

Title (en)
DETERGENT COMPOSITIONS.

Title (de)
WASCHMITTELZUSAMMENSETZUNGEN.

Title (fr)
COMPOSITIONS DETERSIVES.

Publication
EP 0652933 A1 19950517 (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 $LMSixO_2xH.yH_2O$ 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)

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