

Title (en)
THIN COMPOSITE EXPLOSIVE PRODUCTS AND PREPARATION THEREOF

Title (de)
DÜNNE ZUSAMMENGESETZTE EXPLOSIVE PRODUKTE UND HERSTELLUNG DAVON

Title (fr)
PRODUITS EXPLOSIFS COMPOSITES DE FAIBLE EPAISSEUR ET LEUR PREPARATION

Publication
EP 3221283 B1 20190724 (FR)

Application
EP 15804911 A 20151120

Priority
• FR 1402626 A 20141121
• FR 2015053158 W 20151120

Abstract (en)
[origin: WO2016079453A1] The present invention relates to composite explosive products and the preparation thereof. Said products have: - a composition, expressed in weight percentages, which contains: from more than 85 to 92%, advantageously from 88 to 90%, of organic energetic charges; said organic energetic charges a) being selected from octogen (HMX), hexogen (RDX), hexanitrohexaazaisowurtzitane (CL20) and penthrite (PETN) charges and mixtures thereof and b) having a particle size distribution with a D90 value of less than 15 µm and a D50 value of less than or equal to 5 µm; and from more than 7 to 12%, advantageously from 8 to 10%, of a polymeric rubber selected from polyurethane-polyester rubbers, polyurethane-polyether rubbers and mixtures thereof, the number-average molecular weight of which is greater than 20 000 g/mol and the Mooney viscosity of which is between 20 and 70 ML (5 + 4) at 100 °C; and - a thickness of from 0.4 to 5 mm, advantageously from 1 to 2 mm. Said products may in particular consist of miniaturized systems for multipoint initiation of explosive charges.

IPC 8 full level
C06B 21/00 (2006.01); **C06B 45/10** (2006.01); **C06B 45/12** (2006.01)

CPC (source: EP IL US)
C06B 21/0025 (2013.01 - EP IL US); **C06B 25/32** (2013.01 - IL US); **C06B 25/34** (2013.01 - IL US); **C06B 45/10** (2013.01 - EP IL US); **C06B 45/12** (2013.01 - EP IL US)

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)
WO 2016079453 A1 20160526; CA 2968255 A1 20160526; EP 3221283 A1 20170927; EP 3221283 B1 20190724; FR 3028852 A1 20160527; FR 3028852 B1 20170106; IL 252369 A0 20170731; IL 252369 B 20200730; US 2018346393 A1 20181206

DOCDB simple family (application)
FR 2015053158 W 20151120; CA 2968255 A 20151120; EP 15804911 A 20151120; FR 1402626 A 20141121; IL 25236917 A 20170518; US 201515527932 A 20151120