

Title (en)
Bleaching agent

Title (de)
Bleichmittel

Title (fr)
Agent de blanchement

Publication
EP 0791647 A2 19970827 (DE)

Application
EP 97102139 A 19970211

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DE 19606343 A 19960221

Abstract (en)
A bleaching system containing (A) a persalt coated with a 3-18C fatty acid, a wax or a silicone oil, and an enzyme and optionally (B) a bleach activator or a bleach catalyst is new. The preferred amount of coated persalt is 1-99 weight %. The amount of coating is 5-30 weight %. The amount of enzyme is 0.05-10 weight %. The amount of activator is 0.1-40 weight %. The amount of catalyst is 0.001-10 weight %. The coating consists of a montan wax, a paraffin wax, an ester wax or a polyolefin wax.

Abstract (de)
Bleichmittel enthaltend ein gecoatetes Persalz und ein Enzym. Das Persalz ist mit einer C8-C18-Fettsäure, einem Wachs oder einem Silikonöl gecoatet. Gegebenenfalls enthält das Bleichmittel auch noch einen Bleichaktivator oder Bleichkatalysator.

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C11D 3/39; **C11D 3/37**; **C11D 17/00**

IPC 8 full level
C11D 3/386 (2006.01); **C11D 3/39** (2006.01); **C11D 3/395** (2006.01); **C11D 7/38** (2006.01); **C11D 7/42** (2006.01); **C11D 7/54** (2006.01); **C11D 17/00** (2006.01)

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Citation (applicant)

- DE 2417572 A1 19741114 - INTEROX
- DE 2622610 A1 19761209 - INTEROX
- DE 2800916 A1 19780720 - INTEROX
- DE 3321082 A1 19831215 - KAO CORP [JP]
- EP 0487256 A1 19920527 - KAO CORP [JP]
- DE 4109953 A1 19921001 - HENKEL KGAA [DE]
- GB 836988 A 19600609 - UNILEVER LTD
- GB 864798 A 19610406 - UNILEVER LTD
- GB 907356 A 19621003 - KONINK IND MIJ VOORHEEN NOURY
- GB 1003310 A 19650902 - UNILEVER LTD
- GB 1519351 A 19780726 - UNILEVER LTD
- EP 0284292 A2 19880928 - KAO CORP [JP]
- EP 0331229 A2 19890906 - UNILEVER NV [NL], et al
- EP 0303520 A2 19890215 - KAO CORP [JP]
- EP 0185522 A2 19860625 - CLOROX CO [US]
- EP 0174132 A2 19860312 - PROCTER & GAMBLE [US], et al
- EP 0120591 A1 19841003 - PROCTER & GAMBLE [US]
- US 1246339 A 19171113 - SMIT ISAAC J [US]
- US 3332882 A 19670725 - BLUMBERGS JOHN H, et al
- US 4128494 A 19781205 - SCHIRMANN JEAN-PIERRE, et al
- US 4412934 A 19831101 - CHUNG STANLEY Y [US], et al
- US 4675393 A 19870623 - COXON ANDREW C [GB]
- US 4751015 A 19880614 - HUMPHREYS ROBERT W [US], et al
- US 4397757 A 19830809 - BRIGHT SAMUEL C [GB], et al
- US 3156654 A 19641110 - KONECNY JAN O, et al
- US 3532634 A 19701006 - WOODS WILLIAM G
- US 4430243 A 19840207 - BRAGG CHARLES D [GB]
- US 4478733 A 19841023 - OAKES JOHN [GB]
- EP 0237111 A2 19870916 - UNILEVER NV [NL], et al
- EP 0306089 A2 19890308 - UNILEVER NV [NL], et al
- EP 0392592 A2 19901017 - UNILEVER NV [NL], et al
- EP 0408131 A2 19910116 - UNILEVER NV [NL], et al
- EP 0439387 A2 19910731 - AIR LIQUIDE [FR]
- EP 0443651 A2 19910828 - UNILEVER NV [NL], et al
- EP 0458397 A2 19911127 - UNILEVER NV [NL], et al
- EP 0458398 A2 19911127 - UNILEVER NV [NL], et al
- EP 0544519 A2 19930602 - UNILEVER PLC [GB], et al
- US 5437686 A 19950801 - HEFFNER ROBERT J [US], et al

Cited by
US7064099B1; EP1203576A1; US2010207062A1; US8431519B2; CN100422301C; AU2004286081B2; WO2005042685A1

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