

Title (en)
Warhead generating an explosively formed tubular projectile

Title (de)
Gefechtskopf welcher explosif ein rorhförmiges Projektile bildet

Title (fr)
Tête militaire engendrant un noyau tubulaire

Publication
EP 1870640 A2 20071226 (FR)

Application
EP 07290750 A 20070618

Priority
FR 0605739 A 20060622

Abstract (en)
The military head (1) charged with a concave coating (2) applied against an explosive charge (3) disposed in an envelope (4) having a bottom, comprises an initiation unit, a cylindrical steel insert (7) disposed axially with respect to the coating, a rear containment block having a cylindrical external surface adjusted with an internal housing of the envelope, and an internal conical bore. The insert is intended to give a tubular profile to a core generated by the coating during the initiation of the explosive charge. The military head (1) charged with a concave coating (2) applied against an explosive charge (3) disposed in an envelope (4) having a bottom, comprises an initiation unit, a cylindrical steel insert (7) disposed axially with respect to the coating, a rear containment block having a cylindrical external surface adjusted with an internal housing of the envelope, and an internal conical bore. The insert is intended to give a tubular profile to a core generated by the coating during the initiation of the explosive charge, and completely extends the coating and penetrates inside the explosive charge. The insert comprises a conical rear portion located at a distance from the bottom of the envelope, where the distance is greater than or equal to a diameter of the insert. A conicity of the internal conical bore is same as the conical rear portion of the insert. A length of the insert is located outside of the charge, where the length is ≥ 0.5 times a size of the charge. The conical rear portion of the insert penetrates inside the explosive charge.

Abstract (fr)
L'invention a pour objet une tête militaire (1) à charge formée comportant un revêtement concave (2) appliqué contre un chargement explosif (3) et qui est associé à des moyens d'amorçage (5, 6). Cette tête comporte au moins un insert (7) qui est disposé d'une façon axiale par rapport au revêtement (2), insert qui est destiné à donner un profil tubulaire au noyau engendré par le revêtement (2) lors de l'initiation du chargement explosif (3). Cette tête est caractérisée en ce que l'insert (7) traverse complètement le revêtement (2) et pénètre à l'intérieur du chargement explosif (3), l'insert comportant une partie arrière (10,11) qui se situe à distance (D) d'un fond (4a) de l'enveloppe (4).

IPC 8 full level
F42B 1/024 (2006.01)

CPC (source: EP)
F42B 1/024 (2013.01)

Citation (applicant)

- FR 2627580 A1 19890825 - FRANCE ETAT ARMEMENT [FR]
- FR 2698163 A1 19940520 - GIAT IND SA [FR]
- WO 8501572 A1 19850411 - BRIND ANSTALT IND [LI]
- FR 2771486 A1 19990528 - DIEHL GMBH & CO [DE]
- US 3948181 A 19760406 - BERGSTROM JOHN J
- US 4841864 A 19890627 - GRACE FRED I [US]

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