(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization

International Bureau (43) International Publication Date

21 February 2013 (21.02.2013)





(10) International Publication Number WO 2013/025769 A3

(51) International Patent Classification:

A61Q 19/00 (2006.01) A610 19/10 (2006.01) A61K 8/27 (2006.01) A61K 8/58 (2006.01) A61K 8/49 (2006.01)

(21) International Application Number:

PCT/US2012/050882

(22) International Filing Date:

15 August 2012 (15.08.2012)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

15 August 2011 (15.08.2011) LIS 61/523,715

- (71) Applicant (for all designated States except US): THE PROCTER & GAMBLE COMPANY [US/US]; One Procter & Gamble Plaza, Cincinnati, Ohio 45202 (US).
- (72) Inventors; and
- Inventors/Applicants (for US only): STELLA, Qing [US/US]; 7919 Cooper Road, Cincinnati, Ohio 45242 (US). COOK, Jason, Edward [US/US]; 6934 Gammwell Drive, Anderson Township, Ohio 45230 (US).
- (74) Common Representative: THE PROCTER & GAMBLE COMPANY; c/o Timothy B. Guffey, Global Patent Services, 299 East Sixth Street, Sycamore Building, 4th Floor, Cincinnati, Ohio 45202 (US).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM,

AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM,

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report (Art. 21(3))
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))
- (88) Date of publication of the international search report: 10 April 2014



INTERNATIONAL SEARCH REPORT

International application No PCT/US2012/050882

A. CLASSIFICATION OF SUBJECT MATTER INV. A61Q19/00 A61K8/27 A61Q19/10 A61K8/49 A61K8/58 ADD.

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

 $\begin{array}{ll} \mbox{Minimum documentation searched (classification system followed by classification symbols)} \\ \mbox{A61Q} & \mbox{A61K} \end{array}$

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EPO-Internal, WPI Data

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
	, , , , , , , , , , , , , , , , , , , ,	
Χ	WO 96/29983 A1 (COLGATE PALMOLIVE CO [US];	1-3,8-15
	RAMACHANDRAN PALLASSANA N [US]; ROBBINS	
	CLA) 3 October 1996 (1996-10-03)	
Υ	page 1, line 9 - line 11	1-15
	page 2, line 19 - line 22	
	page 17, line 35 - page 19, line 2 claims 40, 44	
Χ	WO 03/007900 A2 (UNILEVER PLC [GB];	1-3,8-15
	UNILEVER NV [NL]; LEVER HINDUSTAN LTD	
	[IN]) 30 January 2003 (2003-01-30)	
Υ	page 1, line 28 - line 30	1-15
	page 3, line 4 - line 19	
	page 4, line 18 - line 20 page 3, line 25 - line 31	
	claims 9, 11	
	-/	

X Further documents are listed in the continuation of Box C.	X See patent family annex.		
"Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed	 "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document member of the same patent family 		
Date of the actual completion of the international search 29 January 2014	Date of mailing of the international search report 07/02/2014		
Name and mailing address of the ISA/ European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Fax: (+31-70) 340-3016	Authorized officer Briand, Benoit		

INTERNATIONAL SEARCH REPORT

International application No
PCT/US2012/050882

		PC1/US2012/U5U882	
(Continua	tion). DOCUMENTS CONSIDERED TO BE RELEVANT	<u> </u>	
ategory*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.	
(,	FR 2 685 638 A1 (BIORGA SA LABORATOIRES [FR]) 2 July 1993 (1993-07-02) page 5, line 13 - line 20	1-3,8-15 1-15	
,	US 2011/117225 A1 (WEI KARL SHIQING [US] ET AL) 19 May 2011 (2011-05-19) paragraph [0002] claim 1	1-15	
	DE 195 37 509 A1 (EGSTO PHARM PHARMAZEUTISCHE PR [DE]) 10 April 1997 (1997-04-10) column 1, line 14 - line 43	1-15	

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No
PCT/US2012/050882

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 9629983 A1	03-10-1996	AU 5318596 A BR 9607952 A TW 449485 B US 5834409 A WO 9629983 A1 ZA 9602501 A	16-10-1996 14-07-1998 11-08-2001 10-11-1998 03-10-1996 29-09-1997
WO 03007900 A2	30-01-2003	AR 036174 A1 AT 374011 T AU 2002319286 A1 EP 1406574 A2 US 2003068289 A1 WO 03007900 A2	18-08-2004 15-10-2007 03-03-2003 14-04-2004 10-04-2003 30-01-2003
FR 2685638 A1	02-07-1993	NONE	
US 2011117225 A1	19-05-2011	NONE	
DE 19537509 A1	10-04-1997	NONE	