

Title (en)  
Water-softening compositions

Title (de)  
Wasserenthärtende Formulierungen

Title (fr)  
Compositions pour adoucir l'eau

Publication  
**EP 0622449 B1 19990506 (DE)**

Application  
**EP 94104833 A 19940326**

Priority  
DE 4313908 A 19930428

Abstract (en)  
[origin: EP0622449A2] The invention relates to the use of water-softening compositions which contain (a) biodegradable copolymers, (b) inorganic water-softening silicates and, where appropriate, (c) further inorganic salts, (d) dispersants and complexing agents and (e) surfactants as well as other customary additives. These compositions are distinguished by better biodegradability.

IPC 1-7  
**C11D 3/37**; **C11D 3/12**

IPC 8 full level  
**C11D 3/12** (2006.01); **C11D 3/37** (2006.01)

CPC (source: EP US)  
**C11D 3/1273** (2013.01 - EP US); **C11D 3/128** (2013.01 - EP US); **C11D 3/3761** (2013.01 - EP US)

Citation (examination)

- EP 0425068 A2 19910502 - AUSIDET SRL [IT]
- EP 0497611 A1 19920805 - ROHM & HAAS [US]
- WO 9415978 A1 19940721 - STOCKHAUSEN CHEM FAB GMBH [DE], et al

Cited by  
US6207780B1; EP0625567B1; WO9635728A1

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

DOCDB simple family (publication)  
**EP 0622449 A2 19941102**; **EP 0622449 A3 19941221**; **EP 0622449 B1 19990506**; AT E179750 T1 19990515; DE 4313908 A1 19941103; DE 59408197 D1 19990610; DK 0622449 T3 19991115; ES 2132273 T3 19990816; US 5575946 A 19961119

DOCDB simple family (application)  
**EP 94104833 A 19940326**; AT 94104833 T 19940326; DE 4313908 A 19930428; DE 59408197 T 19940326; DK 94104833 T 19940326; ES 94104833 T 19940326; US 23395594 A 19940428