

Title (en)  
AUTOMATIC DISHWASHER DETERGENT CONTAINING BLEACHING AGENT AND POLYMERS

Title (de)  
MASCHINELLES GESCHIRRSPÜLMITTEL ENTHALTEND BLEICHMITTEL UND POLYMERE

Title (fr)  
LESSIVE LAVE-VAISSELLE CONTENANT DES AGENTS DE BLANCHIMENT ET DES POLYMÈRES

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Application  
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Abstract (en)  
[origin: WO2017013158A1] The invention relates to automatic dishwasher detergents containing at least one bleaching agent, at least one bleach catalyst, at least one homopolymer of  $\alpha,\beta$  ethylenically-unsaturated carboxylic acids and at least one copolymer containing at least one monomer containing sulphonic acid groups, and at least one monomer from the group of the  $\alpha,\beta$  ethylenically-unsaturated carboxylic acids, as well as to the use of same in a machine dishwashing method, and to a corresponding method for machine dishwashing.

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Citation (opposition)  
Opponent : BASF SE  
• DE 102013225591 A1 20150611 - HENKEL AG & CO KGAA [DE]  
• DE 102009029635 A1 20110324 - HENKEL AG & CO KGAA [DE]  
• DE 102007006628 A1 20080807 - HENKEL AG & CO KGAA [DE]  
Opponent : Dalli-Werke GmbH & Co. KG  
• DE 102013226430 A1 20150618 - HENKEL AG & CO KGAA [DE]  
• WO 2015086475 A1 20150618 - HENKEL AG & CO KGAA [DE]  
• WO 2015086474 A1 20150618 - HENKEL AG & CO KGAA [DE]  
• DE 102009029637 A1 20110324 - HENKEL AG & CO KGAA [DE]  
• EP 0851024 A2 19980701 - UNILEVER NV [NL], et al  
• WO 9623861 A1 19960808 - PROCTER & GAMBLE [US]  
• EP 2700703 A1 20140226 - PROCTER & GAMBLE [US]  
• WO 2015124384 A1 20150827 - UNILEVER NV [NL], et al  
• WO 2009060966 A1 20090514 - NIPPON CATALYTIC CHEM IND [JP], et al  
Opponent : Reckitt Benckiser Finish B. V.  
• US 2012167923 A1 20120705 - SENDOR-MUELLER DOROTA [DE], et al  
• US 2003158064 A1 20030821 - KESSLER ARND [DE], et al  
• WO 2010086821 A2 20100805 - ECOLAB INC [US], et al  
• US 2004162226 A1 20040819 - SUNDER MATTHIAS [FR], et al  
• WO 2015034766 A2 20150312 - ROHM & HAAS [US]  
• ROHM & HAAS: "ACUSOL™ 588 Polyphosphate and Silicate Scale Inhibitor for Laundry and Automatic Dishwashing Detergents", ROHM & HAAS - PRODUCT DATA SHEET, XP055796668, Retrieved from the Internet <URL:https://www.innovation-plus.com.tw/essence-plus689/program\_download/good/201807151744177046.pdf>  
• ANONYMOUS: "ACUSOL™ 445 / 445N / 445ND Detergent Polymer for Laundry", ROHM & HAAS - TECHNICAL DATA SHEET, July 2006 (2006-07-01), XP055438949, Retrieved from the Internet <URL:https://www.innovation-plus.com.tw/essence-plus689/program\_download/good/201807151740384823.pdf>  
Opponent : THE PROCTER & GAMBLE COMPANY  
• WO 2009092699 A1 20090730 - UNILEVER NV [NL], et al  
• US 8809249 B2 20140819 - SILVERNAIL CARTER M [US], et al

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