

Title (en)

Water-in-oil emulsions and process for the preparation thereof

Title (de)

Wasser-in-Öl Emulsionen und Verfahren zur deren Herstellung

Title (fr)

Emulsions eau-dans-huile et leur procédé de préparation

Publication

**EP 0561600 B1 20000913 (EN)**

Application

**EP 93301965 A 19930316**

Priority

US 85285992 A 19920317

Abstract (en)

[origin: EP0561600A2] This invention is directed to water-in-oil emulsions which are useful as explosives. These emulsions comprise: a discontinuous aqueous phase comprising at least one oxygen-supplying component; a continuous organic phase comprising at least one carbonaceous fuel; and a minor emulsifying amount of at least one emulsifier. The emulsifier is the product made by the reaction of component (A) with component (B), component (A) being at least one substituted succinic acylating agent, said substituted succinic acylating agent consisting of substituent groups and succinic groups wherein the substituent groups are derived from a polyalkene, said acylating agents being characterized by the presence within their structure of an average of at least 1.3 succinic groups for each equivalent weight of substituent groups, and component (B) being ammonia and/or at least one amine.

IPC 1-7

**C06B 47/00**

IPC 8 full level

**C06B 31/28** (2006.01); **C06B 45/08** (2006.01); **C06B 47/00** (2006.01); **C06B 47/14** (2006.01)

CPC (source: EP)

**C06B 47/00** (2013.01); **C06B 47/145** (2013.01)

Cited by

US5936194A; US5512079A; EP0994087A3; US6054493A; US5518517A; US6176893B1; EP0711741A1; US7413583B2; US7309684B2; WO0155059A1; WO0015740A1; WO03002487A1; US7176174B2; EP0711740A1; US6516840B1; US6719861B2; US6725653B2; US6527885B2; US6706838B2; US6648929B1; US6280485B1; US6858046B2; US6929707B2; US6951589B2; US6200398B1; US6949235B2; US6606856B1; US7028468B2; WO0155058A3; WO03027046A3; WO0040522A3

Designated contracting state (EPC)

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

DOCDB simple family (publication)

**EP 0561600 A2 19930922; EP 0561600 A3 19950517; EP 0561600 B1 20000913;** AT E196286 T1 20000915; AU 3522093 A 19930923; AU 667076 B2 19960307; BR 9300850 A 19930921; CA 2091405 A1 19930918; CA 2091405 C 20040518; CN 1076437 A 19930922; DE 69329402 D1 20001019; DE 69329402 T2 20010315; ES 2152239 T3 20010201; FI 931162 A0 19930316; FI 931162 A 19930918; MX 9301440 A 19930901; NO 930949 D0 19930316; NO 930949 L 19930920; RU 2127239 C1 19990310; ZA 931865 B 19931005

DOCDB simple family (application)

**EP 93301965 A 19930316;** AT 93301965 T 19930316; AU 3522093 A 19930316; BR 9300850 A 19930317; CA 2091405 A 19930310; CN 93102654 A 19930316; DE 69329402 T 19930316; ES 93301965 T 19930316; FI 931162 A 19930316; MX 9301440 A 19930316; NO 930949 A 19930316; RU 93004840 A 19930317; ZA 931865 A 19930316