

Title (en)

Granular builder for detergent compositions

Title (de)

Granularer Waschmittelbuilder

Title (fr)

Adjuvant sous forme de granulé pour les compositions détergentes

Publication

EP 0753568 B1 20020925 (DE)

Application

EP 96109246 A 19960610

Priority

DE 19525197 A 19950711

Abstract (en)

[origin: EP0753568A2] Granular washing agent builder (I) in the form of a cogranulate comprising a mixt. of NaHCO₃ and crystalline sheet silicates of formula NaMSi_xO₂x+1*yH₂O, where M = Na or H, x = 1.9-4 and y = 0-20. The novelty is that (I) a) contains 5-50 wt.% crystalline sheet silicate and 50-95 wt.% NaHCO₃; b) has a pH ≤ 10 in 1% soln. in distilled. water; c) has a Ca binding power ≥ 150 mg Ca/g (30 degrees dH) and a Mg binding power ≥ 4 mg Mg/g (3 degrees dH) and d) a bulk density ≥ 850 g/l. Also claimed is the prepn. of (I) by mixing together NaHCO₃ and sodium silicate in powder form and feeding the mixt. into a zone where it is compacted under pressure between two rollers rotating in opposite directions to give a solid body (cuttle-bones) and reducing the solid body and then separating the desired grain sizes from the over- and undersized material. Also claimed are the washing and cleaning agents containing (I).

IPC 1-7

C11D 3/12; **C11D 3/10**

IPC 8 full level

C11D 3/06 (2006.01); **C11D 3/08** (2006.01); **C11D 3/10** (2006.01); **C11D 3/12** (2006.01)

CPC (source: EP KR US)

C11D 3/08 (2013.01 - KR); **C11D 3/10** (2013.01 - EP US); **C11D 3/1273** (2013.01 - EP US)

Cited by

WO9950382A1

Designated contracting state (EPC)

BE DE FR GB IT

DOCDB simple family (publication)

EP 0753568 A2 19970115; **EP 0753568 A3 19980128**; **EP 0753568 B1 20020925**; CA 2180926 A1 19970112; CN 1146484 A 19970402; DE 19525197 A1 19970116; DE 59609711 D1 20021031; JP H0931491 A 19970204; KR 970006469 A 19970221; TW 352393 B 19990211; US 5874397 A 19990223

DOCDB simple family (application)

EP 96109246 A 19960610; CA 2180926 A 19960710; CN 96110632 A 19960710; DE 19525197 A 19950711; DE 59609711 T 19960610; JP 18085496 A 19960710; KR 19960027862 A 19960711; TW 85107027 A 19960611; US 67599196 A 19960709