

Title (en)

PROCESS FOR REMOVING SOLID ASPHALT RESIDUES PRODUCED IN THE PETROLEUM INDUSTRY

Title (de)

VERFAHREN ZUR ENTFERNUNG VON BEI DER ERDÖLPRODUKTION ANFALLENDEN FESTEN ASPHALTRÜCKSTÄNDEN

Title (fr)

PROCEDE D'ELIMINATION DES RESIDUS SOLIDES D'ASPHALTE PRODUITS DANS L'INDUSTRIE PETROLIERE

Publication

EP 0966593 A1 19991229 (DE)

Application

EP 98910717 A 19980221

Priority

- DE 19708499 A 19970303
- EP 9801010 W 19980221

Abstract (en)

[origin: DE19708499A1] Fatty acid esters of general formula (I) $R_{<1>-}COO-(C_nH_{2n}O)_xR_{<2>-}$ are used to remove solid asphalt residues from the surface of petroleum industry installations or petroliferous formations around petroleum bore holes. In formula (I) $R_{<1>-}COO-(C_nH_{2n}O)_xR_{<2>-}$, $R_{<1>-}$ stands for an alkyl radical with 6 to 22 C atoms or for a $(CH_2)_mCOOR_{<4>-}$ radical, $R_{<2>-}$ and $R_{<4>-}$ independently representing an alkyl radical with 1 to 8 C atoms, n equals 2 or 3, m equals 1 to 6 and x equals 0 or a number from 1 to 12.

IPC 1-7

E21B 37/06

IPC 8 full level

C09K 8/524 (2006.01)

CPC (source: EP US)

C09K 8/524 (2013.01 - EP US)

Citation (search report)

See references of WO 9839549A1

Designated contracting state (EPC)

AT BE DE DK ES FI FR GB GR IE IT NL PT SE

DOCDB simple family (publication)

DE 19708499 A1 19980910; AR 010900 A1 20000712; BR 9808137 A 20000328; CA 2282322 A1 19980911; EP 0966593 A1 19991229; NO 994254 D0 19990902; NO 994254 L 19990902; US 6368422 B1 20020409; WO 9839549 A1 19980911

DOCDB simple family (application)

DE 19708499 A 19970303; AR P980100883 A 19980227; BR 9808137 A 19980221; CA 2282322 A 19980221; EP 9801010 W 19980221; EP 98910717 A 19980221; NO 994254 A 19990902; US 38069999 A 19991126