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(54) **Detergent compositions comprising hydrotropes**

(57) The present invention relates to aqueous laundry detergent compositions, that comprise improved hydrotropes, wherein the hydrotropes are organic molecules in which two polar groups are separated from each other by at least 5 aliphatic carbon atoms; liquid compositions

that contain such hydrotropes have a viscosity, dilution profile and dissolution behavior that render the product effective and convenient for use as a liquid laundry detergent composition.

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EUROPEAN SEARCH REPORT

Application Number
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DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X	WO 98/53035 A (PROCTER & GAMBLE) 26 November 1998 (1998-11-26) * page 1, paragraph 3 - page 3, last paragraph * * page 14, paragraph 2 * * page 27, paragraph 3 * * claim 1; examples 1,2 * -----	1-7	INV. C11D3/20 C11D17/00 C11D3/37
X	WO 96/33800 A (WITCO CORP) 31 October 1996 (1996-10-31) * page 10, line 5 - page 12, line 17 * * claims 1-3 *	1-7	
X	EP 0 136 844 A2 (STALEY MFG CO A E) 10 April 1985 (1985-04-10) * page 9, lines 2-20 * * page 13, lines 8-20 * * examples *	1-7	
X	WO 96/30483 A (WARWICK INT GROUP) 3 October 1996 (1996-10-03) * page 3, lines 10-31 * * examples; table 1 *	1-7	TECHNICAL FIELDS SEARCHED (IPC)
A	US 4 873 012 A (BROZE GUY ET AL) 10 October 1989 (1989-10-10) * column 4, line 34 - column 5, line 4 * * column 7, lines 15-24 * * claims 1,15; example 1 *	1-7	C11D
A	WO 97/00938 A (PROCTER & GAMBLE) 9 January 1997 (1997-01-09) * page 7, paragraph 2 * * page 8, paragraph 3 * example -----	1-7	
The present search report has been drawn up for all claims			
Place of search		Date of completion of the search	Examiner
The Hague		19 February 2007	Bertran Nadal, Josep
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			

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**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

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This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on
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19-02-2007

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 9853035	A	26-11-1998	AU 7578198 A	11-12-1998
WO 9633800	A	31-10-1996	AR 001819 A1	10-12-1997
			AT 263621 T	15-04-2004
			AU 5671996 A	18-11-1996
			CA 2218725 A1	31-10-1996
			DE 69632129 D1	13-05-2004
			EP 0822859 A1	11-02-1998
			JP 11505555 T	21-05-1999
			US 5753079 A	19-05-1998
EP 0136844	A2	10-04-1985	CA 1231029 A1	05-01-1988
			DE 3481524 D1	12-04-1990
			JP 1869934 C	06-09-1994
			JP 5078600 B	29-10-1993
			JP 60106893 A	12-06-1985
			US 4488981 A	18-12-1984
WO 9630483	A	03-10-1996	AU 5114696 A	16-10-1996
			ZA 9602261 A	20-03-1997
			ZA 9602262 A	20-03-1997
US 4873012	A	10-10-1989	NONE	
WO 9700938	A	09-01-1997	AT 231546 T	15-02-2003
			BR 9608998 A	29-06-1999
			CA 2225562 A1	09-01-1997
			CN 1192777 A	09-09-1998
			CZ 9704036 A3	17-06-1998
			DE 19623623 A1	02-01-1997
			DE 69625911 D1	27-02-2003
			DE 69625911 T2	15-01-2004
			EP 0842256 A1	20-05-1998
			FR 2735786 A1	27-12-1996
			GB 2302548 A	22-01-1997
			HU 9802501 A2	29-03-1999
			JP 11508300 T	21-07-1999
			NL 1003384 C2	25-02-1997
			NL 1003384 A1	23-12-1996