19630503 - ENERGA
- [A] FR 2488385 A1 19820212 - VALINOR SA [LI]
- [A] DE 102013010502 A1 20150108 - RHEINMETALL WAFFE MUNITION [DE]
- [A] FR 1589250 A 19700323
- [IY] ANONYMOUS: "Fly-K mortar systems - excellent stealth capabilities and tremendous tactical potential", 15 February 2010 (2010-02-15), XP002760779, Retrieved from the Internet <URL:http://www.rheinmetall-defence.com/de/rheinmetall\_defence/public\_relations/news/detail\_1436.php> [retrieved on 20160815]

Designated contracting state (EPC)

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BA ME

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