

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 A3 19980128 (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 cocranulate comprising a mixt. of NaHCO<sub>3</sub> and crystalline sheet silicates of formula NaMSi<sub>x</sub>O<sub>2x+1</sub>yH<sub>2</sub>O, 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.% NaHCO<sub>3</sub>; 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 NaHCO<sub>3</sub> 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)

Citation (search report)

- [DX] WO 9218594 A1 19921029 - PROCTER & GAMBLE [US]
- [X] EP 0614965 A2 19940914 - HOECHST AG [DE]
- [A] EP 0578986 A1 19940119 - HOECHST AG [DE]
- [A] EP 0416366 A2 19910313 - HOECHST AG [DE]
- [A] DE 4329394 A1 19950302 - HENKEL KGAA [DE]
- [A] DE 4329392 A1 19950302 - HENKEL KGAA [DE]

Cited by

WO9950382A1

Designated contracting state (EPC)

BE DE ES FR GB IT NL SE

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