

Title (en)

Granular adsorption material with improved flushing property.

Title (de)

Körniges Adsorptionsmittel mit verbessertem Einspülverhalten.

Title (fr)

Composition adsorbente granulaire avec une capacité de dégagement améliorée.

Publication

**EP 0344629 B1 19931208 (DE)**

Application

**EP 89109494 A 19890526**

Priority

DE 3818829 A 19880603

Abstract (en)

[origin: WO8912087A1] A granular mixture comprising (a) 45-75 wt. % of zeolite, (b) 1-6 wt % of a water-soluble soap composed essentially of saturated C12-18 fatty acids, (c) 1-12 wt. % of homo- or copolymers of acrylic acid, methacrylic acid or maleic acid or their water-soluble salts, calculated as the sodium salt, (d) 0-25 wt. % of sodium sulphate, (e) 0-5 wt. % of tensides of the nonionic polyglycol ether derivative type, (f) 10-22 wt. % of water, produced by spray drying has an average particle size of 0.2 to 1.2 mm and a bulk density of 350 to 650 g/l. The product can be used as a washing agent additive, is characterized by a high capacity for adsorbing liquid to pastelike washing agent constituents, in particular nonionic detergents, and improved ease of rinsing into domestic washing machines.

IPC 1-7

**C11D 3/12**; **C11D 3/37**; **C11D 17/00**

IPC 8 full level

**B01J 20/22** (2006.01); **C11D 3/12** (2006.01); **C11D 3/20** (2006.01); **C11D 3/37** (2006.01); **C11D 10/04** (2006.01); **C11D 11/02** (2006.01); **C11D 17/00** (2006.01); **C11D 17/06** (2006.01)

CPC (source: EP KR US)

**C11D 3/12** (2013.01 - KR); **C11D 3/128** (2013.01 - EP US); **C11D 3/2079** (2013.01 - EP US); **C11D 3/3761** (2013.01 - EP US); **C11D 17/065** (2013.01 - EP US)

Cited by

EP0425277A3; EP0425804A3; EP0520582A1; GB2239513A; GB2239513B; US5723428A; EP0419970A3; EP2009086A1; WO9418294A1; WO9207060A1

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DOCDB simple family (publication)

**EP 0344629 A1 19891206**; **EP 0344629 B1 19931208**; AT E98294 T1 19931215; DE 3818829 A1 19891214; DE 58906340 D1 19940120; DK 272790 A 19901115; DK 272790 D0 19901115; EP 0424403 A1 19910502; ES 2047059 T3 19940216; JP 2633045 B2 19970723; JP H03504734 A 19911017; KR 900701993 A 19901205; KR 960012274 B1 19960918; US 5139693 A 19920818; WO 8912087 A1 19891214

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**EP 89109494 A 19890526**; AT 89109494 T 19890526; DE 3818829 A 19880603; DE 58906340 T 19890526; DK 272790 A 19901115; EP 8900587 W 19890526; EP 89906072 A 19890526; ES 89109494 T 19890526; JP 50550689 A 19890526; KR 900700224 A 19900203; US 62396790 A 19901203