

Title (en)

Cleaning of hard surfaces using rheopexic aqueous cleaning agents

Title (de)

Reinigung harter Oberflächen mit rheopexen wässrigen Reinigungsmitteln

Title (fr)

Nettoyage de surfaces dures à l'aide d'agents rhéopexiques en milieu aqueux

Publication

**EP 0928829 B1 20030903 (DE)**

Application

**EP 98124398 A 19981223**

Priority

DE 19800392 A 19980108

Abstract (en)

[origin: EP0928829A1] Detergent concentrate contains (a) 0.5-10 wt.% quaternary ammonium compound(s) (I), (b) 5-40 wt.% water-soluble alkali (II) selected from alkali hydroxide(s) and/or alkanolamine(s), (c) 0.1-10 wt.% alkyl polyglycoside(s) (III) and (d) 5-20 wt.% solvent aid (IV) selected from water-soluble alcohol(s) and/or glycol ether(s). Detergent concentrate contains (a) 0.5-10 wt.% quaternary ammonium compound(s) of formula (I), (b) 5-40 wt.% water-soluble alkali (II) selected from alkali hydroxide(s) and/or alkanolamine(s), (c) 0.1-10 wt.% alkyl polyglycoside(s) of formula (III) and (d) 5-20 wt.% solvent aid (IV) selected from water-soluble alcohol(s) and/or glycol ether(s); R<1> = 1-6C alk(en)yl or aryl; R<2>, R<3>, R<4>, R<9> = 2-4C alkylene; R<5>, R<6>, R<7> = 6-20C aliphatic or aromatic acyl or, for up to 2 groups, hydrogen (H); R<8> = 6-30C (hydroxy)alkyl, alkenyl or aryl; -O-Z = a glycosyl radical of a reducing sugar with 5-6 C; Y<-> = an (in)organic anion; x = 1-10; y = 0-12.

IPC 1-7

**C11D 11/00**; **C11D 17/00**; **C11D 1/62**; **C11D 1/66**; **C11D 3/43**; **C11D 1/835**

IPC 8 full level

**C11D 1/62** (2006.01); **C11D 1/66** (2006.01); **C11D 1/835** (2006.01); **C11D 3/20** (2006.01); **C11D 3/43** (2006.01); **C11D 11/00** (2006.01); **C11D 17/00** (2006.01)

CPC (source: EP)

**C11D 1/835** (2013.01); **C11D 3/2003** (2013.01); **C11D 3/201** (2013.01); **C11D 3/2068** (2013.01); **C11D 1/62** (2013.01); **C11D 1/662** (2013.01); **C11D 3/2041** (2013.01); **C11D 3/2065** (2013.01); **C11D 2111/14** (2024.01)

Cited by

CN108822987A; KR101379303B1; EP1178106A1; EP1247591A3; US7307053B2; US7588647B2; EP1619237A1; EP2617805A1; US9611448B2; EP1179039B2

Designated contracting state (EPC)

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

DOCDB simple family (publication)

**EP 0928829 A1 19990714**; **EP 0928829 B1 20030903**; AT E248907 T1 20030915; DE 19800392 A1 19990715; DE 19800392 C2 20021002; DE 59809484 D1 20031009; DK 0928829 T3 20031222; ES 2209046 T3 20040616

DOCDB simple family (application)

**EP 98124398 A 19981223**; AT 98124398 T 19981223; DE 19800392 A 19980108; DE 59809484 T 19981223; DK 98124398 T 19981223; ES 98124398 T 19981223