

Title (en)

Non-toxic percussion primers and methods of preparing the same

Title (de)

Nicht- toxische Perkussionszündler und Verfahren zu ihrer Herstellung

Title (fr)

Amorces à percussion non toxiques et procédé de préparation de celles-ci

Publication

EP 2602238 A3 20141126 (EN)

Application

EP 13157579 A 20070209

Priority

- EP 13157579 A 20070209
- EP 07870653 A 20070209
- US 2007003806 W 20070209

Abstract (en)

[origin: WO2008100252A2] A percussion primer composition including at least one explosive, at least one nano-size non-coated fuel particle having natural surface oxides thereon, at least one oxidizer, optionally at least one sensitizer, optionally at least one buffer, and to methods of preparing the same.

IPC 8 full level

C06C 7/00 (2006.01); **C06B 23/00** (2006.01); **C06B 33/00** (2006.01)

CPC (source: EP)

C06B 23/006 (2013.01); **C06B 33/00** (2013.01); **C06C 7/00** (2013.01)

Citation (search report)

- [Y] US 2006113014 A1 20060601 - PUSZYNSKI JAN A [US], et al
- [Y] US 4133707 A 19790109 - ANDREW EUGENE A
- [Y] EP 0334725 A1 19890927 - NCS PYROTECHNIE & TECH [FR]
- [Y] DE 19606237 A1 19960829 - COMPANHIA BRASILEIRA DE CARTUC [BR]
- [Y] EP 1195366 A2 20020410 - R A BRANDS L L C [US]
- [Y] WO 9944968 A1 19990910 - SNC IND TECHNOLOGIES INC [CA], et al
- [Y] US 6544363 B1 20030408 - ERICKSON JACK A [US]
- [Y] EP 0699646 A1 19960306 - EUROPA METALLI SEZIONE DIFESA [IT]
- [Y] WO 2006009579 A2 20060126 - RA BRANDS LLC [US] & US 2005183805 A1 20050825 - PILE DONALD A [US], et al
- [Y] US 2006219341 A1 20061005 - JOHNSTON HAROLD E [US], et al
- [Y] WO 2006083379 A2 20060810 - SOUTH DAKOTA SCHOOL OF MINES A [US], et al
- [Y] US 3367805 A 19680206 - CLAY ROBERT B, et al
- [Y] US 3113059 A 19631203 - URSENBACH WAYNE O, et al
- [Y] WO 9612770 A1 19960502 - ELISHA TECHNOLOGIES CO L L C [US]
- [Y] WO 0206421 A1 20020124 - PROCTER & GAMBLE [US], et al
- [Y] DE 2513735 A1 19751002 - CALGON CORP
- [Y] MUELLER B: "Citric acid as corrosion inhibitor for aluminium pigment", CORROSION SCIENCE, OXFORD, GB, vol. 46, no. 1, 1 January 2004 (2004-01-01), pages 159 - 167, XP002507196, ISSN: 0010-938X, DOI: 10.1016/S0010-938X(03)00191-4

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

WO 2008100252 A2 20080821; WO 2008100252 A3 20090226; EP 2125673 A2 20091202; EP 2125673 B1 20200826;
EP 2602238 A2 20130612; EP 2602238 A3 20141126; EP 2602238 B1 20210728

DOCDB simple family (application)

US 2007003806 W 20070209; EP 07870653 A 20070209; EP 13157579 A 20070209