

Title (en)
DETERGENT COMPOSITIONS

Title (de)
WASCHMITTELZUSAMMENSETZUNGEN

Title (fr)
COMPOSITIONS DETERGENTES

Publication
EP 0934389 A4 20010207 (EN)

Application
EP 97909943 A 19971002

Priority

- GB 9621799 A 19961018
- GB 9621791 A 19961018
- GB 9705817 A 19970320
- US 9717815 W 19971002

Abstract (en)
[origin: WO9817767A1] The present invention relates to detergent compositions or components thereof containing an amylolytic enzyme and one or more cationic surfactants of the formula: R<1>R<2>R<3>R<4>N<+> X<->, in which R<1> is a hydroxyalkyl group having no greater than 6 carbon atoms; each of R<2> and R<3> is independently selected from C1-4 alkyl or alkenyl; R<4> is a C5-11 alkyl or alkenyl; and X<-> is a counterion.

IPC 1-7
C11D 3/386; **C11D 1/62**

IPC 8 full level
C11D 1/22 (2006.01); **C11D 1/28** (2006.01); **C11D 1/62** (2006.01); **C11D 1/65** (2006.01); **C11D 1/66** (2006.01); **C11D 1/835** (2006.01); **C11D 1/86** (2006.01); **C11D 3/10** (2006.01); **C11D 3/12** (2006.01); **C11D 3/37** (2006.01); **C11D 3/386** (2006.01); **C11D 3/39** (2006.01); **C11D 17/00** (2006.01); **C11D 1/14** (2006.01); **C11D 1/52** (2006.01); **C11D 1/72** (2006.01)

CPC (source: EP)
C11D 1/22 (2013.01); **C11D 1/28** (2013.01); **C11D 1/62** (2013.01); **C11D 1/65** (2013.01); **C11D 1/66** (2013.01); **C11D 1/835** (2013.01); **C11D 1/86** (2013.01); **C11D 3/10** (2013.01); **C11D 3/1273** (2013.01); **C11D 3/128** (2013.01); **C11D 3/37** (2013.01); **C11D 3/3723** (2013.01); **C11D 3/386** (2013.01); **C11D 3/38645** (2013.01); **C11D 3/3942** (2013.01); **C11D 3/3945** (2013.01); **C11D 17/0069** (2013.01); **C11D 1/143** (2013.01); **C11D 1/146** (2013.01); **C11D 1/525** (2013.01); **C11D 1/662** (2013.01); **C11D 1/72** (2013.01)

Citation (search report)

- [X] EP 0095205 A1 19831130 - PROCTER & GAMBLE [US]
- [X] WO 9316158 A1 19930819 - PROCTER & GAMBLE [US]
- [X] WO 9529217 A1 19951102 - PROCTER & GAMBLE [US]
- [PX] WO 9712018 A1 19970403 - PROCTER & GAMBLE [US], et al
- See also references of WO 9817767A1

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)
WO 9817767 A1 19980430; AR 010001 A1 20000517; AT E256173 T1 20031215; BR 9712360 A 20010619; CA 2268772 A1 19980430; CA 2268772 C 20081209; DE 69726747 D1 20040122; DE 69726747 T2 20041014; EP 0934389 A1 19990811; EP 0934389 A4 20010207; EP 0934389 B1 20031210; ES 2210501 T3 20040701; HU P0000117 A2 20000628; MA 24378 A1 19980701; MX 228479 B 20050614; MX 9903628 A 19990831

DOCDB simple family (application)
US 9717815 W 19971002; AR P970104801 A 19971017; AT 97909943 T 19971002; BR 9712360 A 19971002; CA 2268772 A 19971002; DE 69726747 T 19971002; EP 97909943 A 19971002; ES 97909943 T 19971002; HU P0000117 A 19971002; MA 24837 A 19971017; MX 9903628 A 19990419