

Title (en)
BUILDER FOR WASHING AGENTS

Publication
EP 0279040 B1 19910102 (DE)

Application
EP 87117462 A 19871126

Priority
DE 3702764 A 19870130

Abstract (en)
[origin: EP0279040A1] A granulated builder for detergents, consisting of: 50 to 80% by weight of a water-insoluble silicate capable of binding calcium, in the form of a finely divided, synthetically prepared, water-insoluble, crystalline compound containing bound water, of the formula $(Cat^{2/n}O)_x.Me_2O_3.(SiO_2)_y$ (I) in which Cat denotes a cation, which can be replaced by calcium, of the valency n, x denotes a number from 0.7 to 1.5, Me denotes boron or aluminium and y denotes a number from 0.8 to 6, 5 to 25% by weight of bentonite, 0 to 5% by weight of sodium sulphate, 0 to 5% by weight of non-ionic surfactant, 0 to 1% by weight of alkali, 0.5 to 5% by weight of carboxymethylcellulose and/or methylcellulose and the remainder water, can be prepared by spray drying of an aqueous suspension in which all the components are dispersed or dissolved. <IMAGE>

IPC 1-7
C11D 3/12

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

CPC (source: EP)
C11D 3/126 (2013.01); **C11D 3/128** (2013.01); **C11D 3/225** (2013.01)

Cited by
EP0405122A3; EP0419970A3; EP0452016A3; GB2242909A; GB2242909B; AU642230B2; US6833347B1; WO02062933A1; WO9829528A3; WO9114762A1

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

DOCDB simple family (publication)
EP 0279040 A1 19880824; **EP 0279040 B1 19910102**; AT E59676 T1 19910115; DE 3702764 A1 19880811; DE 3766951 D1 19910207; DK 170032 B1 19950501; DK 29788 A 19880731; DK 29788 D0 19880122; ES 2020255 B3 19910801; JP 2541606 B2 19961009; JP S63193994 A 19880811

DOCDB simple family (application)
EP 87117462 A 19871126; AT 87117462 T 19871126; DE 3702764 A 19870130; DE 3766951 T 19871126; DK 29788 A 19880122; ES 87117462 T 19871126; JP 1748788 A 19880129