

Title (en)  
DETERGENT BUILDER

Publication  
**EP 0191187 A3 19870826 (DE)**

Application  
**EP 85115963 A 19851213**

Priority  
DE 3504451 A 19850209

Abstract (en)  
[origin: US4668420A] A granulated detergent builder is disclosed comprising: 65 to 85 weight percent of a water insoluble silicate capable of binding calcium, in the form of a finely dispersed, bound-water-containing, synthetically produced, water insoluble crystalline compound having the general formula:  $(\text{Cat}_2/\text{nO})_x.\text{Me}_2\text{O}_3.(\text{SiO}_2)_y$  (I), in which Cat is a cation exchangeable with calcium with the valency n, x is a number from 0.7 to 1.5, Me is boron or aluminum, and y a number from 0.8 to 6, 4 to 10 weight percent sodium nitrilotriacetate 1.5 to 3 weight percent nonionic surfactant 0 to 1 weight percent alkali 0.5 to 1.5 weight percent carboxymethyl cellulose and/or methylcellulose and the balance is water. The product can be produced by spray drying an aqueous suspension in which all ingredients are dispersed or dissolved.

IPC 1-7  
**C11D 3/12**; **C11D 3/22**; **C11D 3/33**

IPC 8 full level  
**C11D 3/12** (2006.01); **C11D 3/22** (2006.01); **C11D 3/33** (2006.01)

CPC (source: EP US)  
**C11D 3/128** (2013.01 - EP US); **C11D 3/225** (2013.01 - EP US); **C11D 3/33** (2013.01 - EP US)

Citation (search report)  
• [Y] DE 3120744 A1 19821209 - BENCKISER GMBH JOH A [DE]  
• [Y] DE 3132767 A1 19830310 - DEGUSSA [DE]  
• [Y] EP 0013028 A1 19800709 - HENKEL KGAA [DE]

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