

Title (en)

Wax encapsulated bleach particles and method for making same.

Title (de)

Mit Wachs verkapselte Bleichpartikel und Verfahren zur Herstellung.

Title (fr)

Particules de blanchiment encapsulées avec de la cire et procédé de préparation.

Publication

**EP 0436971 A2 19910717 (EN)**

Application

**EP 90202882 A 19901031**

Priority

US 43699689 A 19891115

Abstract (en)

Bleach particles encapsulated in a single coat of paraffin wax, the wax having melting point of 40 to 50 DEG C and needle penetration value of 10 to 60 mm at 25 DEG C. The coat comprises 35 to 55% by weight of the particle and may be from 100 to 1,000 microns thick. The coat prolongs the time in which chlorine bleach particles encapsulated therewith may remain active in aqueous environments. The encapsulated particle is made by spraying molten wax on to the particles in a fluidized bed. Liquid or powder cleaning compositions, particularly automatic dishwashing liquid detergents, may incorporate 0.1-15% of the single coat wax-encapsulated bleach particles.

IPC 1-7

**C11D 3/39**; **C11D 17/00**

IPC 8 full level

**C11D 3/39** (2006.01); **C11D 3/395** (2006.01); **C11D 7/54** (2006.01); **C11D 11/00** (2006.01); **C11D 17/00** (2006.01); **C11D 17/08** (2006.01)

CPC (source: EP)

**C11D 3/39** (2013.01); **C11D 3/395** (2013.01); **C11D 17/0039** (2013.01)

Cited by

EP0596550A3; EP1208908A3; EP1344815A1; KR100892551B1; US5650017A; WO0065020A1; WO2007134977A1; US7897557B2; WO9900476A1; WO9533817A1; US6463939B1; US9474720B2; US9642867B2; US9901586B2; US10159686B2

Designated contracting state (EPC)

CH DE ES FR GB IT LI NL SE

DOCDB simple family (publication)

**EP 0436971 A2 19910717**; **EP 0436971 A3 19910731**; **EP 0436971 B1 19971217**; AU 633645 B2 19930204; AU 6597090 A 19910523; BR 9005786 A 19910924; CA 2029658 A1 19910516; DE 69031824 D1 19980129; DE 69031824 T2 19980430; ES 2110407 T3 19980216; JP H03185099 A 19910813; ZA 909178 B 19920729

DOCDB simple family (application)

**EP 90202882 A 19901031**; AU 6597090 A 19901112; BR 9005786 A 19901114; CA 2029658 A 19901109; DE 69031824 T 19901031; ES 90202882 T 19901031; JP 31013690 A 19901115; ZA 909178 A 19901115