Title (en)

DETERGENT COMPOSITION COMPRISING CATIONIC AMINES AND CELLULASE ENZYMES

Title (de)

WASCHMITTELZUSAMMENSETZUNGEN, DIE KATIONISCHE AMINE UND CELLULASE-ENZYME ENTHALTEN

Title (fr)

COMPOSITION DETERGENTE A BASE D'AMINES CATIONIQUES ET D'ENZYMES CELLULASES

Publication

EP 0929643 A4 20000105 (EN)

Application

EP 97943527 A 19970922

Priority

- GB 9619929 A 19960924
- US 9717076 W 19970922

Abstract (en)

[origin: GB2317395A] Granular detergent compositions or component thereof contain a cellulolytic enzyme and one or more cationic compounds, which are cationic, (partially) quaternized ethoxylated (poly)amine compounds with clay-soil removal / anti-redeposition properties.

IPC 1-7

C11D 3/386; C11D 3/30; C11D 3/37

IPC 8 full level

C11D 3/00 (2006.01); **C11D 3/37** (2006.01); **C11D 3/386** (2006.01); **C11D 17/06** (2006.01)

CPC (source: EP)

C11D 3/0036 (2013.01); **C11D 3/3723** (2013.01); **C11D 3/38645** (2013.01)

Citation (search report)

- [E] WO 9744417 A1 19971127 - PROCTER & GAMBLE [US], et al
- [DY] US 4664848 A 19870512 - OH YOUNG S [US], et al & EP 0111965 A2 19840627 - PROCTER & GAMBLE [US]
- [Y] WO 9533031 A1 19951207 - PROCTER & GAMBLE [US]
- See also references of WO 9813464A1

Designated contracting state (EPC)

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

DOCDB simple family (publication)

GB 2317395 A 19980325; **GB 9619929 D0 19961106**; AR 010476 A1 20000628; AU 4497897 A 19980417; CA 2265901 A1 19980402; CN 1238803 A 19991215; CZ 102299 A3 19990811; EP 0929643 A1 19990721; EP 0929643 A4 20000105; HU 9904670 A2 20000528; HU 9904670 A3 20010228; JP 2000503064 A 20000314; TR 199900657 T2 19990621; WO 9813464 A1 19980402

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