

Title (en)

Process for producing mouldable, plastic-bound explosives

Title (de)

Verfahren zur Herstellung giessfähiger kunststoffgebundener Sprengladungen

Title (fr)

Procédé de fabrication de charges explosives liées par des polymères, qui peuvent être moulées

Publication

EP 1211232 A3 20020814 (DE)

Application

EP 01124918 A 20011019

Priority

DE 10058705 A 20001125

Abstract (en)

[origin: DE10058705C1] In the production of pourable plastics-bonded bursting charges (I), consisting of a crystalline explosive embedded in a polymer matrix formed from a binder, a plasticizer and auxiliaries, (I) contains 0.1-10 wt. % of metal powder (II), in which the metal is one or more of vanadium, niobium, tantalum, chromium, molybdenum and tungsten and the powder is in the form of 0.1-5 μ m spherical particles. In the production of pourable plastics-bonded bursting charges (I), consisting of a crystalline explosive embedded in a polymer matrix formed from a binder, a plasticizer and auxiliaries, (I) contains (as a further auxiliary) 0.1-10 (preferably 2-5) wt. % of metal powder (II), in which the metal is one or more of vanadium, niobium, tantalum, chromium, molybdenum and tungsten and the powder is in the form of 0.1-5 μ m spherical particles.

IPC 1-7

C06B 21/00; **C06B 33/08**

IPC 8 full level

C06B 21/00 (2006.01); **C06B 33/08** (2006.01)

CPC (source: EP US)

C06B 21/0058 (2013.01 - EP US); **C06B 33/08** (2013.01 - EP US)

Citation (search report)

- [X] DE 3804396 C1 19890518
- [A] US 3865035 A 19750211 - MUNSON WILLIAM O, et al
- [A] US 3255281 A 19660607 - ALEXANDER JR EARL L
- [A] US 5472531 A 19951205 - TURCI JOSEPH [US], et al
- [A] DE 4324739 C1 19940908 - DEUTSCHE AEROSPACE [DE] & HUOYAO JISHU, vol. 7, no. 4, 1991, pages 25 - 34
- [A] CHEMICAL ABSTRACTS, vol. 118, no. 16, 19 April 1993, Columbus, Ohio, US; abstract no. 150531t, S.T. CHEN ET AL.: "Aluminium particle shape effects on the performance of solid composite propellants" page 172; XP000354147

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)

DE 10058705 C1 20020228; DE 50107350 D1 20051013; EP 1211232 A2 20020605; EP 1211232 A3 20020814; EP 1211232 B1 20050907; NO 20015140 D0 20011022; NO 20015140 L 20020527; NO 321217 B1 20060403; US 2002096233 A1 20020725; US 6589374 B2 20030708

DOCDB simple family (application)

DE 10058705 A 20001125; DE 50107350 T 20011019; EP 01124918 A 20011019; NO 20015140 A 20011022; US 99192601 A 20011126