

Title (en)
Detergent additive for fuels.

Title (de)
Reinigungszusatz für Kraftstoffe.

Title (fr)
Additif détergent pour combustibles.

Publication
EP 0486097 A1 19920520 (EN)

Application
EP 91202897 A 19911108

Priority
IT 2207290 A 19901115

Abstract (en)
Detergent additive for liquid fuels, obtained by means of the trans-esterification of a tertiary amine bearing at least two hydroxy functions, with a dialkyl carbonate and a higher aliphatic alcohol, and process for preparing said detergent additive.

IPC 1-7
C10L 1/22

IPC 8 full level
C10L 1/18 (2006.01); **C10L 1/19** (2006.01); **C10L 1/22** (2006.01); **C10L 1/222** (2006.01); **C10L 1/238** (2006.01); **C10L 10/04** (2006.01)

CPC (source: EP KR)
C10L 1/14 (2013.01 - KR); **C10L 1/2225** (2013.01 - EP); **C10L 1/238** (2013.01 - EP)

Citation (search report)

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Designated contracting state (EPC)
AT BE CH DE DK ES FR GB GR LI LU NL SE

DOCDB simple family (publication)
EP 0486097 A1 19920520; EP 0486097 B1 19960228; AT E134699 T1 19960315; BR 9104962 A 19920623; CA 2055573 A1 19920516; CS 345291 A3 19920617; CZ 282836 B6 19971015; DE 69117442 D1 19960404; DE 69117442 T2 19960814; DK 0486097 T3 19960429; ES 2084092 T3 19960501; GR 3019262 T3 19960630; HU 210794 B 19950728; HU 913575 D0 19920128; HU T59441 A 19920528; IT 1245738 B 19941014; IT 9022072 A0 19901115; IT 9022072 A1 19920515; JP H04292690 A 19921016; KR 920009955 A 19920625; KR 940008390 B1 19940914; MX 173928 B 19940408; PL 167977 B1 19951230; PL 292412 A1 19920727; RU 2036954 C1 19950609; SG 54114 A1 19981116

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EP 91202897 A 19911108; AT 91202897 T 19911108; BR 9104962 A 19911114; CA 2055573 A 19911114; CS 345291 A 19911114; DE 69117442 T 19911108; DK 91202897 T 19911108; ES 91202897 T 19911108; GR 960400663 T 19960312; HU 357591 A 19911114; IT 2207290 A 19901115; JP 32707891 A 19911115; KR 910020218 A 19911114; MX 9102064 A 19911114; PL 29241291 A 19911115; SG 1996000656 A 19911108; SU 5010309 A 19911114