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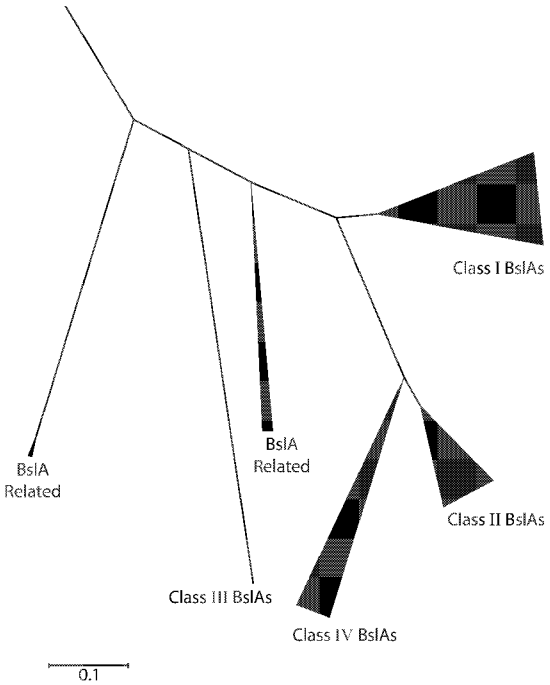
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Published:
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— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))*
— *with sequence listing part of description (Rule 5.2(a))*

(54) Title: PERSONAL CARE COMPOSITION

Figure 1



(57) Abstract: A personal care composition is disclosed. The composition comprises: a) one or more surface active proteins selected from the group consisting of Class III BslA proteins, Class IV BslA proteins, chaplin proteins, ranaspumins, latherins, and mixtures thereof and b) a surfactant.

WO 2019/094913 A3

[Continued on next page]

(88) **Date of publication of the international search report:**
27 June 2019 (27.06.2019)

INTERNATIONAL SEARCH REPORT

International application No
PCT/US2018/060696

A. CLASSIFICATION OF SUBJECT MATTER
INV. C07K14/32 C11D1/00 C11D1/94
ADD.

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)
C07K C11D

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, BIOSIS, EMBASE, WPI 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 2016/027078 A1 (UNIV EDINBURGH [GB]) 25 February 2016 (2016-02-25) claims 1, 4, 7 -----	1,2,5,6, 8-10
Y	WO 2013/113556 A2 (UNILEVER PLC [GB]; UNILEVER NV [NL]; UNILEVER HINDUSTAN [IN]; CONOPCO) 8 August 2013 (2013-08-08) claims 1, 11 ----- -/--	1,2,5,6, 8-10

[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	Date of mailing of the international search report
25 March 2019	31/05/2019

Name and mailing address of the ISA/	Authorized officer
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2

Form PCT/ISA/210 (second sheet) (April 2005)

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	SCHOR MARIEKE ET AL: "The Diverse Structures and Functions of Surfactant Proteins", TRENDS IN BIOCHEMICAL SCIENCES, ELSEVIER, AMSTERDAM, NL, vol. 41, no. 7, 27 May 2016 (2016-05-27), pages 610-620, XP029624822, ISSN: 0968-0004, DOI: 10.1016/J.TIBS.2016.04.009 the whole document -----	1,2,5,6, 8-10
Y	DATABASE UniProt [Online] 28 February 2014 (2014-02-28), Anonymous: "YuaB-like superfamily", XP002789927, Database accession no. UPI000403FB29 the whole document -----	1,2,5,6, 8-10
X,P	EP 3 269 729 A1 (PROCTER & GAMBLE [US]) 17 January 2018 (2018-01-17) claims 1-16 -----	1,2,5,6, 8-10

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2018/060696

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, 2, 5, 6, 8-10(all partially)

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, 2, 5, 6, 8-10(all partially)

   a personal care composition comprising a surface active protein out of the group of "Class III BslA proteins" and a surfactant.

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2. claims: 1, 2, 5, 6, 8-10(all partially)

   a personal care composition comprising a surface active protein out of the group of "Class IV BslA proteins" and a surfactant.

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3. claims: 3(completely); 1, 5, 6, 8-10(partially)

   a personal care composition comprising a surface active protein out of the group of "chaplin proteins" and a surfactant.

   ---

4. claims: 4(completely); 1, 5, 6, 8-10(partially)

   a personal care composition comprising a surface active protein out of the group of "ranaspumins" and a surfactant.

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5. claims: 7(completely); 1, 5, 6, 8-10(partially)

   a personal care composition comprising a surface active protein out of the group of "latherins" and a surfactant.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No
PCT/US2018/060696

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 2016027078 A1	25-02-2016	CA 2995438 A1	25-02-2016
		EP 3182836 A1	28-06-2017
		US 2017267730 A1	21-09-2017
		WO 2016027078 A1	25-02-2016
WO 2013113556 A2	08-08-2013	NONE	
EP 3269729 A1	17-01-2018	EP 3269729 A1	17-01-2018
		US 2018016522 A1	18-01-2018
		WO 2018013395 A1	18-01-2018