Title (en)

Emulsion-containing explosive compositions.

Title (de)

Emulsionshaltige explosive Zusammensetzungen.

Title (fr)

Compositions explosives contenant une émulsion.

Publication

EP 0221701 A1 19870513 (EN)

Application

EP 86307930 A 19861014

Priority

US 78744285 A 19851015

Abstract (en)

In emulsion blend explosives, the replacement of coarse salt particles, e.g., prills, by fines, i.e., particles which pass a No. 50 U.S. sieve, increases the water resistance of the explosive without deleteriously affecting its shelf life provided that the explosive, prior to such replacement, is storage-stable as determined by the Salt Extraction and lead compression tests described herein. Products containing a combination of whole and crushed ammonium nitrate prills, and emulsions made with an anionic emulsifying agent such as a fatty acid salt, are preferred. Depending on the fines content and chemical composition, other properties such as sensitivity to initiation and detonation velocity also may be improved.

IPC 1-7

C06B 47/00; C06B 47/14

IPC 8 full level

C06B 45/18 (2006.01); **C06B 47/00** (2006.01); **C06B 47/14** (2006.01)

CPC (source: EP KR)

C06B 45/18 (2013.01 - KR); **C06B 47/00** (2013.01 - EP); **C06B 47/145** (2013.01 - EP)

Citation (search report)

- [X] EP 0123008 A1 19841031 - PRB NOBEL EXPLOSIFS SOCIETE AN [BE]
- [Y] EP 0131355 A2 19850116 - DU PONT [US]
- [A] US 4181546 A 19800101 - CLAY ROBERT B [US]
- [A] US 4525225 A 19850625 - CECHANSKI MICHAEL [SE]

Cited by

DE19649763A1; WO9117970A3

Designated contracting state (EPC)

AT BE CH DE ES FR GB IT LI NL SE

DOCDB simple family (publication)

EP 0221701 A1 19870513; AU 581154 B2 19890209; AU 6394386 A 19870416; BR 8605044 A 19870714; CA 1259492 A 19890919; CS 269987 B2 19900514; CS 745086 A2 19890912; IE 862703 L 19870415; IN 166325 B 19900414; JP S62171983 A 19870728; KR 870003960 A 19870506; KR 890003676 B1 19890930; MA 20795 A1 19870701; MX 164721 B 19920921; MY 100181 A 19900329; NO 168886 B 19920106; NO 168886 C 19920415; NO 864090 D0 19861014; NO 864090 L 19870611; NZ 217947 A 19890224; OA 08755 A 19890331; PT 83550 A 19861101; PT 83550 B 19881108; ZA 867821 B 19880629; ZM 9686 A1 19870327; ZW 20886 A1 19870401

DOCDB simple family (application)

EP 86307930 A 19861014; AU 6394386 A 19861015; BR 8605044 A 19861015; CA 520449 A 19861014; CS 745086 A 19861015; IE 270386 A 19861014; IN 744CA1986 A 19861014; JP 24330586 A 19861015; KR 860008656 A 19861015; MA 21025 A 19861015; MX 404086 A 19861015; MY PI19860018 A 19861014; NO 864090 A 19861014; NZ 21794786 A 19861015; OA 58979 A 19861015; PT 8355086 A 19861015; ZA 867821 A 19861015; ZM 9686 A 19861104; ZW 20886 A 19861014