(19) World Intellectual Property **Organization**

International Bureau





(43) International Publication Date 9 June 2005 (09.06.2005)

(10) International Publication Number WO 2005/051288 A3

- (51) International Patent Classification⁷: A61K 7/00, 9/00, 33/42, 33/14, 33/00, 31/715, 31/70, 31/44, 31/38, 31/195
- (21) International Application Number:

PCT/US2004/035404

- **(22) International Filing Date:** 26 October 2004 (26.10.2004)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:

10/716,378 18 November 2003 (18.11.2003)

(63) Related by continuation (CON) or continuation-in-part (CIP) to earlier application:

US 10/716,378 (CIP) Filed on 18 November 2003 (18.11.2003)

- (71) Applicant (for all designated States except US): MARY KAY, INC. [US/US]; 16251 Dallas Parkway, Addison, TX 75001 (US).
- (72) Inventor; and
- (75) Inventor/Applicant (for US only): SCHILTZ, John, R. [US/US]; 1432 Falls Road, Coppell, TX 75019 (US).
- (74) Agent: KRAWZSENEK, Michael, R.; Fulbright & Jaworski, LLP, 600 Congress Avenue, Suite 2400, Austin, TX 78701 (US).

- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US (patent), UZ, VC, VN, YU, 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, HU, IE, IT, LU, MC, NL, 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 August 2005

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: COMPOSITIONS FOR ACHIEVING BENEFITS IN SKIN USING KEY CELLULAR METABOLIC INTERMEDI-

(57) Abstract: The present invention relates to novel methods and compositions comprising key metabolic ingredients for treating aged, mature, nutritionally-compromised, or environmentally-damaged skin. These methods and compositions provide improvements in the skin's visual appearance, physiological functions, clinical properties, and biophysical properties.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/35404

A. CLASSIFICATION OF SUBJECT MATTER					
IPC(7) : A61K 7/00, 9/00, 33/42, 33/14, 33/00, 31/715, 31/70, 31/44, 31/38, 31/195					
US CL: 424/400, 401, 606, 681, 717; 514/54, 62, 356, 438, 561 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) U.S.: 424/400, 401, 606, 681, 717; 514/54, 62, 356, 438, 561					
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) Please See Continuation Sheet					
C. DOCUMENTS CONSIDERED TO BE RELEVANT					
Category *	Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No.				
X	US 5,654,266 A (CHEN et al) 5 August 1997 (05.08.1997), column 8, lines 12-53; column 9, 1-3, 5, 7-12, 16-27, 29,				
Y	lines 30-36. US 6,495,126 B1 (SCHILTZ) 17 December 2002 (17.12.2002), Abstract; column 5, lines 35- 40; column 7, lines 27-67; column 8, lines 1-4, 57-60.			31-36, 40-4 1-44	
Further	documents are listed in the continuation of Box C.		See patent family annex.		
Special categories of cited documents:		<u></u>	later document published after the inter	national filing date or priority	
"A" document defining the general state of the art which is not considered to be of particular relevance			date and not in conflict with the application but cited to understand the principle or theory underlying the invention		
"E" earlier ap	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)		document of particular relevance; the c considered novel or cannot be consider when the document is taken alone		
establish			document of particular relevance; the c considered to involve an inventive step combined with one or more other such	when the document is	
"O" documen			being obvious to a person skilled in the	art	
"P" document published prior to the international filing date but later than the priority date claimed		"&" document member of the same patent family			
Date of the actual completion of the international search		Date of mailing of the international search report			
23 June 2005 (23.06.2005)			0.8 1111 2005		
Name and mailing address of the ISA/US			Authorized office		
Mail Stop PCT, Attn: ISA/US Commissioner for Patents		Marina Lamm			
P.O. Box 1450		Telephone/No. (703) 308-1234			
Alexandria, Virginia 22313-1450 Facsimile No. (703) 305-3230				00/2	

Form PCT/ISA/210 (second sheet) (January 2004)