

Title (en)

DETERGENT PARTICLES COMPRISING METAL-CONTAINING BLEACH CATALYSTS

Title (de)

DETERGENSTEILCHEN MIT METALLHALTIGEN BLEICHKATALYSATOREN

Title (fr)

PARTICULES POUR DETERGENTS CONTENANT DES CATALYSEURS DE BLANCHIMENT METALLIFERES

Publication

**EP 0891410 A4 19991201 (EN)**

Application

**EP 97904083 A 19970131**

Priority

- GB 9602578 A 19960208
- US 9701462 W 19970131

Abstract (en)

[origin: GB2309976A] Particulates suitable for incorporation into granular detergent compositions comprise a) 1% to 50% of the metal-containing bleach catalyst b) 40% to 99% of the encapsulating material and c) 0.5% to 20% water. Detergents containing the particulates are typically automatic dishwashing or laundry compositions or hard surface cleaners. Catalysts are preferably Mn or Co containing and particulates are 10 - 450 micron size. Suitable encapsulating materials are gelatines, dextrin or gum Arabic.

IPC 1-7

**C11D 3/22**; **C11D 3/39**; **C11D 3/395**

IPC 8 full level

**C11D 3/04** (2006.01); **C11D 3/22** (2006.01); **C11D 3/384** (2006.01); **C11D 3/39** (2006.01); **C11D 3/395** (2006.01); **C11D 3/60** (2006.01); **C11D 17/00** (2006.01); **C11D 17/06** (2006.01)

CPC (source: EP)

**C11D 3/0084** (2013.01); **C11D 3/3932** (2013.01); **C11D 3/3935** (2013.01); **C11D 17/0039** (2013.01)

Citation (search report)

- [X] WO 9421777 A1 19940929 - UNILEVER PLC [GB], et al
- [X] WO 9528469 A1 19951026 - PROCTER & GAMBLE [US], et al
- [X] DE 1961076 A1 19710609 - HENKEL & CIE GMBH
- [PX] WO 9617921 A1 19960613 - PROCTER & GAMBLE [US]
- See references of WO 9729174A1

Designated contracting state (EPC)

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DOCDB simple family (publication)

**GB 2309976 A 19970813**; **GB 9602578 D0 19960410**; AR 005720 A1 19990714; BR 9707402 A 19990406; CA 2245560 A1 19970814; CA 2245560 C 20010911; CN 1214726 A 19990421; EP 0891410 A1 19990120; EP 0891410 A4 19991201; JP 3171855 B2 20010604; JP H11504067 A 19990406; WO 9729174 A1 19970814

DOCDB simple family (application)

**GB 9602578 A 19960208**; AR P970100460 A 19970205; BR 9707402 A 19970131; CA 2245560 A 19970131; CN 97193437 A 19970131; EP 97904083 A 19970131; JP 52856297 A 19970131; US 9701462 W 19970131