

Title (en)  
High strength polymer-based cartridge casing for blank and subsonic ammunition

Title (de)  
Hochfeste polymerbasierte Patronenhülse für Übungs- und Unterschallmunition

Title (fr)  
Douille à base de polymère haute résistance pour une munition à blanc et subsonique

Publication  
**EP 2896928 A1 20150722 (EN)**

Application  
**EP 15156909 A 20120113**

Priority  
• US 201161433170 P 20110114  
• EP 12702665 A 20120113

Abstract (en)  
A high strength polymer-based cartridge casing (100) includes an upper component of polymer having a first (210) end with a mouth (208) , at least a wall (202) between the first end and a second end of the upper component opposite the first end, a sleeve extending longitudinally and radially about the wall, and at least one of an overlap portion and an underskirt portion extending from the wall near the second end. The lower component (300) is molded from a polymer and includes at least one of a tapered portion and an outer tapered portion that engages at least one of the overlap portion and the underskirt portions, respectively, to join the upper and the lower components. Further, the sleeve reduces a volume of a propellant chamber formed by the wall. The reduced volume of the propellant chamber permits only enough propellant to propel a bullet engaged in the cartridge casing at subsonic speeds.

IPC 8 full level  
**F42B 5/313** (2006.01); **F42B 5/307** (2006.01)

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

Citation (applicant)  
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• US 6845716 B2 20050125 - HUSSEINI NABIL [US], et al  
• US 7213519 B2 20070508 - WILEY SY [US], et al  
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• [X] AU 1350583 A 19831020 - ORPHINGTON PTY LTD  
• [I] DE 3344369 A1 19850620 - FEISTEL PYROTECH FAB [DE]  
• [I] GB 616755 A 19490126 - ARMAND SOULET  
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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