

Title (en)

A METHOD FOR PREPARING A SENSITISED EMULSION EXPLOSIVE

Title (de)

VERFAHREN ZUR HERSTELLUNG EINES SENSIBILISIERTEN EMULSIONSSPRENGSTOFFS

Title (fr)

PROCEDE RELATIF A L'ELABORATION D'UN EXPLOSIF A EMULSION SENSIBLE

Publication

EP 1458660 A1 20040922 (EN)

Application

EP 02783866 A 20021220

Priority

- NO 0200494 W 20021220
- NO 20016374 A 20011227

Abstract (en)

[origin: WO03055830A1] This invention relates to a method for rapid chemical gassing of an emulsion explosive without having toxic nitrogen oxides in the finished emulsion explosive product, when nitrite is used as the gassing component. Urea acts as a gassing accelerator and urea are added in the water lubrication solution or in both the water lubrication solution and in the gassing component. To achieve rapid gassing of an emulsion explosive, the emulsion is prepared at a pH in the range of 0-3, by using an organic acid having at least 3 carbon atoms.

IPC 1-7

C06B 47/14

IPC 8 full level

C06B 31/28 (2006.01); **C06B 23/00** (2006.01); **C06B 47/00** (2006.01); **C06B 47/14** (2006.01); **F42D 1/10** (2006.01)

CPC (source: EP KR)

C06B 23/004 (2013.01 - EP); **C06B 47/14** (2013.01 - KR); **C06B 47/145** (2013.01 - EP); **F42D 1/10** (2013.01 - EP)

Citation (search report)

See references of WO 03055830A1

Cited by

CN108349829A; EP3344595A4; US11203555B2; US10801823B2; US11346643B2

Designated contracting state (EPC)

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

DOCDB simple family (publication)

WO 03055830 A1 20030710; AT E371635 T1 20070915; AU 2002347688 A1 20030715; AU 2002347688 B2 20070607; BR 0215355 A 20041214; BR 0215355 B1 20111004; CA 2469783 A1 20030710; CA 2469783 C 20080212; CO 5590949 A2 20051230; DE 60222174 D1 20071011; DE 60222174 T2 20080612; EP 1458660 A1 20040922; EP 1458660 B1 20070829; ES 2292828 T3 20080316; JP 2005512937 A 20050512; JP 4138661 B2 20080827; KR 20040077691 A 20040906; NO 20016374 D0 20011227; NO 20016374 L 20030630; NO 315902 B1 20031110; PT 1458660 E 20071206; RU 2004119560 A 20060110; RU 2316529 C2 20080210; ZA 200405073 B 20050831

DOCDB simple family (application)

NO 0200494 W 20021220; AT 02783866 T 20021220; AU 2002347688 A 20021220; BR 0215355 A 20021220; CA 2469783 A 20021220; CO 04066834 A 20040714; DE 60222174 T 20021220; EP 02783866 A 20021220; ES 02783866 T 20021220; JP 2003556366 A 20021220; KR 20047010187 A 20021220; NO 20016374 A 20011227; PT 02783866 T 20021220; RU 2004119560 A 20021220; ZA 200405073 A 20040625