

Title (en)
DETERGENT COMPOSITIONS

Title (de)
WASCHMITTELZUSAMMENSETZUNGEN

Title (fr)
COMPOSITIONS DE LAVAGE

Publication
EP 1867708 B1 20170503 (EN)

Application
EP 06124858 A 20061127

Priority
• US 81915506 P 20060707
• EP 06116784 A 20060707
• EP 06115574 A 20060616
• EP 06116782 A 20060707
• EP 06116780 A 20060707
• EP 06124858 A 20061127

Abstract (en)
[origin: EP1867708A1] This invention relates to laundry detergent compositions comprising bacterial alkaline enzymes exhibiting endo-bcta-1,4-glucanase activity (E.C. 3.2.1.4) and modified cellulose derivatives.

IPC 8 full level
C11D 3/22 (2006.01); **C11D 3/386** (2006.01)

CPC (source: EP)
C11D 3/222 (2013.01); **C11D 3/386** (2013.01); **C11D 3/38645** (2013.01)

Citation (opposition)

Opponent : Dalli-Werke GmbH & Co. KG

- US 81444206 P 20060616
- WO 2007144856 A2 20071221 - PROCTER & GAMBLE [US], et al
- EP 1867707 A1 20071219 - PROCTER & GAMBLE [US]
- WO 9720026 A1 19970605 - UNILEVER NV [NL], et al
- US 2005112749 A1 20050526 - OUTTRUP HELLE [DK], et al
- EP 1350843 A2 20031008 - KAO CORP [JP]
- EP 0271004 A2 19880615 - KAO CORP [JP]
- EP 0265832 A2 19880504 - KAO CORP [JP]
- JP 2005287441 A 20051020 - KAO CORP
- WO 2004053039 A2 20040624 - NOVOZYMES AS [DK], et al
- WO 2005059079 A1 20050630 - UNILEVER PLC [GB], et al
- EP 0934997 A1 19990811 - HENKEL KGAA [DE]
- WO 03062363 A1 20030731 - HENKEL KGAA [DE], et al
- EP 0739982 A1 19961030 - GENENCOR INT [US]
- A USZUG INTERNETSEITE SIGMA-ALDRICH ZU PRODUKT KATALONUMMER C4888
- CELLULOSE UND CELLULOSEDERIVATE, pages 308, ISBN: 978-3-95468-019-1

Opponent : Henkel AG & Co. KGaA

- WO 02099091 A2 20021212 - NOVOZYMES AS [DK], et al
- DE 19804656 A1 19990812 - HENKEL KGAA [DE]
- J.H. VAN EE ET AL: "Enzymes in detergency", 1997, MARCEL DEKKER INC., article KARL-HEINZ MAURER: "Development of new cellulases", pages: 175 - 202, XP055324885
- AMFEP: "Cellulzyme 0.7 T", ENZYMSICHERHEITSDATENBLATT, 8 March 1995 (1995-03-08), XP055460500

Cited by

WO2011023982A1; EP3230429A1; WO2018185150A1; WO2019076800A1; WO2020070011A1; EP3892708A1; WO2024110541A1; WO2018184818A1; WO2020070014A1; EP4206309A1; WO2023126254A1; WO2017186943A1; WO2018007573A1; EP3693449A1; WO2020208056A1; WO2021064068A1; WO2023194204A1; WO2016162558A1; WO2018177938A1; WO2018185181A1; WO2021122120A2; WO2021123307A2; WO2017046232A1; WO2018060216A1; WO2019057902A1; WO2019201783A1; WO2022106404A1; WO2022106400A1; WO2024131880A2; WO2015049370A1; WO2018185267A1; WO2018184816A1; WO2020007863A1; EP3626809A1; WO2021122121A1; WO2022189521A1; WO2018185152A1; WO2018185269A1; DE102017125560A1; WO2019084350A1; WO2019084349A1; WO2019086526A1; US11441140B2; WO2015150457A1; WO2017064253A1; DE102017125559A1; WO2019086521A1; WO2019185726A1; WO2020070209A1; WO2021148364A1; WO2022171872A1; WO2018185285A1; WO202008024A1; WO2020074499A1; WO2020074545A1; EP3722406A1; WO2020207944A1; EP3936593A1; WO2022008387A1; WO2022171780A2; WO2018002261A1; WO2018011276A1; WO2018011277A1; WO2018178061A1; WO2018206300A1; WO2019201785A1; WO2020007875A1; EP3950941A2; WO2018185280A1; WO2018206302A1; WO2019086532A1; WO2020002604A1; WO2020070063A2; WO2020070199A1; WO2021037895A1; WO2021053127A1; WO2021214059A1; WO2016096996A1; WO2016162556A1; WO2019086530A1; WO2019201793A1; WO2020008043A1; EP3647397A1; WO2020088957A1; EP3715442A1; WO2021122117A1; WO2022084303A2; EP4379029A1; WO2018077938A1; WO2018108865A1; WO2018184873A1; WO2020002608A1; WO2021121394A1; WO2021122118A1; WO2021130167A1; EP3967756A1; WO2023165950A1; WO2017060505A1; WO2018177936A1; WO2019081721A1; WO2019081724A1; EP3708660A2; WO2020188095A1; WO2022043321A2; WO2023165507A1; WO2016135351A1; WO2017046260A1; WO2017064269A1; WO2020070249A1; EP4324919A2; WO2014183921A1; WO2018184817A1; DE102017125558A1; WO2019086528A1; WO2019086520A1; EP3569611A1; WO2020201403A1; WO2021009067A1; WO2021204838A1; WO2022074037A2; EP4060036A1; WO2022194668A1; WO2017194487A1; EP3647398A1; WO2020074498A1; WO2020088958A1; WO2020127796A2; WO2020127775A1; WO2022194673A1; WO2022268885A1; EP2302025B1; EP2365055B1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

EP 1867708 A1 20071219; EP 1867708 B1 20170503; AR 061495 A1 20080903; BR PI0713668 A2 20121023; CA 2652774 A1 20071221; JP 2009539399 A 20091119; MX 2008016229 A 20090217; MX 295029 B 20120120; PL 1867708 T3 20171031; WO 2007144855 A1 20071221; WO 2007144855 A8 20090219

DOCDB simple family (application)

EP 06124858 A 20061127; AR P070102655 A 20070615; BR PI0713668 A 20070615; CA 2652774 A 20070615; IB 2007052308 W 20070615; JP 2009514977 A 20070615; MX 2008016229 A 20070615; PL 06124858 T 20061127