

Title (en)

HIGH STRENGTH POLYMER-BASED CARTRIDGE CASING FOR BLANK AND SUBSONIC AMMUNITION

Title (de)

HOCHFESTES POLYMERBASIERTES KASSETTENGEHÄUSE FÜR ROHLINGE UND UNTERSCHALLMUNITION

Title (fr)

BOÎTIER DE CARTOUCHE À BASE DE POLYMÈRE À HAUTE RÉSISTANCE POUR ÉBAUCHE ET MUNITION SUBSONIQUE

Publication

EP 3587994 A1 20200101 (EN)

Application

EP 19192502 A 20120113

Priority

- US 201161433170 P 20110114
- EP 18165338 A 20120113
- EP 15156909 A 20120113
- EP 12702665 A 20120113
- US 2012021350 W 20120113

Abstract (en)

A high strength polymer-based cartridge comprising a first end (210), a neck (206) disposed at the first end, a shoulder (204) disposed below the neck forming a bottleneck cartridge, a second end (212) opposite the first end, an insert (400) engaged to the second end, a propellant chamber (340) formed between the shoulder and the insert and having a volume, an extension extending from the neck opposite the shoulder and a cap (244) formed on the extension, partially sealing the propellant chamber.

IPC 8 full level

F42B 5/307 (2006.01); **F42B 3/24** (2006.01); **F42B 5/313** (2006.01)

CPC (source: EP IL US)

F42B 5/307 (2013.01 - IL); **F42B 5/313** (2013.01 - EP IL US)

Citation (applicant)

- US 4147107 A 19790403 - RINGDAL LARS
- US 6845716 B2 20050125 - HUSSEINI NABIL [US], et al
- US 7213519 B2 20070508 - WILEY SY [US], et al
- US 7610858 B2 20091103 - CHUNG SENGSHIU [US]

Citation (search report)

- [X] US 6845716 B2 20050125 - HUSSEINI NABIL [US], et al
- [I] US 3144827 A 19640818 - BOUTWELL JOHN T
- [I] US 4565131 A 19860121 - BUCHNER DELMER B [US]
- [I] AU 1350583 A 19831020 - ORPHINGTON PTY LTD
- [I] US 7610858 B2 20091103 - CHUNG SENGSHIU [US]

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

US 2012180687 A1 20120719; EP 2663831 A1 20131120; EP 2663831 B1 20150304; EP 2749838 A1 20140702; EP 2749838 B1 20150617; EP 2896928 A1 20150722; EP 2896928 B1 20180425; EP 3361209 A1 20180815; EP 3361209 B1 20190911; EP 3587994 A1 20200101; EP 3587994 B1 20220420; IL 227436 A0 20130930; IL 227436 A 20161130; IL 248485 A0 20161229; IL 248485 B 20200430; IL 273811 A 20200531; IL 278327 B 20210831; IL 285464 A 20210930; IL 285464 B1 20240301; IL 285464 B2 20240701; IL 310594 A 20240401; WO 2012097320 A1 20120719

DOCDB simple family (application)

US 201213350585 A 20120113; EP 12702665 A 20120113; EP 14161688 A 20120113; EP 15156909 A 20120113; EP 18165338 A 20120113; EP 19192502 A 20120113; IL 22743613 A 20130711; IL 24848516 A 20161025; IL 27381120 A 20200405; IL 27832720 A 20201027; IL 28546421 A 20210809; IL 31059424 A 20240201; US 2012021350 W 20120113