

Title (en)

LIQUID DETERGENT COMPOSITION WITH INCREASED CLEANING PERFORMANCE

Title (de)

FLÜSSIGES WASCHMITTEL MIT ERHÖHTER REINIGUNGSLEISTUNG

Title (fr)

COMPOSITION DÉTERGENTE LIQUIDE AYANT UNE PUISSANCE DE NETTOYAGE AUGMENTÉE

Publication

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Application

EP 13709919 A 20130318

Priority

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- EP 2013055524 W 20130318

Abstract (en)

[origin: WO2013139726A1] The invention relates to a liquid detergent or cleaning agent that comprises a) an alkoxylated oxo-alcohol with 7 or 8 alkoxy units, and b) a polymer that allows the removal of dirt. The liquid detergent or cleaning agent demonstrates an increased cleaning performance, particularly where the soiling contains fat, and an improved anti-redeposition effect.

IPC 8 full level

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CPC (source: EP US)

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Citation (examination)

- EP 0576777 A1 19940105 - PROCTER & GAMBLE [US]
- WO 2012104158 A1 20120809 - UNILEVER PLC [GB], et al

Citation (opposition)

- Opponent : : Dalli-Werke GmbH & Co. KG
- US 2011119841 A1 20110526 - BENNETT JULIE [GB], et al
 - GB 1560073 A 19800130 - UNILEVER LTD
 - US 2002042354 A1 20020411 - LANG FRANK-PETER [DE], et al
 - US 2011021406 A1 20110127 - LANT NEIL JOSEPH [GB], et al
 - US 4886615 A 19891212 - DEHAN LOUIS [BE]
 - US 2003228433 A1 20031211 - DUFFIELD PAUL JOHN [GB]
 - EP 1309669 B1 20061004 - HENKEL KGAA [DE]
 - EP 1666579 A1 20060607 - PROCTER & GAMBLE [US]
 - US 2008004198 A1 20080103 - JOINSON LESLIE JOSEPH LUKE [GB]
 - EP 2133410 A1 20091216 - PROCTER & GAMBLE [US]
 - AT 365226 B 19811228 - HENKEL KGAA [DE]
 - DE 2916656 A1 19801106 - HENKEL KGAA
 - DE 4125025 A1 19930204 - HENKEL KGAA [DE]
 - US 5880083 A 19990309 - BEAUJEAN HANS-JOSEF [DE], et al
 - WO 9712952 A1 19970410 - UNILEVER PLC [GB], et al
 - GÜNTER WAGNER, WASCHMITTEL, 2010, pages 116 - 120, XP055574197

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