

Title (en)
LIQUID DETERGENT COMPOSITION COMPRISING AN EXTERNAL STRUCTURING SYSTEM COMPRISING A BACTERIAL CELLULOSE NETWORK

Title (de)
FLÜSSIGWASCHMITTELZUSAMMENSETZUNG MIT EINEM EXTERNEN STRUKTURIERUNGSSYSTEM MIT EINEM BAKTERIELLEN CELLULOSENETZ

Title (fr)
COMPOSITION DÉTERGENTE LIQUIDE COMPRENANT UNE STRUCTURE EXTERNE CONSTITUÉE D'UN RÉSEAU DE CELLULOSE BACTÉRIENNE

Publication
EP 2242832 B1 20180328 (EN)

Application
EP 09709696 A 20090202

Priority
• IB 2009050424 W 20090202
• US 6606408 P 20080215

Abstract (en)
[origin: WO2009101545A1] A structured liquid detergent composition in the form of a liquid matrix made up of an external structuring system of a bacterial cellulose network; water; and surfactant system including an anionic surfactant; a nonionic surfactant; a cationic surfactant; an ampholytic surfactant; a zwitterionic surfactant; or mixtures thereof, wherein said liquid matrix has a yield stress of from about 0.003 Pa to about 5.0 Pa at about 25 °C and provides suitable particle suspension capabilities and shear thinning characteristics.

IPC 8 full level
C11D 17/00 (2006.01); **C11D 3/22** (2006.01)

CPC (source: EP)
C11D 3/222 (2013.01); **C11D 17/0026** (2013.01)

Citation (examination)
• WO 03062361 A1 20030731 - HENKEL KGAA [DE], et al
• WO 2008076753 A1 20080626 - CP KELCO US INC [US], et al
• US 6241812 B1 20010605 - SMITH BARBARA A [GB], et al

Citation (opposition)
Opponent : Henkel AG & Co. KGaA
• WO 2008033585 A1 20080320 - COLGATE PALMOLIVE CO [US], et al
• DE 2402225 A1 19750717 - UNILEVER NV
• WO 0036060 A2 20000622 - UNILEVER NV [NL], et al
• WO 2007123566 A1 20071101 - COLGATE PALMOLIVE CO [US], et al
• WO 2008076753 A1 20080626 - CP KELCO US INC [US], et al
• "KELCOGEL gellan gum book 5th edition", 2001, article CP KELCO: "CPKelco World Leader in Hydrocolloids", pages: 1 - 8, XP055551674

Cited by
EP3786268A1; US11624042B2

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DOCDB simple family (publication)
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IB 2009050424 W 20090202; AR P090100524 A 20090213; CA 2715652 A 20090202; EP 09709696 A 20090202; ES 09709696 T 20090202; JP 2010546420 A 20090202; MX 2010008933 A 20090202