

Title (en)
Method of preventing fabric encrustation

Title (de)
Verfahren zur Verhinderung der Gewebeinkrustation

Title (fr)
Procédé pour prévention de l'incrustation sur le tissu

Publication
EP 0463802 B1 19980909 (EN)

Application
EP 91305580 A 19910620

Priority
US 54249390 A 19900622

Abstract (en)
[origin: EP0463802A1] 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 deterative 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 3/20; **C11D 3/10**; **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)

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