

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

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