

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
29 May 2008 (29.05.2008)

PCT

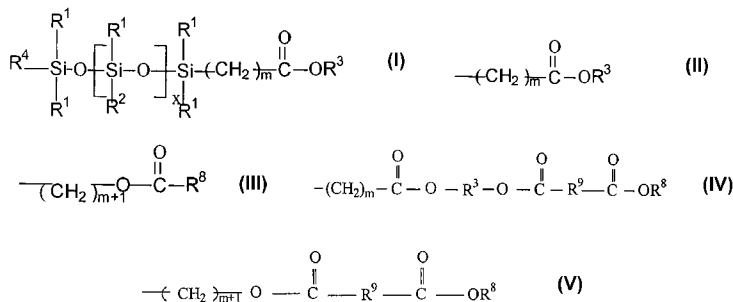
(10) International Publication Number
WO 2008/063273 A3

- (51) International Patent Classification:
A61K 8/00 (2006.01) A61K 8/18 (2006.01)
- (21) International Application Number:
PCT/US2007/020829
- (22) International Filing Date:
27 September 2007 (27.09.2007)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
11/556,234 3 November 2006 (03.11.2006) US
- (71) Applicants (for all designated States except US): SIL-TECH CORPORATION [CA/CA]; 225 Wicksteed Avenue, Toronto, Ontario, M4H 1G5 (CA). EXONMOBIL CHEMICAL PATENTS INC. [US/US]; 13501 Katy Freeway, Houston, TX 77079 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): PAFFORD, Bernie [US/US]; 30 Exeter Road, Berkeley Heights, NJ 07922

- (US). WANG HAN, Wenning [US/US]; 4 Valerie Lane, Lawrenceville, NJ 08648 (US). HO, Suzzy, Chen Hsi [US/US]; 1066 Stuart Road, Princeton, NJ 08540 (US). TEMME, Nicole, Blandine [CH/US]; 430 West Milton Avenue, Rahway, NJ 07065 (US). ZIELINSKI, James [US/US]; 7 Triplet Road, Somerset, NJ 08873 (US). O'LENICK, Anthony, J., Jr. [US/US]; 2170 Luke Edwards Road, Dacula, GA (US). VRCKOVNIK, Rick [CA/CA]; 423 Avenue Road, #3, Toronto, Ontario, M6R 1N4 (CA). RIDDLE, Mark, W. [CA/CA]; 84 Westminster Avenue, Toronto, Ontario, M6R 1N4 (CA).
- (74) Agent: GREELEY, Paul, D.; Olandt, Greeley, Ruggiero & Perle, L.L.P., One Landmark Square, 10th Floor, Stamford, CT 06901 (US).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, 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, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW,

[Continued on next page]

(54) Title: FLUIDS HAVING SILICONE GROUPS AND ORGANIC GROUPS CONTAINING ESTERS



(57) Abstract: A silicone composition having the formula (I) wherein R¹ are independently selected from the group consisting of: an alkyl having 1-5 carbon atoms, a substituted alkyl having 1-5 carbon atoms optionally substituted by one or more fluorine atoms, and a phenyl, and R² is selected from the group consisting of: hydrogen, alkyl of 1 to 45 carbon atoms, substituted alkyl of 1 to 45 carbon atoms optionally substituted by one or more fluorine atoms, aryl, a partially esterified ester-containing group represented by the formula (II) and a reverse ester thereof represented by the formula (III) and the formula (IV), and a reverse ester thereof represented by the formula (V) provided that if R¹ is anything but methyl or ethyl, then R² must be a methyl, ethyl or butyl.

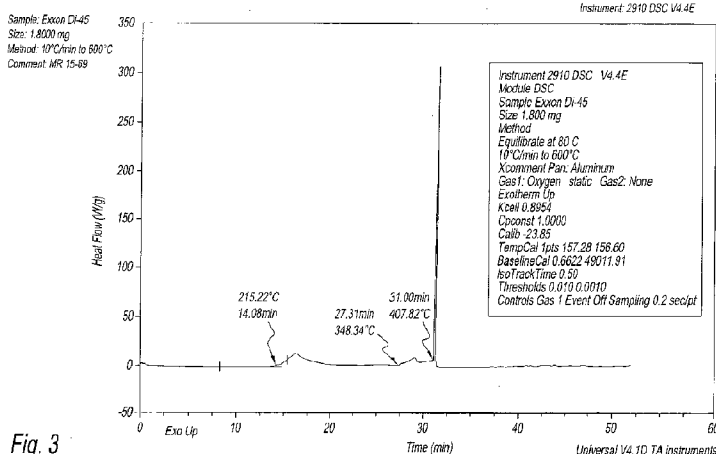


Fig. 3

WO 2008/063273 A3



MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, 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).

(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,

Published:

— *with international search report*

(88) Date of publication of the international search report:
31 July 2008

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US 07/20829

A. CLASSIFICATION OF SUBJECT MATTER

IPC(8) - A61K 8/00 (2008.01); A61K 8/18 (2008.01)

USPC - 424/63

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(8) - A61K 8/00 (2008.01); A61K 8/18 (2008.01)

USPC - 424/63

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
USPC - 424/78.03, 64, 70, 71; 428/404, 407, 447, 450; 528/27, 28 (search terms below)

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

PubWEST(USPT,PGPB,EPAB,JPAB); Google Patents; Google Scholar

(silicone, composition, partially esterified, ester, alcohol, alkyl, hydride, vinyl, terminated, siloxane, polysiloxane, fluorine, trimethylolpropane)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 6,984,390 B2 (Sakuta) 10 January 2006 (10.01.2006) column 2, line 3-6, column 11, line 13-20, line 35-40, line 50-55, column 12, line 1-8, line 18-22, line 28, column 13, line 9-27	1-47
Y	US 4,725,658 A (Thayer, et al.) 16 February 1988 (16.02.1988) column 2, line 38-50, column 3, line 18-38, line 41-54, line 61-67, column 4, line 8-13, line 33-40, line 43-48, line 56-60, column 5, line 1-17, line 55, line 68, column 7, line 1-13	1-47

 Further documents are listed in the continuation of Box C.

* 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

4 February 2008 (04.02.2008)

Date of mailing of the international search report

10 MAR 2008

Name and mailing address of the ISA/US

Mail Stop PCT, Attn: ISA/US, Commissioner for Patents
P.O. Box 1450, Alexandria, Virginia 22313-1450

Facsimile No. 571-273-3201

Authorized officer:

Lee W. Young

PCT Helpdesk: 571-272-4300
PCT OSP: 571-272-7774