

Title (en)

WASHING AND CLEANING AGENTS WITH BUILDER SUBSTANCES

Title (de)

WASCH- UND REINIGUNGSMITTEL MIT BUILDERSUBSTANZEN

Title (fr)

PRODUITS DE LAVAGE ET DE NETTOYAGE CONTENANT DES ADJUVANTS

Publication

**EP 0658189 B1 19960918 (DE)**

Application

**EP 93919191 A 19930826**

Priority

- DE 4229660 A 19920904
- EP 9302310 W 19930826

Abstract (en)

[origin: WO9405764A1] The object of the invention is to obtain granulated washing and cleaning agents having the usual composition, a primary washing and cleaning power comparable to the primary washing and cleaning power of usual commercially-available products, but whose secondary washing power has big advantages. For that purpose, agents are used which contain determined polymer polycarboxylates as granulated builder components. Preferred textile washing agents contain 8 to 40 % by weight anionic and non-ionic surfactants, including soap, 15 to 45 % by weight zeolite and/or crystalline layered silicates, in particular zeolite, 0.5 to 8 % by weight sodium or potassium carbonate and 0.5 to 15 % by weight, preferably 2 to 10 % by weight, in particular 3 to 5 % by weight, granulated polymer polycarboxylates. These agents may be produced in the usual manner by mixing at least two granulated components, of which one contains the polymer polycarboxylate.

IPC 1-7

**C11D 3/37; C11D 3/00; C11D 3/12; C11D 11/00**

IPC 8 full level

**C11D 3/00** (2006.01); **C11D 3/10** (2006.01); **C11D 3/12** (2006.01); **C11D 3/37** (2006.01); **C11D 11/00** (2006.01); **C11D 17/06** (2006.01);  
**C11D 1/12** (2006.01); **C11D 1/72** (2006.01)

CPC (source: EP)

**C11D 3/10** (2013.01); **C11D 3/1273** (2013.01); **C11D 3/128** (2013.01); **C11D 3/3761** (2013.01); **C11D 11/00** (2013.01); **C11D 17/06** (2013.01);  
**C11D 17/065** (2013.01); **C11D 1/12** (2013.01); **C11D 1/72** (2013.01)

Cited by

US6841614B1; WO0022076A1

Designated contracting state (EPC)

AT BE CH DE ES FR GB IT LI NL

DOCDB simple family (publication)

**WO 9405764 A1 19940317**; AT E143048 T1 19961015; DE 4229660 A1 19940310; DE 59303899 D1 19961024; EP 0658189 A1 19950621;  
EP 0658189 B1 19960918

DOCDB simple family (application)

**EP 9302310 W 19930826**; AT 93919191 T 19930826; DE 4229660 A 19920904; DE 59303899 T 19930826; EP 93919191 A 19930826