

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

Title (de)
Hochfestes polymerbasiertes Kassettengehäuse für Rohlinge und Unterschallmunition

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

Publication
EP 2749838 A1 20140702 (EN)

Application
EP 14161688 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 (200) having a first end (220) with a mouth (208), at least a wall between the first end and a second end (304) of the upper component opposite the first end, a sleeve (230) extending longitudinally and radially about the wall, and at least one of an overlap portion (222) 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 (306) 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 5/307 (2006.01); **F42B 5/313** (2006.01)

CPC (source: EP IL US)
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 7610858 B2 20091103 - CHUNG SENGSHIU [US]
• [X] US 7213519 B2 20070508 - WILEY SY [US], et al
• [X] DE 1113880 B 19610914 - DYNAMIT NOBEL AG
• [A] EP 0444545 A1 19910904 - STEYR DAIMLER PUCH AG [AT]
• [A] DE 3344369 A1 19850620 - FEISTEL PYROTECH FAB [DE]

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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