Title (en)

ADDITIVES FOR USE AS POUR POINT DISPERSANTS FOR MIDDLE DISTILLATE HYDROCARBONS, AND COMPOSITIONS OF MIDDLE DISTILLATE HYDROCARBONS CONTAINING SAID ADDITIVES

Publication

EP 0071513 B1 19861120 (FR)

Application

EP 82401335 A 19820716

Priority

FR 8114870 A 19810730

Abstract (en)

[origin: US4652273A] A hydrocarbon middle distillate contains an additive for decreasing its cloud point, obtained by reacting an aliphatic dicarboxylic compound selected from the maleic and alkylmaleic anhydrides, the alkenylsuccinic and polyalkenylsuccinic anhydrides and the corresponding dicarboxylic acids and lower alkyl diesters with a compound of the formula: R-Z-(CH2)nNH]mH or HO-CH2-R5-NH2 wherein R is a monovalent saturated aliphatic radical, Z is NR' or O, R' being hydrogen or an aliphatic radical, n is an integer from 2 to 4, m is zero or an integer from 1 to 4 and R5 is a divalent saturated aliphatic radical.

IPC 1-7

C10L 1/22; C07C 103/00

IPC 8 full level

C10L 1/18 (2006.01); **C10L 1/188** (2006.01); **C10L 1/22** (2006.01); **C10L 1/224** (2006.01); **C10L 1/2383** (2006.01)

CPC (source: EP US)

C10L 1/224 (2013.01 - EP US); **C10L 1/2383** (2013.01 - EP US)

Citation (examination)

- EP 0074199 A2 19830316 - LUBRIZOL CORP [US]
- EP 0100248 A1 19840208 - INST FRANCAIS DU PETROLE [FR], et al

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WO9413758A1; FR2539754A1; GR880100284A; EP0411811A1; FR2699551A1; FR2699550A1; GB2242190A; US5814110A; EP0593331A1; US5449386A; EP0353116A1; FR2633638A1; US6860908B2; WO2014173844A1; WO2012085865A1; WO2013189868A1; WO2010073233A2; WO2013092533A1; WO2013007738A1; WO2013120985A1; WO2011001352A1; WO2012107454A1; WO2014029770A1; EP3144059A1; WO2017046344A1; WO2018033684A1; EP0086049B1

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