

Title (en)
DETERGENT COMPOSITIONS.

Title (de)
WASCHMITTELZUSAMMENSETZUNGEN.

Title (fr)
COMPOSITIONS DETERSIVES.

Publication
EP 0652933 A4 19960918 (EN)

Application
EP 93918298 A 19930721

Priority
• GB 9216409 A 19920801
• US 9306876 W 19930721

Abstract (en)
[origin: WO9403572A1] Granular detergent compositions comprising ethylenediamine-N,N'-disuccinic acid or salts thereof and a crystalline layered sodium silicate of formula $\text{LMSi}_x\text{O}_2\text{xH}_2\text{O}$ wherein L is an alkali metal, and M is sodium or hydrogen, x is a number from 1.9 to 4 and y is a number from 0 to 20 are provided. The compositions also preferably comprise surfactant and additional non-phosphate detergent builder compounds.

IPC 1-7
C11D 3/08; C11D 3/12; C11D 3/33; C11D 7/14; C11D 7/60

IPC 8 full level
C11D 1/14 (2006.01); **C11D 1/29** (2006.01); **C11D 1/52** (2006.01); **C11D 1/68** (2006.01); **C11D 3/08** (2006.01); **C11D 3/12** (2006.01); **C11D 3/30** (2006.01); **C11D 3/33** (2006.01); **C11D 3/39** (2006.01)

CPC (source: EP KR)
C11D 3/08 (2013.01 - KR); **C11D 3/1273** (2013.01 - EP); **C11D 3/33** (2013.01 - EP)

Citation (search report)
• [A] WO 9203525 A1 19920305 - PROCTER & GAMBLE [US]
• [A] WO 9206151 A1 19920416 - PROCTER & GAMBLE [US]
• [A] WO 9209680 A1 19920611 - PROCTER & GAMBLE [US]
• See references of WO 9403572A1

Designated contracting state (EPC)
AT BE CH DE DK ES FR GB GR IE IT LI LU NL PT SE

DOCDB simple family (publication)
WO 9403572 A1 19940217; AT E184642 T1 19991015; AU 4779693 A 19940303; AU 671294 B2 19960822; CA 2141610 A1 19940217; CA 2141610 C 19990413; CN 1035067 C 19970604; CN 1084556 A 19940330; DE 69326471 D1 19991021; DE 69326471 T2 20000504; DK 0652933 T3 19991220; EP 0652933 A1 19950517; EP 0652933 A4 19960918; EP 0652933 B1 19990915; ES 2135484 T3 19991101; GB 9216409 D0 19920916; GR 3031211 T3 19991231; JP 3474188 B2 20031208; JP H07509526 A 19951019; KR 950703049 A 19950823; MA 22949 A1 19940401; MX 9304664 A 19940331; TR 28606 A 19961104

DOCDB simple family (application)
US 9306876 W 19930721; AT 93918298 T 19930721; AU 4779693 A 19930721; CA 2141610 A 19930721; CN 93117441 A 19930731; DE 69326471 T 19930721; DK 93918298 T 19930721; EP 93918298 A 19930721; ES 93918298 T 19930721; GB 9216409 A 19920801; GR 990402279 T 19990916; JP 50535994 A 19930721; KR 19950700420 A 19950202; MA 23252 A 19930730; MX 9304664 A 19930802; TR 68993 A 19930730