

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization  
International Bureau



(43) International Publication Date  
17 November 2011 (17.11.2011)

(10) International Publication Number  
**WO 2011/143242 A3**

(51) International Patent Classification:

A61K 8/49 (2006.01) A61K 8/33 (2006.01)  
A61K 8/35 (2006.01) A61Q 13/00 (2006.01)

(21) International Application Number:

PCT/US2011/035956

(22) International Filing Date:

10 May 2011 (10.05.2011)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

61/332,982 10 May 2010 (10.05.2010) US  
61/332,978 10 May 2010 (10.05.2010) US

(71) Applicant (for all designated States except US):  
**SEGETIS, INC.** [US/US]; 680 Mendelsohn Avenue N.,  
Golden Valley, Minnesota 55427 (US).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **YONTZ, Dorie J.**  
[US/US]; 8208 Ensign Road, Bloomington, Minnesota  
55438 (US).

(74) Agent: **RODRIGUES, David E.**; Cantor Colburn, LLP,  
20 Church Street, 22nd Floor, Hartford, Connecticut  
06103 (US).

(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, RO, RS, RU, 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, 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).

**Declarations under Rule 4.17:**

- as to applicant's entitlement to apply for and be granted  
a patent (Rule 4.17(ii))
- as to the applicant's entitlement to claim the priority of  
the earlier application (Rule 4.17(iii))

**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:

5 April 2012



**WO 2011/143242 A3**

(54) Title: FRAGRANT FORMULATIONS, METHODS OF MANUFACTURE THEREOF AND ARTICLES COMPRISING THE SAME

(57) Abstract: Disclosed herein is a fragrant formulation comprising a fragrant composition, and an alkyl ketal ester. Disclosed herein too are methods for manufacturing the fragrant formulation.

**A. CLASSIFICATION OF SUBJECT MATTER***A61K 8/49(2006.01)i, A61K 8/35(2006.01)i, A61K 8/33(2006.01)i, A61Q 13/00(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 8/49; A61K 8/26; C07D 319/06; C07C 33/025; C07D 317/30; A61K 8/23; A61K 8/34

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  
Japanese utility models and applications for utility models

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

eKOMPASS(KIPO internal) &amp; Keywords: alkyl ketal ester, active agent, personal care, LGK, LPK, wax, emulsion, oil, aqueous phase

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X A	WO 2008-046795 A1 (SYMRISE GMBH & CO. KG et al.) 24 April 2008 See pages 9-22, 36-41 and claims 1, 3, 6	1-4,6-13,15-22 ,26-30 5,14,23-25
A	WO 2009-065244 A1 (GIVAUDAN SA et al.) 28 May 2009 See abstract, page 12 and claims 1, 3-4	1-30
A	US 2008-0242721 A1 (SELIFONOV, SERGEY) 02 October 2008 See abstract, paragraphs [0087], [0088], [0109]	1-30
A	WO 2010-036884 A1 (SEGETIS, INC. et al.) 01 April 2010 See abstract and claim 1	1-30

 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

"&amp;" document member of the same patent family

Date of the actual completion of the international search

30 JANUARY 2012 (30.01.2012)

Date of mailing of the international search report

**08 FEBRUARY 2012 (08.02.2012)**

Name and mailing address of the ISA/KR

Korean Intellectual Property Office  
Government Complex-Daejeon, 189 Cheongsu-ro,  
Seo-gu, Daejeon 302-701, Republic of Korea

Facsimile No. 82-42-472-7140

Authorized officer

Jung Da Won

Telephone No. 82-42-481-8147



**INTERNATIONAL SEARCH REPORT**

Information on patent family members

International application No.

**PCT/US2011/035956**

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 2008-046795 A1	24.04.2008	EP 1923041 A1	21.05.2008
		EP 2063853 A1	03.06.2009
		US 2010-0215775 A1	26.08.2010
WO 2009-065244 A1	28.05.2009	CN 101868437 A	20.10.2010
		EP 2220019 A1	25.08.2010
		GB 0722824 D0	02.01.2008
		JP 2011-504469 A	10.02.2011
		JP 2011-504469 T	10.02.2011
		MX 2010005236 A	27.05.2010
		US 2011-0130470 A1	02.06.2011
US 2008-0242721 A1	02.10.2008	AU 2006-318475 A1	31.05.2007
		AU 2006-318475 A8	21.05.2009
		CA 2630744 A1	31.05.2007
		CA 2630744 C	03.05.2011
		CN 101346067 A	14.01.2009
		EP 1954140 A2	13.08.2008
		EP 1954140 A4	23.12.2009
		JP 2009-519901 A	21.05.2009
		JP 2009-519901 T	21.05.2009
		KR 20080087093 A	30.09.2008
		RU 2008124895 A	27.12.2009
WO 2007-062118 A2	31.05.2007		
WO 2007-062118 A3	29.11.2007		
WO 2010-036884 A1	01.04.2010	CA 2736636 A1	01.04.2010
		WO 2010-151558 A1	29.12.2010