



(51) International Patent Classification:

A61K 8/35 (2006.01) **A61K 8/97** (2006.01)
A61K 8/49 (2006.01) **A61Q 19/08** (2006.01)

(21) International Application Number:

PCT/EP2012/056979

(22) International Filing Date:

17 April 2012 (17.04.2012)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

11167802.5 27 May 2011 (27.05.2011) EP

(71) **Applicant** (for AE, AG, AU, BB, BH, BW, BZ, CA, CY, EG, GB, GD, GH, GM, IE, IL, KE, KN, LC, LK, LS, MT, MW, MY, NA, NG, NZ, OM, PG, QA, RW, SC, SD, SG, SL, SZ, TT, TZ, UG, VC, ZA, ZM, ZW only): **UNILEVER PLC** [GB/GB]; Unilever House, 100 Victoria Embankment, London Greater London EC4Y 0DY (GB).

(71) **Applicant** (for all designated States except AE, AG, AU, BB, BH, BW, BZ, CA, CY, EG, GB, GD, GH, GM, IE, IL, IN, KE, KN, LC, LK, LS, MT, MW, MY, NA, NG, NZ, OM, PG, QA, RW, SC, SD, SG, SL, SZ, TT, TZ, UG, US, VC, ZA, ZM, ZW): **UNILEVER N.V.** [NL/NL]; Weena 455, NL-3013 AL Rotterdam (NL).

(71) **Applicant** (for IN only): **HINDUSTAN UNILEVER LIMITED** [IN/IN]; Unilever House, B.D. Sawant Marg Chakala Andheri (East), Mumbai, Maharashtra 400 099 (IN).

(72) Inventors; and

(75) **Inventors/Applicants** (for US only): **FOWLER, Mark, Ian** [GB/GB]; Unilever R&D Colworth, Sharnbrook, Bedford Bedfordshire MK44 1LQ (GB). **JENKINS, Gail** [GB/GB]; Unilever R&D Colworth, Sharnbrook, Bedford Bedfordshire MK44 1LQ (GB). **WAINWRIGHT, Linda,**

Jane [GB/GB]; Unilever R&D Colworth, Sharnbrook, Bedford Bedfordshire MK44 1LQ (GB).

(74) **Agent: ACHAM, Nicholas, Clive;** Unilever PLC, Unilever Patent Group, Colworth House, Sharnbrook, Bedford Bedfordshire MK44 1LQ (GB).

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

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:

13 June 2013

(54) Title: ANTI-AGEING COMPOSITION

(57) **Abstract:** This invention relates to the provision of a topical or oral anti-ageing skin composition. Skin ageing, such as the appearance of fine lines, wrinkles or sagging, is a major age-related consumer issue. There is a continuing need for effective products to prevent or reduce the on-set of skin ageing. Thus in one aspect of the invention, a topical or oral composition for delaying the visible signs of skin ageing is provided, the composition comprising curcumin and a composition containing as its main component proanthocyanidin oligomer to which a substance having a phloroglucinol ring structure or resorcinol ring structure has been bonded, which is obtainable by heating plant materials comprising proanthocyanidin polymer or aqueous extract thereof comprising proanthocyanidin polymer, with a substance having a phloroglucinol ring structure or resorcinol ring structure in an acidic aqueous solution.



INTERNATIONAL SEARCH REPORT

International application No
PCT/EP2012/056979

A. CLASSIFICATION OF SUBJECT MATTER
INV. A61K8/35 A61K8/49 A61K8/97 A61Q19/08
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.
X	wo 02/ 102349 AI (LG HOUSEHOLD & HEALTH CARE LTD [KPs] ; KIM MOON -MOO [KR] ; KIM SANG - NYUN) 27 December 2002 (2002 - 12 - 27)	1-9, 12-17
Y	claims 1,5 page 1, line 5 - line 11 -----	10, 11
A, P	"Procyani din" , wikipedia , 11 December 2011 (2011-12-11) , XP002671651, Retrieved from the Internet: URL: http://en .wiki pedi a.org/wiki/Procyani d in [retrieved on 2012-03-16] the whole document ----- - / -	1-17



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

24 April 2013

Date of mailing of the international search report

06/05/2013

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

Lenzen , Achim

INTERNATIONAL SEARCH REPORT

International application No
PCT/EP2012/056979

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	us 2008/260695 AI (LU KUNG-MING [TW]) 23 October 2008 (2008-10-23) exampl es 1-5 cl aim 1 -----	1-9, 12 , 15-17
A	FUJII ET AL: "Eval uation of the safety and toxi city of the oligomeri zed polyphenol Oligonol ", FOOD AND CHEMICAL TOXICOLOGY, PERGAMON, GB, vol . 45, no. 3, 31 January 2007 (2007-01-31) , pages 378-387, XP005867798, ISSN: 0278-6915, DOI : 10. 1016/J . FCT.2006.08.026 paragraph 2.1 figure 1 -----	1-17
Y	EP 1 852 430 AI (UNIV NAGASAKI [JP] ; USAI EN PHARMACEUTICAL co LTD [JP] ; AMINO UP CHEMIC) 7 November 2007 (2007-11-07) cited in the appl icati on paragraphs [0013] , [0014] , [0036] , [0037] -----	10, 11

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/EP2012/056979

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 02102349	AI	27-12-2002	KR 20020096179 A WO 02102349 AI	31-12-2002 27-12-2002
US 2008260695	AI	23-10-2008	TW 200841883 A US 2008260695 AI	01-11-2008 23-10-2008
EP 1852430	AI	07-11-2007	AU 2006216182 AI BR PI0607773 A2 CA 2599295 AI CN 101133043 A EP 1852430 AI JP 4941991 B2 KR 20070110040 A NZ 560436 A US 2009047305 AI WO 2006090830 AI	31-08 -2006 06- 10-2009 31-08 -2006 27-02 -2008 07- 11-2007 30- 05-2012 15-11 -2007 31- 03-2011 19-02 -2009 31-08 -2006