

Title (en)

AUTOMATIC DISHWASHING COMPOSITIONS COMPRISING SELECTED NONIONIC SURFACTANTS

Title (de)

MASCHINENGESCHIRRSPÜLMITTEL ENTHALTEND AUSGEWÄHLTE NICHTIONISCHE TENSIDE

Title (fr)

COMPOSITIONS DETERGENTES POUR LAVE-VAISSELLE COMPORTANT DES SURFACTANTS NON IONIQUES SELECTIONNES

Publication

EP 1155105 B1 20060426 (EN)

Application

EP 00908588 A 20000210

Priority

- US 0003455 W 20000210
- US 12103499 P 19990222

Abstract (en)

[origin: WO0050551A1] Automatic dishwashing detergent compositions comprising: a) 5 % to 90 % by weight of builder; b) 0.1 % to 15 % by weight of: i) a surfactant of the formula $R_{<1>}(EO)_a(PO)_b(BO)_c$, wherein $R_{<1>}$ is a linear or branched C6 to C20 alkyl; a is from 2 to 30; b is from 0 to 30; c is from 1 to 30; and said surfactant has an X/Y number less than 1.90; and or ii) a surfactant of the formula $R_{<1>}O[CH_2CH(R_{<3>})_eR_{<2>}]$, wherein $R_{<1>}$ is a hydrocarbon radical having from 1 to 30 carbon atoms; $R_{<2>}$ is a hydrocarbon radical having 1 to 30 carbon atoms; $R_{<3>}$ is H, or a linear aliphatic hydrocarbon radical having from 1 to 4 carbon atoms; e is an integer having an average value from 1 to 40; c) optionally, from 0.1 % to 40 % by weight of a bleaching agent and d) adjunct materials, such as enzymes, surfactants other than (b), or chelating agents.

IPC 8 full level

C11D 1/72 (2006.01); **C11D 1/722** (2006.01); **C11D 1/825** (2006.01); **C11D 3/39** (2006.01)

CPC (source: EP)

C11D 1/721 (2013.01); **C11D 1/722** (2013.01); **C11D 1/8255** (2013.01); **C11D 3/3932** (2013.01)

Cited by

WO2014032700A1

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU NL PT SE

DOCDB simple family (publication)

WO 0050551 A1 20000831; AT E324426 T1 20060515; AU 2990000 A 20000914; CA 2369120 A1 20000831; DE 60027549 D1 20060601; DE 60027549 T2 20070426; EP 1155105 A1 20011121; EP 1155105 B1 20060426; JP 2002537484 A 20021105; MX PA01008526 A 20020604

DOCDB simple family (application)

US 0003455 W 20000210; AT 00908588 T 20000210; AU 2990000 A 20000210; CA 2369120 A 20000210; DE 60027549 T 20000210; EP 00908588 A 20000210; JP 2000601115 A 20000210; MX PA01008526 A 20000210