



(11) **EP 1 754 775 A3**

(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:
28.03.2007 Bulletin 2007/13

(51) Int Cl.:
C11D 3/20 (2006.01) **C11D 17/00** (2006.01)
C11D 3/37 (2006.01)

(43) Date of publication A2:
21.02.2007 Bulletin 2007/08

(21) Application number: **06122354.1**

(22) Date of filing: **08.08.2000**

(84) Designated Contracting States:
**AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU
MC NL PT SE**

(30) Priority: **10.08.1999 US 148056 P**
23.08.1999 US 150233 P
27.09.1999 US 156339 P
27.09.1999 US 156340 P
09.03.2000 US 188123 P

(62) Document number(s) of the earlier application(s) in
accordance with Art. 76 EPC:
00952615.3 / 1 203 066

(71) Applicant: **The Procter and Gamble Company**
Cincinnati, Ohio 45202 (US)

(72) Inventors:
• **Boutique, Jean-Pol**
5030, Gembloux (BE)

- **Broeckx, Walter**
9290, Berlare (BE)
- **Coosemans, Steven**
Kampenhout, 1910 (BE)
- **Gualco, Lorenzo**
1120, Neder-over-Heembeek (BE)
- **Ingram, David**
1030, Brussels (BE)
- **Johnston, James**
Merchtem, 1785 (BE)
- **Tcheou, Eric**
Richmond TW9 2SS (GB)

(74) Representative: **Kellenberger, Jakob**
NV Procter & Gamble Services Company SA,
Temselaan 100
1853 Strombeek-Bever (BE)

(54) **Detergent compositions comprising hydrotropes**

(57) The present invention relates to laundry detergent compositions in tablet form 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; the compositions comprise optionally a binding agent, such as a polyethylene glycol.

EP 1 754 775 A3



European Patent
Office

EUROPEAN SEARCH REPORT

Application Number
EP 06 12 2354

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	US 3 331 780 A (KRUSIUS EWALD H) 18 July 1967 (1967-07-18) * column 1, lines 50-60 * * column 2, lines 19-22,30-39 * * column 3, line 52 - column 4, line 15 * * claim 1; examples 1,2 * -----	1	INV. C11D3/20 C11D17/00 C11D3/37
A	DATABASE WPI Section Ch, Week 198803 Derwent Publications Ltd., London, GB; Class A97, AN 1988-281526 XP002187181 & JP 63 205400 A (NIPPON SODA CO) 24 August 1988 (1988-08-24) * abstract * -----	1-8	
A	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 * -----	1-8	TECHNICAL FIELDS SEARCHED (IPC) C11D
A	WO 96/33800 A (WITCO CORP) 31 October 1996 (1996-10-31) * page 10, line 5 - page 12, line 17 * * claims 1-3 * -----	1-8	
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 * ----- -/--	1-8	
The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of the search 21 February 2007	Examiner 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			

EPO FORM 1503 03.82 (P04C01)



European Patent
Office

EUROPEAN SEARCH REPORT

Application Number
EP 06 12 2354

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
A	WO 97/00938 A (PROCTER & GAMBLE) 9 January 1997 (1997-01-09) * page 7, paragraph 2 * * page 8, paragraph 3 * example -----	1-8	
P,X	EP 0 971 029 A1 (PROCTER & GAMBLE) 12 January 2000 (2000-01-12) * paragraphs [0006], [0008], [0035] * * paragraph [0136]; example 3 * -----	1-6,8	
			TECHNICAL FIELDS SEARCHED (IPC)
The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of the search 21 February 2007	Examiner 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	

4

EPO FORM 1503 03.82 (P04C01)

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

EP 06 12 2354

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
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

21-02-2007

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 3331780	A	18-07-1967	AU 417188 B2	20-09-1971
			AU 2300067 A	19-12-1968
			DE 1617093 A1	25-02-1971
			FR 1528512 A	07-06-1968
			GB 1138106 A	27-12-1968

JP 63205400	A	24-08-1988	JP 7116479 B	13-12-1995

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

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

EP 0971029	A1	12-01-2000	AU 5096199 A	01-02-2000
			BR 9911986 A	27-03-2001
			CA 2336623 A1	20-01-2000
			CN 1309691 A	22-08-2001
			CZ 20004657 A3	12-09-2001
			JP 2002520446 T	09-07-2002
			MA 24924 A1	01-04-2000
			WO 0002994 A1	20-01-2000

EPO FORM P0459

For more details about this annex : see Official Journal of the European Patent Office, No. 12/82