

Title (en)

Detergent composition and method for its preparation

Title (de)

Waschmittelzusammensetzung und Verfahren zu seiner Herstellung

Title (fr)

Composition détergente et méthode pour sa fabrication

Publication

EP 0586323 B2 20051102 (EN)

Application

EP 93500108 A 19930720

Priority

- EP 93500108 A 19930720
- EP 92500092 A 19920720

Abstract (en)

[origin: EP0586323A1] Detergent composition comprising the compounds represented by the formula (I) + (II) wherein the weight ratio of mono, di and tri-ester is 46-90/9-30/1-15, <CHEM> wherein: - "B" represents "H" or the group represented by <CHEM> provided that R represents alkyl or alkenyl group having C6-22. R' represents H or CH3, and each of n, m and 1 independently represents an integer from 0 to 40; being m+n+1=2-100 preferably 9-19. The new detergent composition shows outstanding biodegradable, non-toxic, non-irritant performance, foam stability and better dye inhibition transfer maintaining and even improving detergency.

IPC 1-7

C11D 1/74

IPC 8 full level

C11D 1/74 (2006.01)

CPC (source: EP)

C11D 1/74 (2013.01)

Citation (opposition)

Opponent :

- BE 866868 A 19781109 - ASHLAND OIL INC
- DE 2024051 C3 19860507
- IV. Internationale Tagung über Grenzflächenaktive Stoffe, Berlin, 1974 - Abhandlung der Akademie der Wissenschaft der DDR, Jahrgang 1976, Nr. 1N, Akademie Verlag Berlin, 1977, pp. 119-121
- Technical brochure "Cetiol HE", Henkel KGaA, April 1980

Cited by

EP2497844A1; EP4442327A1; WO2012120143A1; JP2014528922A; US2016222319A1; US5731281A; GR1003582B; US5599785A; ES2185497A1; US5716925A; ES2293825A1; US5741760A; US5861367A; US5549840A; US5767050A; US5854193A; US5593958A; US6017868A; US5776880A; US5759983A; EP0684302A1; EP0668346A1; EP1600532A1; CN105555938A; JP2016535153A; US5476614A; EP0702079A3; EP1045021A1; USRE38639E; EP0707059A3; CN103764611A; US6544938B1; EP2666848A1; US11505746B2; WO2015040362A1; WO2013024363A1; WO9825455A1; WO9514765A1; WO9906507A1; WO9928424A1; WO9859031A1; WO9622347A1; WO9523204A1; US6265373B1; US9181393B2; EP0660872A1; EP2202219A1; WO2010072810A1; US10045529B2; US9663431B2; WO2018085064A1; US11136528B2; WO9629389A1; WO9626262A1; WO2018111746A1

Designated contracting state (EPC)

AT BE DE ES FR GB IT NL

DOCDB simple family (publication)

EP 0586323 A1 19940309; EP 0586323 B1 19960410; EP 0586323 B2 20051102; AT E136579 T1 19960415; DE 69302151 D1 19960515; DE 69302151 T2 19961205; DE 69302151 T3 20060614; ES 2088254 T3 19960801; ES 2088254 T5 20060416

DOCDB simple family (application)

EP 93500108 A 19930720; AT 93500108 T 19930720; DE 69302151 T 19930720; ES 93500108 T 19930720