

Title (en)
STABLE AMMONIUM NITRATE-EMULSION EXPLOSIVES AND EMULSION FOR USE THEREIN

Publication
EP 0131355 B1 19900328 (EN)

Application
EP 84303208 A 19840511

Priority
• US 49391683 A 19830512
• US 57660284 A 19840203

Abstract (en)
[origin: GB2140404A] Sensitised explosive blends of a water-in-oil emulsion and AN particles, e.g. AN or ANFO prills, have improved stability when their structure hinders the loss of water from the aqueous emulsion phase and transfer of such water across the oil phase to the AN particles. Such structure may be obtained by using an anionic emulsifying agent comprising a fatty acid salt, e.g. as formed in situ, to form the emulsion. Blends stabilised in this manner form storage-stable packaged products and can be pumped to boreholes through an annular stream of aqueous liquid flowing co-currently in the conduit. An emulsion is disclosed having a dispersed aqueous phase of oxidising salt solution and a continuous liquid carbonaceous fuel phase which contains a fatty acid and a fatty acid salt as an emulsifying system, the weight ratio of oil to fatty acid being in the range 1:1 to 3:1.

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IPC 8 full level
C06B 47/14 (2006.01)

CPC (source: EP KR)
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Cited by
CN105272783A; FR2624112A1; EP0221701A1; ES2123468A1; EP0331430A1; GB2216513A; CN1049417C; WO9112485A1; US6537399B2; WO9900342A1

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