

Title (en)

USE OF REACTION PRODUCTS FROM ALCENYLSPIRODILACTONES AND AMINES AS PARAFFINDISPERSANTS

Publication

EP 0413279 B1 19921223 (DE)

Application

EP 90115457 A 19900811

Priority

DE 3926992 A 19890816

Abstract (en)

[origin: EP0413279A1] Use of reaction products of alkenyl-spirobis lactones of the formula <IMAGE> in which R is C8-C200-alkenyl in each case, with amines of the formula $NR_{<1>}R_{<2>}R_{<3>}$, where $R_{<1>}$, $R_{<2>}$ and $R_{<3>}$ can be identical or different and at least one of these groups $R_{<1>}$, $R_{<2>}$ or $R_{<3>}$ is C8-C36-alkyl, C8-C36-alkenyl or cyclohexyl and the other groups are hydrogen or a group of the formula $-(A-O)xH$ or $-(CH_2)_n-NYZ$, $A-C_2H_4-$ and/or $-C_3H_6-$, x is a number from 1 to 20, n is 2 or 3 and Y and Z can be identical or different and are hydrogen or a group of the formula $-(A-O)xH$, as paraffin dispersants in middle distillates and crude oil.

IPC 1-7

C10L 1/14; **C10L 1/22**

IPC 8 full level

C10L 1/14 (2006.01); **C10L 1/22** (2006.01); **C10L 10/14** (2006.01); **C10L 10/18** (2006.01)

CPC (source: EP US)

C10L 1/143 (2013.01 - EP US); **C10L 1/146** (2013.01 - EP US); **C10L 1/221** (2013.01 - EP US)

Cited by

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Designated contracting state (EPC)

DE GB NL SE

DOCDB simple family (publication)

EP 0413279 A1 19910220; **EP 0413279 B1 19921223**; CA 2023299 A1 19910217; DE 3926992 A1 19910221; DE 59000652 D1 19930204; JP H03115492 A 19910516; NO 903593 D0 19900815; NO 903593 L 19910218; US 5186720 A 19930216

DOCDB simple family (application)

EP 90115457 A 19900811; CA 2023299 A 19900815; DE 3926992 A 19890816; DE 59000652 T 19900811; JP 21379790 A 19900814; NO 903593 A 19900815; US 56796690 A 19900815