

Title (en)
EFFICIENT COMPOSITE PYROTECHNIC PRODUCT WITH NO LEAD IN THE COMPOSITION THEREOF AND PREPARATION OF SAME

Title (de)
EFFIZIENTES PYROTECHNISCHES VERBUNDPRODUKT OHNE BLEI IN DER ZUSAMMENSETZUNG UND HERSTELLUNG DAVON

Title (fr)
PRODUIT PYROTECHNIQUE COMPOSITE PERFORMANT SANS PLOMB DANS SA COMPOSITION ET SA PREPARATION

Publication
EP 3212594 B1 20180718 (FR)

Application
EP 15808698 A 20151027

Priority
• FR 1402431 A 20141028
• FR 2015052888 W 20151027

Abstract (en)
[origin: WO2016066945A1] The main subject of the present invention is an efficient composite pyrotechnic product, with no lead in the composition thereof, the production of which on an industrial scale does not encounter a problem of pot life of the intermediate paste. Said product contains, in a plasticized binder, comprising a crosslinked energetic polymer and at least one energetic plasticizer, organic energetic fillers and a combustion catalyst. Characteristically, said crosslinked energetic polymer consists of a polyglycidyl azide (PAG), having a number-average molecular mass (Mn) of between 700 and 3000 g/mol, crosslinked, via its terminal hydroxyl functions, with at least one crosslinking agent of polyisocyanate type, and said combustion catalyst consists of bismuth citrate.

IPC 8 full level
C06B 23/00 (2006.01); **C06B 45/10** (2006.01)

CPC (source: EP IL KR US)
C06B 23/007 (2013.01 - EP IL KR US); **C06B 45/105** (2013.01 - EP IL KR 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)
FR 3027597 A1 20160429; FR 3027597 B1 20161209; EP 3212594 A1 20170906; EP 3212594 B1 20180718; IL 251766 A0 20170629; IL 251766 B 20200430; JP 2017538648 A 20171228; JP 6510640 B2 20190508; KR 102621576 B1 20240105; KR 20170101897 A 20170906; PL 3212594 T3 20190131; US 2018290945 A1 20181011; WO 2016066945 A1 20160506

DOCDB simple family (application)
FR 1402431 A 20141028; EP 15808698 A 20151027; FR 2015052888 W 20151027; IL 25176617 A 20170418; JP 2017522927 A 20151027; KR 20177014380 A 20151027; PL 15808698 T 20151027; US 201515522608 A 20151027