

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
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Application
EP 18165338 A 20120113

Priority

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- EP 15156909 A 20120113
- EP 12702665 A 20120113
- US 2012021350 W 20120113

Abstract (en)
A high strength polymer-based cartridge (200) for subsonic ammunition comprising a first end having a mouth (208) , a projectile (50) disposed in the mouth, a shoulder disposed below the mouth forming a bottleneck cartridge; and at least a wall, molded from a polymer, between the first end and a second end of the upper component opposite the first end forming a propellant chamber; and an insert (400) joined to the second end; wherein the wall comprises a thickness at least 1.25 times greater than a standard thickness of a wall of a standard cartridge, wherein the propellant chamber between the mouth and the insert is unobstructed, and wherein the propellant chamber comprises a powder load having a load density greater than 40%.

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)

- 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)

- [I] GB 875241 A 19610816 - GUSTAV GENSCHOW & CO AG
- [ID] US 7610858 B2 20091103 - CHUNG SENGSHIU [US]
- [ID] US 6845716 B2 20050125 - HUSSEINI NABIL [US], et al
- [I] WO 2006094987 A1 20060914 - SOLVAY ADVANCED POLYMERS LLC [US], et al
- [I] US 3144827 A 19640818 - BOUTWELL JOHN T

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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