

Title (en)
GRANULAR DETERGENT

Title (de)
GRANULARES WASCHMITTEL

Title (fr)
DETERGENT GRANULE

Publication
EP 0986629 A1 20000322 (DE)

Application
EP 98930735 A 19980527

Priority
• DE 19723616 A 19970605
• EP 9803109 W 19980527

Abstract (en)
[origin: WO9855574A1] The invention relates to the use of organic acids, especially citric acid, added separately or at a later stage, to help remove bleachable stains on textiles if the detergent used is essentially free of bleaching agents. To this end, granular detergents are used which have an apparent density of between 650 g/l and 1100 g/l, contain anionic and/or nonionic tensides as well as builders, and between 1 and 15 weight percent of an organic acid which is added separately or at later stage, said detergents being essentially free of bleaching agents. The advantages of such detergents are especially evident when said detergents are used for machine washing at temperatures of up to 60 DEG C and in particular at temperatures as low as 30 DEG C to 40 DEG C.

IPC 1-7
C11D 3/20; **C11D 11/00**; **C11D 17/06**

IPC 8 full level
C11D 1/83 (2006.01); **C11D 3/08** (2006.01); **C11D 3/10** (2006.01); **C11D 3/20** (2006.01); **C11D 11/00** (2006.01); **C11D 17/06** (2006.01)

CPC (source: EP)
C11D 1/83 (2013.01); **C11D 3/2082** (2013.01); **C11D 3/2086** (2013.01); **C11D 11/0082** (2013.01); **C11D 17/065** (2013.01)

Citation (search report)
See references of WO 9855574A1

Designated contracting state (EPC)
AT BE DE ES FR GB IT NL

DOCDB simple family (publication)
WO 9855574 A1 19981210; AT E224942 T1 20021015; DE 19723616 A1 19981210; DE 59805713 D1 20021031; EP 0986629 A1 20000322; EP 0986629 B1 20020925; EP 0986629 B2 20070516; ES 2183384 T3 20030316; ES 2183384 T5 20071116; JP 2002502457 A 20020122

DOCDB simple family (application)
EP 9803109 W 19980527; AT 98930735 T 19980527; DE 19723616 A 19970605; DE 59805713 T 19980527; EP 98930735 A 19980527; ES 98930735 T 19980527; JP 50142599 A 19980527