



(51) International Patent Classification:

A61K 8/34 (2006.01) *A61K 31/165* (2006.01)
A61K 8/46 (2006.01) *A61K 9/00* (2006.01)
A61K 8/64 (2006.01) *A61Q 19/00* (2006.01)
A61K 31/047 (2006.01) *A61Q 5/00* (2006.01)

(21) International Application Number:

PCT/IB2013/055564

(22) International Filing Date:

8 July 2013 (08.07.2013)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

12176040.9 12 July 2012 (12.07.2012) EP

(71) Applicant: **DSM IP ASSETS B.V.** [NL/NL]; Het Overloon 1, NL-6411 TE Heerlen (NL).

(72) Inventors: **CAMPICHE, Remo**; DSM Nutritional Products Ltd, c/o Patent Department, P.O. Box 2676, CH-4002 Basel (CH). **VOEGELI, Rainer**; DSM Nutritional Products Ltd, c/o Patent Department, P.O. Box 2676, CH-4002 Basel (CH). **WIKSTROEM, Peter**; DSM Nutritional Products Ltd, c/o Patent Department, P.O. Box 2676, CH-4002 Basel (CH).

(74) Agent: **BARTHELEMY DE SAIZIEU, Antoine**; DSM Nutritional Products Ltd, Patent Department, Wurmisweg 576, CH-4303 Kaiseraugst (CH).

(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, 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, PA, 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, ZW.

(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, KM, ML, MR, NE, SN, TD, TG).

Published:

— with international search report (Art. 21(3))

(88) Date of publication of the international search report:

26 March 2015

(54) Title: COSMETIC COMPOSITION COMPRISING BENZYL SULFONYL-D-SER-HOMOPHE-(4-AMIDINO-BENZYLAMIDE) AND A POLYALCOHOL

(57) Abstract: The present invention relates to the field of active compositions for use in cosmetic products for humans. More particularly, the present invention relates to a cosmetic composition comprising benzylsulfonyl-D-Ser-homoPhe-(4-amidino-benzylamide), or a salt thereof, and a polyalcohol. Moreover, it relates to the use of said composition for maintaining, restoring, and/or improving the skin hydration, and/or the transepidermal water loss level in human skin. The present invention further relates to the use of benzylsulfonyl-D-Ser-homoPhe-(4-amidino-benzylamide), or a salt thereof, in combination with a polyalcohol for the co-inhibition of both plasmin and urokinase activity in the skin and/or the scalp.



INTERNATIONAL SEARCH REPORT

International application No
PCT/IB2013/055564

A. CLASSIFICATION OF SUBJECT MATTER

INV. A61K8/34 A61K8/46 A61K8/64 A61K31/047 A61K31/165
A61K9/00 A61Q19/00 A61Q5/00

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)

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 practicable, 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 2009/026949 A1 (PENTAPHARM AG [CH]; VOEGELI RAINER [CH]; ZIEGLER HUGO [CH]; GEMPELER M) 5 March 2009 (2009-03-05) cited in the application page 3, paragraph 3 - page 5, paragraph 3 claims 14,15,16,17 page 11 - page 12; example 1 -----	1-15
Y	HARDING ET AL: "Dry skin, moisturization and corneodesmolysis", INTERNATIONAL JOURNAL OF COSMETIC SCIENCE, vol. 22, no. 1, 1 February 2000 (2000-02-01), pages 21-52, XP055003607, ISSN: 0142-5463, DOI: 10.1046/j.1467-2494.2000.00001.x page 38 - page 39 ----- -/-	1-15

☒ 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 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

18 December 2014

Date of mailing of the international search report

05/01/2015

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

Ovens, Annabel

INTERNATIONAL SEARCH REPORT

International application No

PCT/IB2013/055564

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	SCHWEINITZ A ET AL: "Design of novel and selective inhibitors of urokinase-type plasminogen activator with improved pharmacokinetic properties for the use as antimetastatic agents", JOURNAL OF BIOLOGICAL CHEMISTRY, AMERICAN SOCIETY FOR BIOCHEMISTRY AND MOLECULAR BIOLOGY, US, vol. 279, no. 32, 6 August 2004 (2004-08-06), pages 33613-33622, XP002543011, ISSN: 0021-9258, DOI: 10.1074/JBC.M314151200 [retrieved on 2004-05-18] abstract table II	1-15
A	----- WO 03/076391 A2 (CURACYTE AG [DE]; STUERZEBECKER JOERG [DE]; STEINMETZER TORSTEN [DE];) 18 September 2003 (2003-09-18) cited in the application page 1 page 5 - page 18	1-15
A	----- KATSUTA Y ET AL: "trans-4-(Aminomethyl)cyclohexane carboxylic acid methylamide (t-AMCHA methylamide) inhibits the physical interaction between urokinase-type plasminogen activator and stratum corneum, and accelerates the recovery of barrier function", JOURNAL OF DERMATOLOGICAL SCIENCE, ELSEVIER SCIENCE PUBLISHERS, SHANNON, IE, vol. 40, no. 3, 1 December 2005 (2005-12-01), pages 218-220, XP027792992, ISSN: 0923-1811 [retrieved on 2005-12-01] page 219, column 2 -----	1-15

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/IB2013/055564

Patent document cited in search report		Publication date	Patent family member(s)		Publication date
WO 2009026949	A1	05-03-2009	CN	101835449 A	15-09-2010
			EP	2197409 A1	23-06-2010
			JP	2010536892 A	02-12-2010
			KR	20100072000 A	29-06-2010
			US	2011177140 A1	21-07-2011
			US	2013224131 A1	29-08-2013
			WO	2009026949 A1	05-03-2009

WO 03076391	A2	18-09-2003	AT	399175 T	15-07-2008
			AU	2003219039 A1	22-09-2003
			CA	2478409 A1	18-09-2003
			DK	1485345 T3	03-11-2008
			EP	1485345 A2	15-12-2004
			JP	4898091 B2	14-03-2012
			JP	2005526762 A	08-09-2005
			US	2005176993 A1	11-08-2005
			US	2011065799 A1	17-03-2011
			WO	03076391 A2	18-09-2003
