

(19) World Intellectual Property Organization  
International Bureau



(43) International Publication Date  
22 November 2007 (22.11.2007)

PCT

(10) International Publication Number  
**WO 2007/133525 A3**

(51) International Patent Classification:  
A61N 5/06 (2006.01) A61K 9/12 (2006.01)

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(21) International Application Number:  
PCT/US2007/011074

(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, 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, 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.

(22) International Filing Date: 8 May 2007 (08.05.2007)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
60/799,509 11 May 2006 (11.05.2006) US  
11/800,400 4 May 2007 (04.05.2007) US

(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, 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).

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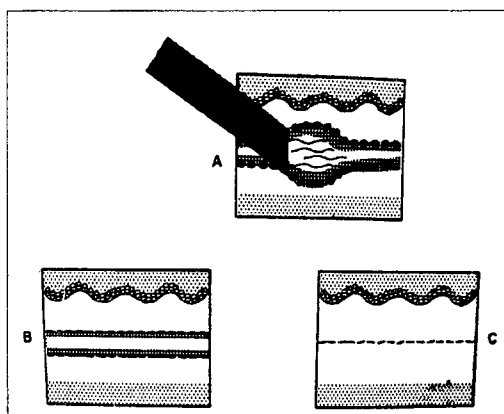
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Published:  
— with international search report

[Continued on next page]

(54) Title: PHOTODYNAMIC FOAM COMPOSITION AND SCLEROSIS TREATMENT

FIG. 2



(57) Abstract: A photodynamic composition and a method for in vivo photonic treatments that is minimally invasive, versatile and precise are described. The invention allows for photonic treatments with only minimal insertions into the area of treatment, often a single one. The invention may be used with a standard insertion component making the system inexpensive and easy for doctors to use. The invention has applications in several areas of treatment. In vivo treatment of aesthetic skin blemishes such as varicose veins can be performed with minimal external effects. A predetermined amount of a photodynamic composition, as a foam, is injected into the vein or structure of concern. The composition is a sclerosis foam including a photosensitizer. By external compression, where applicable, the photodynamic composition is forced to remain in the vein or structure. After a predetermined time, radiation of appropriate wavelength from a light source is delivered directly to the vascular structure. Among the key benefits of the present invention are the elimination of targeted varicose veins, without need for anesthesia along the length of the vein; no edema; no skin reaction; and tactile appreciation.

WO 2007/133525 A3



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**(88) Date of publication of the international search report:**

18 December 2008

# INTERNATIONAL SEARCH REPORT

International application No.

PCT/US07/11074

## A. CLASSIFICATION OF SUBJECT MATTER

IPC: A61N 5/06( 2006.01);A61K 9/12( 2006.01)

USPC: 607/88

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. : 607/88-90; 606/9-12

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)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 20050154049 A (DEES et al) 14 July 2005 (10.07.2005), see the entire document	1, 3
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Y		1-8, 12
Y	US 20050271596 A 8 December 2005 (08.12.20005), see the entire document	2, 4-8, 12
Y	CABRERA JUAN R. Elargissement des Limits de la Sclerotherapie: Nouveaux Produits Sclerosants, Phlebologie 1997, Vol 50, No. 2, 181-188 (see the attached translation)	2, 4-8, 12
Y	US 20060035952 A, (NIFANTIEV et al) 16 February 2006 (16.02.2006), see the entire document	12

☐ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

* Special categories of cited documents:	
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"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	"&" document member of the same patent family

Date of the actual completion of the international search

20 August 2008 (20.08.2008)

Date of mailing of the international search report

Name and mailing address of the ISA/US

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## INTERNATIONAL SEARCH REPORT

International application No.

PCT/US07/11074

### Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:  
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:  
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
3. ☒ Claims Nos.: 9-11  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

### Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying additional fees, this Authority did not invite payment of any additional fees.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

- Remark on Protest**
- ☐ The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee.
- ☐ The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.
- ☐ No protest accompanied the payment of additional search fees.