

Title (en)

GRANULATED, POWDER- AND FINES-FREE DETERGENTS AND CLEANERS OF HIGH BULK DENSITY

Title (de)

VON STAUB- UND FEINANTEILEN FREIE GRANULARE WASCH- UND REINIGUNGSMITTEL HOHER SCHÜTTDICHTHE

Title (fr)

GRANULES DETERGENTS ET NETTOYANTS DE MASSE VOLUMIQUE APPARENTE ELEVEE, EXEMPTS DE POUDRE ET DE FRACTIONS FINES

Publication

**EP 0836641 B1 19990825 (DE)**

Application

**EP 96923951 A 19960627**

Priority

- DE 19524287 A 19950706
- DE 19547457 A 19951219
- EP 9602806 W 19960627

Abstract (en)

[origin: WO9702339A1] The invention pertains to new multicomponent pourable detergents and cleaners of high density and good solubility in cold water. The new detergents and cleaners are designed as abrasion-resistant, powder- and fines-free material having the following grain structure: a bondingly compressed core of one or more valuable substances and/or auxiliary materials which are soluble or in finely dispersed form insoluble in an aqueous wash liquor is coated with a mixture of the same and/or other valuable substances and/or auxiliary materials of smaller individual particle size relative to the diameter of the core material. These particles of coating substance are bound to one another and to the outer surface of the core material using a binding agent which is soluble in cold water and solid at room temperature. In a further embodiment the invention pertains to the method for preparing the new product form of such detergents and cleaners.

IPC 1-7

**C11D 17/06**; **C11D 17/00**

IPC 8 full level

**C11D 17/00** (2006.01); **C11D 17/06** (2006.01)

CPC (source: EP)

**C11D 17/0039** (2013.01); **C11D 17/065** (2013.01)

Designated contracting state (EPC)

AT BE CH DE ES FR GB GR IT LI NL

DOCDB simple family (publication)

**WO 9702339 A1 19970123**; AT E183773 T1 19990915; DE 59602893 D1 19990930; EP 0836641 A1 19980422; EP 0836641 B1 19990825; ES 2137011 T3 19991201; GR 3031562 T3 20000131

DOCDB simple family (application)

**EP 9602806 W 19960627**; AT 96923951 T 19960627; DE 59602893 T 19960627; EP 96923951 A 19960627; ES 96923951 T 19960627; GR 990402656 T 19991018