

Title (en)
LIQUID ACID DETERGENT

Title (de)
FLÜSSIGES SAURES WASCHMITTEL

Title (fr)
DETERGENT LIQUIDE ACIDE

Publication
EP 1567626 A1 20050831 (DE)

Application
EP 03780040 A 20031125

Priority
• DE 10257389 A 20021206
• EP 0313196 W 20031125

Abstract (en)
[origin: WO2004053038A1] The aim of the invention is to provide a detergent for delicate fabrics, which has an anti-bacterial action and is effective even at low wash temperatures. This is achieved by a liquid aqueous acid detergent containing a non-ionic surfactant, esterquat and phthaloylaminoperoxycaproic acid.

IPC 1-7
C11D 1/835; **C11D 3/39**; **C11D 3/48**

IPC 8 full level
C11D 1/835 (2006.01); **C11D 3/39** (2006.01); **C11D 3/48** (2006.01); **C11D 1/62** (2006.01)

CPC (source: EP US)
C11D 1/835 (2013.01 - EP US); **C11D 3/3947** (2013.01 - EP US); **C11D 3/48** (2013.01 - EP US); **C11D 1/62** (2013.01 - EP US);
C11D 1/72 (2013.01 - EP US)

Citation (search report)
See references of WO 2004053038A1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

DOCDB simple family (publication)
WO 2004053038 A1 20040624; AT E350442 T1 20070115; AU 2003288157 A1 20040630; DE 10257389 A1 20040624;
DE 50306225 D1 20070215; EP 1567626 A1 20050831; EP 1567626 B1 20070103; ES 2279199 T3 20070816; JP 2006509080 A 20060316;
US 2005227894 A1 20051013; US 7179778 B2 20070220

DOCDB simple family (application)
EP 0313196 W 20031125; AT 03780040 T 20031125; AU 2003288157 A 20031125; DE 10257389 A 20021206; DE 50306225 T 20031125;
EP 03780040 A 20031125; ES 03780040 T 20031125; JP 2004557927 A 20031125; US 14733705 A 20050606