

Title (en)
Stabilisation of capsule systems in detergent and cleaning compositions

Title (de)
Stabilisierung von Kapselsystemen in Wasch- und Reinigungsmitteln

Title (fr)
Stabilisation de systèmes de capsule dans des produits de nettoyage et de lavage

Publication
EP 2711414 A1 20140326 (DE)

Application
EP 12184985 A 20120919

Priority
EP 12184985 A 20120919

Abstract (en)
Stabilizing systems for capsules in laundry detergents and other cleaning products, comprise at least one rheology modifier consisting of hardened castor oil, hardened castor waxes, polyacrylates and/or layered silicates. The capsules have an average particle size distribution of 0.1 nm to 1000 µm. Independent claims are included for: (1) use of 2,3-bis(12-hydroxyoctadecanoloxy) propyl 12-hydroxyoctadecanoate or a mixture of layered silicate with polyacrylate comprising hydrophobically modified alkali-soluble emulsion-polymer, alkali-swelling emulsion polymer, latex polyacrylate, anionic polyacrylate emulsion or polyacrylate dispersion, for the stabilization of fragrances material in laundry detergents and other cleaning products; and (2) preparing the laundry detergents and other cleaning products, comprising introducing a mixture made of different fragrances, which are encapsulated and comprise the rheology modifier consisting of hardened castor oil, hydrogenated castor waxes, polyacrylates and/or layered silicates into the laundry detergents and other cleaning products.

Abstract (de)
Die Erfindung betrifft Stabilisierungssysteme für Kapseln in Wasch- und Reinigungsmitteln, wobei die Kapseln Wirk- bzw. Inhaltstoffe enthalten und eine durchschnittliche Teilchengrößenverteilung von 0.1 nm bis 1.000 µm aufweisen, und das Stabilisierungssystem mindestens einen Rheologie-Modifizierer umfasst, der ausgewählt ist aus der Gruppe bestehend aus gehärteten Castorölen, gehärteten Castorwachsen, Polyacrylaten, Schichtsilikaten oder Mischungen daraus.

IPC 8 full level
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Citation (applicant)
• WO 2011031940 A1 20110317 - PROCTER & GAMBLE [US], et al
• GB 1471406 A 19770427 - UNILEVER LTD
• WO 0036078 A1 20000622 - UNILEVER NV [NL], et al
• DE 4321022 A1 19950105 - HENKEL KGAA [DE]
• DE 19503061 A1 19960808 - HENKEL KGAA [DE]
• DE 19513391 A1 19961010 - HENKEL KGAA [DE]
• EP 0032202 A1 19810722 - BAYER AG [DE]
• EP 0427349 A2 19910515 - TNO [NL]
• EP 0472042 A1 19920226 - FERRUZZI RICERCA & TEC [IT]
• EP 0542496 A1 19930519 - PROCTER & GAMBLE [US]
• WO 9218542 A1 19921029 - NOVAMONT SPA [IT]
• WO 9308251 A1 19930429 - HENKEL KGAA [DE]
• WO 9428030 A1 19941208 - HENKEL KGAA [DE], et al
• WO 9507303 A1 19950316 - TNO [NL], et al
• WO 9512619 A1 19950511 - INST VOOR AGROTECH ONDERZOEK [NL], et al
• WO 9520608 A1 19950803 - HENKEL KGAA [DE], et al
• US 4524009 A 19850618 - VALENTY VIVIAN B [US]
• US 4639325 A 19870127 - VALENTY VIVIAN B [US], et al
• EP 0150930 A2 19850807 - STALEY MFG CO A E [US]
• JP H05339896 A 19931221 - ARAKAWA CHEM IND
• WO 9520029 A1 19950727 - HENKEL KGAA [DE], et al
• US 387052 A 18880731
• US 3516941 A 19700623 - MATSON GALE W
• US 3415758 A 19681210 - POWELL THOMAS C, et al
• EP 0026914 A1 19810415 - BASF AG [DE]
• STEFFEN ARCTANDER, AROMA CHEMICALS, vol. 1, 1960
• AROMA CHEMICALS, vol. 2, 2000

Citation (search report)
• [XYI] EP 1502944 A1 20050202 - PROCTER & GAMBLE [US]
• [XY] US 2010150975 A1 20100617 - DIHORA JITEN ODHAVJI [US], et al
• [XYI] WO 2011120772 A1 20111006 - UNILEVER PLC [GB], et al

Cited by
EP3184619A1; WO2017112384A1

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