

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
9 December 2004 (09.12.2004)

PCT

(10) International Publication Number  
**WO 2004/105635 A3**

(51) International Patent Classification<sup>7</sup>: **A61F 2/06**

(21) International Application Number:  
PCT/IL2004/000470

(22) International Filing Date: 2 June 2004 (02.06.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
10/452,987 3 June 2003 (03.06.2003) US

(71) Applicant (for all designated States except US): **ISRAEL AIRCRAFT INDUSTRIES LTD.** [IL/IL]; Ben Gurion International Airport, 70100 Lod (IL).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **BAUM, Abraham** [IL/IL]; 15 Hameri Street, 53332 Givataim (IL). **HOCH, Elisha** [IL/IL]; 17 Hazait Street, 76349 Rehovot (IL). **SCHNITZER, Israel** [IL/IL]; 5 Brodezký Street, 69051 Tel Aviv (IL). **KACIR, Lior** [IL/IL]; 12 Hanassi Harishon Street, 76300 Rehovot (IL). **RABINOVICH, Felix** [IL/IL]; 7 Hanagid Street, 75482 Rishon Lezion (IL). **ILIA, Reuben** [IL/IL]; 3 Yehoram Street, 64465 Beersheva (IL).

(74) Agent: **KORAKH, Eliav**; Borochoy, Korakh, Eliezri & Co., P.O. Box 58100, Kiryat Atidim, 61580 Tel Aviv (IL).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, 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, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(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, IT, LU, MC, 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).

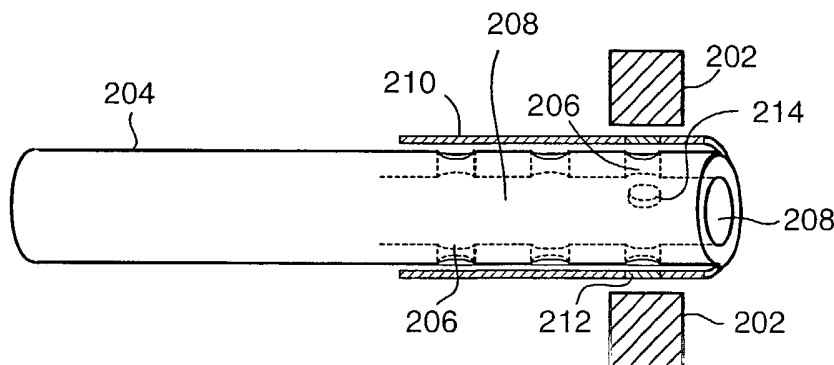
Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

(88) Date of publication of the international search report:  
14 April 2005

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: METHOD AND APPARATUS FOR MANUFACTURING MEDICAL SUPPORT DEVICES



(57) Abstract: Method for producing a coated medical support device capable of insertion into the body, the method including the procedures of applying a coating to a section of a work piece (210), position the work-piece (210) in the vicinity of an electromagnetic field generator, and substantially proximate a forming mandrel (204), inducing electromagnetic forces in the work-piece (210) which accelerate the work-piece (210) toward the forming mandrel (204), and

forming the work-piece (210) to a medical support device, by changing the original physical configuration of the work-piece (210) to a second physical configuration, the forming mandrel having a mandrel physical configuration, the second physical configuration being influenced by the mandrel physical configuration.

# INTERNATIONAL SEARCH REPORT

International application No.

PCT/IL04/00470

## A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : A61F 2/06  
US CL : 606/191-198, 623/1.1-1.22

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. : 606/191-198, 623/1.1-1.22

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)  
EAST

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5,899,917 A (Edwards et al.) 04 May 1999; abstract; col. 2, lines 60-62; Fig. 4E.	1-6, 10, 12, 14-18.

☐ 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 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

07 February 2005 (07.02.2005)

Date of mailing of the international search report

04 MAR 2005

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. (703) 305-3230

Authorized officer

Vy Q. Bu

Telephone No. 703-308-0858