

(51) International Patent Classification:
A61K 36/185 (2006.01)(21) International Application Number:
PCT/KR2008/007706(22) International Filing Date:
26 December 2008 (26.12.2008)

(25) Filing Language: Korean

(26) Publication Language: English

(30) Priority Data:
10-2007-0140988
28 December 2007 (28.12.2007) KR(71) Applicant (for all designated States except US):
NEWGEX INC. [KR/KR]; 312, Golden Helix, Seoul National University, Sinrim-dong, Kwanak-ku, Seoul 151-744 (KR).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **SEO, Jong-Bae** [KR/KR]; 181-425, Sadang 5-dong, Dongjak-gu, Seoul 156-095 (KR). **PARK, Jae-Young** [KR/KR]; 101, Tandyhouse 4-cha, 180-597, Bongcheon 11-dong, Gwanak-gu, Seoul 151-050 (KR). **CHOI, Sun-Mi** [KR/KR]; 235-4, Jeongja-dong, Bundang-gu, Seongnam-si, Gyeonggi-do 463-010 (KR). **PARK, Sang-Wook**[KR/KR]; 204, 1641-69, Sillimbon-dong, Gwanak-gu, Seoul 151-029 (KR). **CHOE, Sung-Sik** [KR/KR]; 361-16, Gunja-dong, Gwangjin-gu, Seoul 143-840 (KR). **CHOI, Eun-Wook** [KR/KR]; 106-1205, Sintree Apt., 1-danji, Sinjeong 3-dong, Yangcheon-gu, Seoul 158-073 (KR). **SEEN, Dong-Seung** [KR/KR]; 1006-803, Irwon-suwonmangpoJugong Apt., 447, Mangpo-dong, Yeongtong-gu, Suwon-si, Gyeonggi-do 443-400 (KR). **LEE, Tae-Gyu** [KR/KR]; 306-202, Hansolmaeul Apt. 731, Irwon-dong, Gangnam-gu, Seoul 135-942 (KR).(74) Agents: **KIM, Moon-Jae**, et al.; KAL Bldg. 3rd Fl., 41-3, Seosomun-Dong, Jung-Gu, Seoul 100-813 (KR).

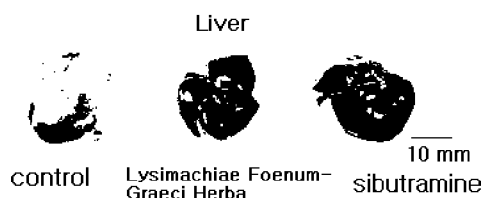
(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, 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, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, 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,

[Continued on next page]

(54) Title: COMPOSITION FOR PREVENTING AND TREATING METABOLIC DISEASES COMPRISING THE EXTRACT OF *LYSIMACHIAE FOENUM-GRAECI HERBA*

A.



B.



C.

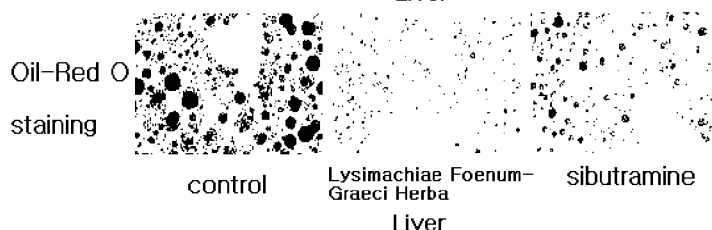


Fig. 1

(57) Abstract: Disclosed are raw material, functional foods, and herb medicines for preventing and treating metabolic diseases, which comprise a *Lysimachiae Foenum-Graeci Herba* extract as an effective ingredient. The *Lysimachiae Foenum-Graeci Herba* extract have an activity of reducing blood glucose levels, triglycerides and cholesterol levels, AST and ALT levels, and fat in the liver, and thus can be effectively used as a hepatic protector and a remedy for preventing and treating various metabolic diseases including diabetes, high blood pressure, fatty liver, cardiovascular diseases, and hyperlipidemia.



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, HR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

— *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:

20 August 2009

Published:

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

INTERNATIONAL SEARCH REPORT

International application No.
PCT/KR2008/007706**A. CLASSIFICATION OF SUBJECT MATTER****A61K 36/185(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)

IPC A61K 36/185

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)

eKIPASS, STN (Caplus), Pubmed

* Key words : Lysimachiae Foenum-Graeci, metabolic, diabetes, arterosclerosis, hyperlipidemia

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	KR 10-2000-0010275 A (LG CHEMICAL CO., LTD) 15 February 2000 See the whole document.	1 - 5
A	KR 10-2006-0033068 A (Kim, A. T.) 19 April 2006 See the whole document.	1 - 5
A	KR 10-2001-0003366 A (Bak, J. J. and Yang, J. E.) 15 January 2001 See the whole document.	1 - 5
A	KR 10-2006-0119047 A (Jang S.P.) 24 November 2006 See the whole document.	1 - 5

☐ 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 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

06 JULY 2009 (06.07.2009)

Date of mailing of the international search report

06 JULY 2009 (06.07.2009)

Name and mailing address of the ISA/KR

Korean Intellectual Property Office
Government Complex-Daejeon, 139 Seonsa-ro, Seo-
gu, Daejeon 302-701, Republic of Korea

Facsimile No. 82-42-472-7140

Authorized officer

LEE, SUN HWA

Telephone No. 82-42-481-5606



INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/KR2008/007706

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
KR 10-2000-0010275 A	15.02.2000	NONE	
KR 10-2006-0033068 A	19.04.2006	NONE	
KR 10-2001-0003366 A	15.01.2001	NONE	
KR 10-2006-0119047 A	24.11.2006	NONE	