

Title (en)

Process for conveying hydrates dispersed in production effluents

Title (de)

Verfahren zum Transport in Produktionsabströmungen dispergierter Hydrate

Title (fr)

Méthode pour transporter des hydrates en suspension dans des effluents de production

Publication

EP 0905350 B1 20050803 (FR)

Application

EP 98402297 A 19980917

Priority

FR 9712050 A 19970925

Abstract (en)

[origin: EP0905350A1] The addition of an amphiphilic non-ionic product, formed by the reaction between a polymerized unsaturated oil and an aminoalcohol enables the transport of suspended hydrates in fluids comprising water, gas and liquid hydrocarbons and inhibits agglomeration of the hydrates. The concentration of the incorporated additive is 0.1-5%, preferably 0.1-2%, relative to the water present. The fluid may comprise the hydrocarbons methane, ethane, ethylene, propane, propene and n-butane, possibly H₂S and/or CO₂, natural gas, petroleum gas and at least one liquid hydrocarbon. An Independent claim is also included for the preparation of the additive, by the reaction between a polymerized flax oil of viscosity (20 degrees C.) 5-60Pa.s. and diethanolamine. After the reaction, the product is conditioned in an aromatic solvent or one derived from an oil, vegetable or animal grease (preferably a methyl ester of colza oil) to give a mixture containing 20-80%, preferably 30-0%, of solvent.

IPC 1-7

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CPC (source: EP US)

C10L 3/00 (2013.01 - EP US); **C10L 3/06** (2013.01 - EP US); **F17D 1/16** (2013.01 - EP US); **Y10S 585/95** (2013.01 - EP US)

Cited by

US6492430B1; US6476081B1; FR2879189A1; EP1676896A1

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EP 0905350 A1 19990331; **EP 0905350 B1 20050803**; BR 9803505 A 19991207; CA 2245212 A1 19990325; CA 2245212 C 20070807; DK 0905350 T3 20051128; FR 2768637 A1 19990326; FR 2768637 B1 19991022; NO 326825 B1 20090223; NO 984457 D0 19980924; NO 984457 L 19990326; US 5958844 A 19990928

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EP 98402297 A 19980917; BR 9803505 A 19980924; CA 2245212 A 19980924; DK 98402297 T 19980917; FR 9712050 A 19970925; NO 984457 A 19980924; US 16028998 A 19980925