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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:

23 December 2009

(54) Title: NON-LATHERING PERSONAL CARE COMPOSITION IN THE FORM OF AN ARTICLE

(57) Abstract: A non-lathering personal care article in the form of a porous dissolvable solid structure, comprising: from about 0% to about 10% ionic surfactant; from about 1% to about 60% of a non-surfactant cosmetic active; from about 15% to about 70% polymeric structurant, wherein the polymeric structurant has a weighted average molecular weight of from about 40,000 to about 500,000; and from about 1% to about 30% plasticizer. The article has a density of from about 0.03 g/cm³ to about 0.15 g/cm³.



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INTERNATIONAL SEARCH REPORT

International application No
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A. CLASSIFICATION OF SUBJECT MATTER

INV. A61K8/34 A61K8/81 A61Q5/06 A61Q5/12 A61Q5/00

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)

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

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>US 6 106 849 A (MALKAN NISHA [US] ET AL) 22 August 2000 (2000-08-22) column 1, line 7 - line 11 column 2, line 48 - line 59 column 3, line 3 - line 11 column 3, line 54 - line 59 column 4, line 56 - line 65 column 5, line 5 - line 20 column 6, line 11 - line 35 column 7, line 10 - line 40 column 8, line 6 - line 13 column 9, line 13 - line 17 column 9, line 62 - column 10, line 13 example 2</p> <p align="center">----- -/--</p>	1-7

Further documents are listed in the continuation of Box C.

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 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.
- *G* document member of the same patent family

Date of the actual completion of the international search

29 July 2009

Date of mailing of the international search report

04/11/2009

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INTERNATIONAL SEARCH REPORT

International application No

PCT/US2009/040739

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5 409 703 A (MCANALLEY BILL H [US] ET AL) 25 April 1995 (1995-04-25) column 1, line 6 - line 14 column 16, line 20 - line 26 column 19, line 66 - column 20, line 27	
A	US 2003/232183 A1 (DUFTON DANIEL JAMES [GB]) 18 December 2003 (2003-12-18) paragraphs [0006], [0013], [0014], [0017], [0018], [0024] - [0028], [0035] - [0037], [0073], [0080], [0090], [0113], [0125], [0128], [0127] paragraphs [0147] - [0149], [0154]	1,2,4
A	WO 03/037294 A (PROCTER & GAMBLE [US]) 8 May 2003 (2003-05-08) page 2, line 3 - line 31 page 3, line 6 - line 26 page 4, line 17 - line 24 page 4, line 34 - page 5, line 2 page 7, line 17 - line 19 page 9, line 1 - line 22 page 11, line 5 - line 9 page 11, line 24 - line 28 page 13, line 15 - line 19 page 14, line 15 - line 28 page 15, line 16 - line 21 page 16, line 20 - line 33 page 22, line 5 - line 11 page 23, line 4 - line 23 page 26, line 17 - line 25 examples 18,20,28,49,50	1-7
A	WO 01/25322 A (PROCTER & GAMBLE [US]; MCGOFF MATTHEW GRADY [GB]; STEPHENS SCOTT EDWAR) 12 April 2001 (2001-04-12) page 1, line 5 - line 8 page 1, line 30 - page 2, line 3 page 2, line 16 - line 25 page 3, line 23 - line 25 page 6, line 5 - line 8 page 7, line 9 - line 15 page 7, line 23 - line 25 page 11, line 1 - line 5 page 12, line 8 - line 19 page 12, line 26 - page 14, line 9 page 14, line 29 - line 31 page 15, line 13 - page 16, line 7 page 17, line 8 - line 13 examples 1-3	1-7

INTERNATIONAL SEARCH REPORT

International application No

PCT/US2009/040739

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P,A	ANONYMOUS: "P8136 Poly(vinyl alcohol)" INTERNET ARTICLE, [Online] XP002538935 Retrieved from the Internet: URL: http://www.sigmaaldrich.com/catalog/ProductDetail.do?D7=0&N5=SEARCH_CONCAT_PNO%7C&N4=P8136%7CSIAL&N25=0&QS=ON&F=SPEC PEC> [retrieved on 2009-07-28] -----	

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2009/040739

Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

2. Claims Nos.:
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:

3. Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.

2. As all searchable claims could be searched without effort justifying an additional fees, this Authority did not invite payment of additional fees.

3. As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:

4. No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

1 - 7

Remark on Protest

- The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee.
- The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.
- No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-7

A non-lathering personal care article in the form of a porous dissolvable solid structure comprising
(i) a non-surfactant cosmetic active,
(ii) a polymeric structurant with Mw = 40000 - 500000, and
(iii) a plasticizer
wherein said article has a density of from 0.03 to 0.15 g/cm³.

2. claims: 8-10

A process for forming a non-lathering personal care article in the form of a dissolvable solid structure comprising the following steps:
(i) preparing a pre-mix comprising surfactant and dissolved polymer structurant, wherein said premix has a certain content of solids and a certain viscosity,
(ii) aerating said pre-mix by introducing a gas into the pre-mix to form a wet aerated pre-mix,
(iii) shaping the wet pre-mix, and
(d) drying the shaped wet pre-mix to a desired final moisture content.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/US2009/040739

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