

Title (en)

Aqueous liquid detergent dispersions

Title (de)

Wässrige Flüssigwaschmittel-Dispersionen

Title (fr)

Dispersions aqueuses liquides détergentes

Publication

EP 1445301 B1 20131127 (DE)

Application

EP 04001425 A 20040123

Priority

DE 10303130 A 20030128

Abstract (en)

[origin: EP1445301A1] Aqueous liquid detergent dispersion comprises 5-35 wt.% anionic surfactant, 10-50 wt.% builder, 0-10 wt.% electrolytes and 0.1-10 wt.% quaternary alkyl hydroxyethyl ammonium salt (I). The weight ratio of anionic surfactant to (I) is 2-50:1.

IPC 8 full level

C11D 1/62 (2006.01); **C11D 1/65** (2006.01); **C11D 1/00** (2006.01); **C11D 1/14** (2006.01); **C11D 1/86** (2006.01); **C11D 17/08** (2006.01); **C11D 1/72** (2006.01)

CPC (source: EP US)

C11D 1/65 (2013.01 - EP US); **C11D 1/143** (2013.01 - EP US); **C11D 1/62** (2013.01 - EP US)

Cited by

EP3458564A4; DE102014015387B3; US11104864B2

Designated contracting state (EPC)

BE CH DE ES FR GB IT LI

DOCDB simple family (publication)

EP 1445301 A1 20040811; **EP 1445301 B1 20131127**; DE 10303130 A1 20040729; ES 2442219 T3 20140210; JP 2004231959 A 20040819; JP 4592294 B2 20101201; US 2004204336 A1 20041014; US 6949501 B2 20050927

DOCDB simple family (application)

EP 04001425 A 20040123; DE 10303130 A 20030128; ES 04001425 T 20040123; JP 2004015712 A 20040123; US 76531704 A 20040126