

INTERNATIONAL SEARCH REPORT

International application No.

PCT/KR2019/004499

A. CLASSIFICATION OF SUBJECT MATTER

A61K 8/92(2006.01)i, A61K 8/36(2006.01)i, A61Q 7/00(2006.01)i, C12P 7/64(2006.01)i

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 8/92; A61K 31/568; A61K 35/78; A61K 36/30; A61K 36/48; A61K 7/00; A61K 8/97; A61P 5/26; A61Q 19/00; A61K 8/36; A61Q 7/00; C12P 7/64

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Korean utility models and applications for utility models: IPC as above

Japanese utility models and applications for utility models: IPC as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

eKOMPASS (KIPO internal) & Keywords: hair loss, borage oil, lipase, gamma-linoleic acid, cosmetic, external use

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	WO 2015-111902 A1 (BEN'S LAB. CO., LTD.) 30 July 2015 See abstract; paragraphs [30], [72], [81]; claims 1, 8, 9, 13.	1-3,6-9
A		4,5
Y	ZANZOTTERA, F. et al. Efficacy of a nutritional supplement, standardized in fatty acids and phytosterols, on hair loss and hair health in both women and men. <i>Journal of Cosmetology & Trichology</i> . 2017, vol. 3, no. 2, pages 1-7 See abstract; page 6.	1-3,6-9
A	KR 10-2016-0008774 A (BIOLAND LTD.) 25 January 2016 See abstract; paragraph [0065]; claim 1.	1-9
A	JP 2002-363085 A (MARUZEN PHARMACEUT CO., LTD.) 18 December 2002 See the entire document.	1-9
A	US 2006-0110475 A1 (SCHWALLER, M.) 25 May 2006 See the entire document.	1-9
A	US 8778916 B2 (DUDLEY, R. E. et al.) 15 July 2014 See the entire document.	1-9



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

22 AUGUST 2019 (22.08.2019)

Date of mailing of the international search report

22 AUGUST 2019 (22.08.2019)

Name and mailing address of the ISA/KR


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INTERNATIONAL SEARCH REPORT
Information on patent family members

International application No.

PCT/KR2019/004499

Patent document cited in search report	Publication date	Patent family member	Publication date
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JP 2002-363085 A	18/12/2002	JP 4869498 B2	08/02/2012
US 2006-0110475 A1	25/05/2006	EP 1536697 A1 EP 1536697 B1 WO 2004-023897 A1	08/06/2005 21/02/2007 25/03/2004
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International application No.

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Patent document cited in search report	Publication date	Patent family member	Publication date
		US 8778917 B2	15/07/2014
		US 8828428 B1	09/09/2014
		WO 2006-113505 A2	26/10/2006
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