

Title (en)  
SOFTENING DETERGENT

Publication  
**EP 0277571 A3 19900321 (DE)**

Application  
**EP 88101001 A 19880125**

Priority  
DE 3702968 A 19870202

Abstract (en)  
[origin: US4839075A] Granular, phosphate-reduced, builder-containing detergent compositions containing a combination of natural layer silicates and fatty acid condensates. The fatty acid condensates are prepared by reaction of fatty acid triglycerides and hydroxyalkyl polyamines. The detergent compositions have an excellent softening effect both at low and high washing temperatures. The compositions provide synergistic softening effects, particularly at low temperatures.

IPC 1-7  
**C11D 3/12**; **C11D 1/48**

IPC 8 full level  
**C11D 1/48** (2006.01); **C11D 3/12** (2006.01)

CPC (source: EP US)  
**C11D 1/48** (2013.01 - EP US); **C11D 3/126** (2013.01 - EP US)

Citation (search report)

- [AD] FR 2040417 A1 19710122 - HENKEL & CIE GMBH
- [A] EP 0133804 A2 19850306 - PROCTER & GAMBLE [US], et al
- [A] GB 2141152 A 19841212 - COLGATE PALMOLIVE CO
- [A] EP 0026528 A1 19810408 - PROCTER & GAMBLE [US], et al

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US5300236A; EP0614966A3

Designated contracting state (EPC)  
AT BE CH DE ES FR GB IT LI NL

DOCDB simple family (publication)  
**EP 0277571 A2 19880810**; **EP 0277571 A3 19900321**; DE 3702968 A1 19880811; JP S63193997 A 19880811; US 4839075 A 19890613

DOCDB simple family (application)  
**EP 88101001 A 19880125**; DE 3702968 A 19870202; JP 2485488 A 19880202; US 15138888 A 19880202