

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
5 February 2009 (05.02.2009)

PCT

(10) International Publication Number
WO 2009/016555 A3

(51) International Patent Classification:

A61K 8/34 (2006.01) A61K 8/898 (2006.01)
A61K 8/41 (2006.01) A61Q 5/12 (2006.01)
A61K 8/891 (2006.01)

(21) International Application Number:

PCT/IB2008/052975

(22) International Filing Date: 24 July 2008 (24.07.2008)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

60/962,232 27 July 2007 (27.07.2007) US

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(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, BR, BW, BY, BZ, CA, CH, 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, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, 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, HR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, NO, 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:
18 June 2009

(54) Title: CONDITIONING COMPOSITION COMPRISING DUAL CATIONIC SURFACTANT SYSTEM, AMINOSILICONE AND SILICONE RESIN

(57) Abstract: Disclosed is a conditioning composition comprising: (a) from about 0.1% to about 10% of a surfactant system comprising: di- and mono-alkyl quaternized ammonium salt cationic surfactants; (b) from about 1% to about 15% of a high melting point fatty compound; (c) from about 0.1% to about 20% of an aminosilicone; (d) from about 0.0001% to about 10% of a silicone resin; and (e) an aqueous carrier. The composition of the present invention can provide improved wet and dry conditioning benefits while providing chronic/long lasting color protection benefits.



WO 2009/016555 A3

INTERNATIONAL SEARCH REPORT

International application No
PCT/IB2008/052975

A. CLASSIFICATION OF SUBJECT MATTER

INV. A61K8/34 A61K8/41 A61K8/891 A61K8/898 A61Q5/12

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)
A61K A61Q

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, CHEM ABS Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|-----------|---|-----------------------|
| Y | WO 00/48556 A (UNILEVER PLC [GB]; UNILEVER NV [NL]; LEVER HINDUSTAN LTD [IN]) 24 August 2000 (2000-08-24) page 4, line 17 - page 5, line 22 page 6, line 1 - page 8, line 15; claims; examples C,D ----- | 1-7 |
| Y | GB 2 316 615 A (R & C PRODUCTS PTY LTD [AU]) 4 March 1998 (1998-03-04) page 1, line 15 - page 6, line 19 page 9, line 6 - line 22; claims ----- | 1-7 |
| Y | US 2003/157049 A1 (GAWTREY JONATHAN [FR] ET AL) 21 August 2003 (2003-08-21) paragraph [0001] - paragraph [0009] paragraph [0137] - paragraph [0139] paragraph [0442] - paragraph [0498]; example 2 ----- | 1-7 |

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Date of the actual completion of the international search

23 April 2009

Date of mailing of the international search report

08/05/2009

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INTERNATIONAL SEARCH REPORT

International application No

PCT/IB2008/052975

| C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT | | |
|--|---|-----------------------|
| Category* | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
| Y | WO 92/10161 A (PROCTER & GAMBLE [US]) 25 June 1992 (1992-06-25) page 3, line 1 - page 6, line 4; claims; example 5 page 9, line 14 - line 13 ----- | 1-7 |
| Y | WO 94/08557 A (PROCTER & GAMBLE [US]) 28 April 1994 (1994-04-28) page 2, line 12 - page 3, line 29 page 10, line 1 - page 12, line 10; examples VIII-X, XII-XV ----- | 1-7 |
| Y | WO 00/07550 A (REVLON CONSUMER PROD CORP [US]) 17 February 2000 (2000-02-17) page 1, line 10 - page 4, line 20 page 13, line 32 - page 15, line 20; example 1 ----- | 1-7 |

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/IB2008/052975

| Patent document cited in search report | | Publication date | Patent family member(s) | Publication date |
|--|------------|------------------|-------------------------|------------------|
| WO 0048556 | A | 24-08-2000 | AU 764709 B2 | 28-08-2003 |
| | | | AU 2441300 A | 04-09-2000 |
| | | | BR 0008343 A | 29-01-2002 |
| | | | CA 2362267 A1 | 24-08-2000 |
| | | | CN 1347301 A | 01-05-2002 |
| | | | EP 1150647 A1 | 07-11-2001 |
| | | | HU 0200025 A2 | 29-05-2002 |
| | | | ID 30061 A | 01-11-2001 |
| | | | JP 2002537237 T | 05-11-2002 |
| | | | PL 349896 A1 | 07-10-2002 |
| | | | TR 200102365 T2 | 21-03-2002 |
| | | | US 2003039623 A1 | 27-02-2003 |
| | | | US 2002015686 A1 | 07-02-2002 |
| | | | ZA 200106686 A | 14-08-2002 |
| GB 2316615 | A | 04-03-1998 | AU 716457 B2 | 24-02-2000 |
| | | | AU 3419197 A | 05-03-1998 |
| | | | NZ 328566 A | 23-12-1998 |
| | | | ZA 9707724 A | 02-03-1998 |
| US 2003157049 | A1 | 21-08-2003 | AU 2002301803 B2 | 09-09-2004 |
| | | | BR 0204983 A | 16-09-2003 |
| | | | CA 2411474 A1 | 08-05-2003 |
| | | | CN 1437924 A | 27-08-2003 |
| | | | EP 1312335 A2 | 21-05-2003 |
| | | | JP 3926728 B2 | 06-06-2007 |
| | | | JP 2003146834 A | 21-05-2003 |
| | | | KR 20030038526 A | 16-05-2003 |
| | | | MX PA02010951 A | 06-10-2003 |
| | | | PL 357038 A1 | 19-05-2003 |
| | | | RU 2238079 C2 | 20-10-2004 |
| US 2007154441 A1 | 05-07-2007 | | | |
| WO 9210161 | A | 25-06-1992 | AT 133065 T | 15-02-1996 |
| | | | AU 666471 B2 | 15-02-1996 |
| | | | AU 9108291 A | 08-07-1992 |
| | | | BR 9107150 A | 16-11-1993 |
| | | | CA 2097838 A1 | 06-06-1992 |
| | | | CN 1063037 A | 29-07-1992 |
| | | | CZ 9301057 A3 | 16-03-1994 |
| | | | DE 69116573 D1 | 29-02-1996 |
| | | | DE 69116573 T2 | 19-09-1996 |
| | | | DK 560879 T3 | 03-06-1996 |
| | | | EG 19657 A | 30-08-1995 |
| | | | EP 0560879 A1 | 22-09-1993 |
| | | | ES 2082447 T3 | 16-03-1996 |
| | | | FI 932563 A | 04-06-1993 |
| | | | GR 3018709 T3 | 30-04-1996 |
| | | | HK 1006151 A1 | 12-02-1999 |
| | | | HU 65092 A2 | 28-04-1994 |
| | | | IE 914215 A1 | 17-06-1992 |
| | | | JP 3046072 B2 | 29-05-2000 |
| | | | JP 6503580 T | 21-04-1994 |
| | | | KR 100231309 B1 | 15-11-1999 |
| | | | MA 22360 A1 | 01-07-1992 |
| | | | MX 9102412 A1 | 01-06-1992 |
| | | | NZ 240854 A | 27-01-1995 |
| | | | PL 168061 B1 | 30-12-1995 |

INTERNATIONAL SEARCH REPORT

Information on patent family members

| |
|---|
| International application No PCT/IB2008/052975 |
|---|

| Patent document cited in search report | A | Publication date | Patent family member(s) | Publication date |
|--|---|------------------|---|--|
| WO 9210161 | A | | PT 99697 A SG 68554 A1 SK 56493 A3 TR 25548 A | 30-10-1992 16-11-1999 06-04-1994 01-05-1993 |
| | | | | |
| WO 9408557 | A | 28-04-1994 | AU 5363394 A CA 2147474 A1 CN 1098901 A EP 0665740 A1 JP 8502491 T MX 9306599 A1 | 09-05-1994 28-04-1994 22-02-1995 09-08-1995 19-03-1996 30-06-1994 |
| | | | | |
| WO 0007550 | A | 17-02-2000 | AU 5253499 A US 6143286 A | 28-02-2000 07-11-2000 |
| | | | | |