

Title (en)

RECIPES OF NITROGENOUS ADDITIVES FOR ENGINE FUELS, AND ENGINE FUELS CONTAINING THEM

Publication

EP 0353116 B1 19920415 (FR)

Application

EP 89401846 A 19890628

Priority

FR 8808900 A 19880629

Abstract (en)

[origin: US4976746A] Formulations of additives for engine fuels comprising at least one constituent (A) and one constituent (B) resulting from the reaction of at least one alkenyl or polyalkenyl-succinic derivative with at least one polyamine to form constituent (A) and with at least one 1-(2-hydroethyl) imidazoline substituted in the 2-position by a linear or branched alkyl or alkenyl radical with 1 to 25 atoms of carbon to form constituent (B). The preferred formulations also contain a constituent (C) consisting of at least one polyglycol soluble in said fuel, with an average molecular mass ranging from 480 to 2,100. The (A)/(B) and (A)+(B)/(C) molar ratios preferably are respectively 0.2/1 to 5/1 and 0.05/1 and 20/1.

IPC 1-7

C10L 1/14; C10L 1/22

IPC 8 full level

C10L 1/18 (2006.01); **C10L 1/14** (2006.01); **C10L 1/188** (2006.01); **C10L 1/192** (2006.01); **C10L 1/22** (2006.01)

CPC (source: EP US)

C10L 1/143 (2013.01 - EP US); **C10L 1/22** (2013.01 - EP US); **C10L 1/146** (2013.01 - EP US); **C10L 1/1985** (2013.01 - EP US); **C10L 1/224** (2013.01 - EP US); **C10L 1/232** (2013.01 - EP US); **C10L 1/238** (2013.01 - EP US); **C10L 1/2383** (2013.01 - EP US); **C10L 1/2387** (2013.01 - EP US)

Cited by

FR2710652A1; FR2839315A1; EP0411811A1; FR2699550A1; US2011296746A1; US10035757B2; US6860908B2; WO9509220A1; WO03095593A1; WO9413758A1; US10167249B2; US10207983B2

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