

Title (en)

Composition and method of fabric encrustation prevention.

Title (de)

Mittel zur Verhinderung der Gewebeinkrustation und Verfahren zur Herstellung.

Title (fr)

Composition pour prévention de l'incrustation sur le tissu et procédé.

Publication

EP 0463802 A1 19920102 (EN)

Application

EP 91305580 A 19910620

Priority

US 54249390 A 19900622

Abstract (en)

Cleaning composition and method comprising in a first embodiment an alkali metal carbonate builder and a fabric encrustation prevention system comprising a sub-stoichiometric level of an organic dicarboxylic acid, water-soluble salts or anhydrides thereof which acts to inhibit and prevent the deposition of insoluble precipitates containing water hardness ions on fabrics; in a second embodiment the cleaning composition includes a detergent surfactant for laundry applications, in either embodiment the following adjuncts may be included: co-builders, alkali metal silicates, bleaching species, enzymes, fragrances, dyes, brighteners and others.

IPC 1-7

C11D 3/10; C11D 3/20; C11D 3/28

IPC 8 full level

C11D 7/60 (2006.01); **C11D 3/10** (2006.01); **C11D 3/20** (2006.01); **C11D 3/28** (2006.01); **D06L 3/02** (2006.01)

CPC (source: EP)

C11D 3/10 (2013.01); **C11D 3/2082** (2013.01); **C11D 3/28** (2013.01)

Citation (search report)

- [X] DE 2240309 A1 19730301 - UNILEVER NV
- [X] DE 2730951 A1 19780112 - LION FAT OIL CO LTD
- [X] EP 0094723 A1 19831123 - BLAUWE LIER BV DE [NL]
- [X] FR 2396076 A1 19790126 - AKZO NV [NL]
- [A] FR 2121568 A1 19720825 - UNILEVER NV [NL]

Cited by

US8669224B2

Designated contracting state (EPC)

AT BE CH DE DK ES FR GR IT LI NL SE

DOCDB simple family (publication)

EP 0463802 A1 19920102; EP 0463802 B1 19980909; AT E170910 T1 19980915; CA 2044947 A1 19911223; DE 69130137 D1 19981015; DE 69130137 T2 19990128; ES 2121770 T3 19981216; JP H05132697 A 19930528

DOCDB simple family (application)

EP 91305580 A 19910620; AT 91305580 T 19910620; CA 2044947 A 19910619; DE 69130137 T 19910620; ES 91305580 T 19910620; JP 17579391 A 19910621