

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
12 May 2005 (12.05.2005)

PCT

(10) International Publication Number
WO 2005/041889 A3

- (51) International Patent Classification⁷: **A61K 31/496**, 33/00, 33/30, 9/12, 9/10, A61P 17/00
- (21) International Application Number: PCT/US2004/036321
- (22) International Filing Date: 29 October 2004 (29.10.2004)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data: 10/696,682 29 October 2003 (29.10.2003) US
- (71) Applicant (for all designated States except US): **THE PROCTER & GAMBLE COMPANY** [US/US]; One Procter & Gamble Plaza, Cincinnati, OH 45202 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): **KACZVINSKY, Joseph, Robert, Jr.** [US/US]; 518 Clemray Drive, Cincinnati, OH 45231 (US). **DEGENHARDT, Charles, Raymond** [US/US]; 10555 Wellingwood Court, Fairfield, OH 45240 (US). **GARRETT, Garry, Steven** [US/US]; 1585 Parliament Court, Fairfield, OH 45014 (US).
- (74) Common Representative: **THE PROCTER & GAMBLE COMPANY**; c/o T. David Reed, 6110 Center Hill Road, Cincinnati, Ohio 45224 (US).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Published:**
— with international search report
— before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments
- (88) Date of publication of the international search report: 2 June 2005
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: PERSONAL CARE COMPOSITION CONTAINING A DETERGENT SURFACTANT, AN ANTIDANDRUFF COMPONENT, AND KETOAMIDE SURFACTANTS

(57) Abstract: Personal care compositions that provide improved cleansing and anti-dandruff efficacy. These compositions have from about 5 to about 50 weight percent of a detergent surfactant, from about 0.1 to about 4 weight percent of an anti-dandruff agent, from about 0.001 to about 50 weight percent of at least one ketoamide surfactant, and at least about 20 weight percent water.

WO 2005/041889 A3

INTERNATIONAL SEARCH REPORT

International Application No

PCT/US2004/036321

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 A61K31/496 A61K33/00 A61K33/30 A61K9/12 A61K9/10
A61P17/00

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

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 A61K

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 practical, search terms used)

EPO-Internal, WPI Data, PAJ, CHEM ABS Data, BIOSIS, EMBASE

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	EP 0 339 539 A (THE PROCTER & GAMBLE COMPANY) 2 November 1989 (1989-11-02) page 3, line 1 - page 5, line 35; claims 1-5 -----	1-10
A	US 6 451 300 B1 (DUNLOP DAVID SCOTT ET AL) 17 September 2002 (2002-09-17) claims 1,13-17,20 column 2, line 65 - column 5, line 61 column 7, line 19 - column 13, line 34 column 16, line 31 - column 17, line 30 -----	1-10
A	US 5 302 323 A (HARTUNG ET AL) 12 April 1994 (1994-04-12) claims 1,5-7 -----	1-10
	-/--	



Further documents are listed in the continuation of box C.



Patent family members are listed in 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 document 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

7 April 2005

Date of mailing of the international search report

27/04/2005

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Schifferer, H

INTERNATIONAL SEARCH REPORT

International Application No

PCT/US2004/036321

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 00/66080 A (THE PROCTER & GAMBLE COMPANY) 9 November 2000 (2000-11-09) claims 1-11 page 35, line 7 - page 35, line 25 page 3, line 11 - page 14, line 35 page 18, line 30 - page 19, line 34 -----	1-10

INTERNATIONAL SEARCH REPORT

information on patent family members

International Application No

PCT/US2004/036321

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
EP 0339539	A	02-11-1989	AU 635205 B2	18-03-1993
			AU 3375989 A	02-11-1989
			CA 1328816 C	26-04-1994
			CN 1037271 A	22-11-1989
			DK 207289 A	29-10-1989
			EP 0339539 A2	02-11-1989
			FI 892014 A	29-10-1989
			JP 2056412 A	26-02-1990
			NZ 228466 A	28-05-1990
			PH 25172 A	27-03-1991
			US 4854333 A	08-08-1989
			US 6451300	B1
AU 759514 B2	17-04-2003			
AU 4689100 A	17-11-2000			
CA 2370939 A1	09-11-2000			
CN 1353601 A	12-06-2002			
DE 60013804 D1	21-10-2004			
EP 1175202 A1	30-01-2002			
JP 2002543105 T	17-12-2002			
WO 0066081 A1	09-11-2000			
US 5302323	A	12-04-1994	AU 3667393 A	30-12-1993
			MX 9303125 A1	01-11-1993
			WO 9324102 A1	09-12-1993
WO 0066080	A	09-11-2000	AU 772737 B2	06-05-2004
			AU 4689000 A	17-11-2000
			CA 2370938 A1	09-11-2000
			CN 1356890 A ,C	03-07-2002
			EP 1181008 A1	27-02-2002
			JP 2002543104 T	17-12-2002
			WO 0066080 A1	09-11-2000
			US 6649155 B1	18-11-2003