

05/11/04
2004064424

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

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
11 December 2003 (11.12.2003)

PCT

(10) International Publication Number
WO 03/101311 A1

- (51) International Patent Classification⁷: **A61B 17/08** (74) Agent: **JEREMY M. BEN-DAVID & CO. LTD.**; Har Hotzvim Hi-Tech Park, P.O. Box 45087, 91450 Jerusalem (IL).
- (21) International Application Number: PCT/IL03/00398
- (22) International Filing Date: 15 May 2003 (15.05.2003)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
10/158,673 30 May 2002 (30.05.2002) US
- (63) Related by continuation (CON) or continuation-in-part (CIP) to earlier application:
US 10/158,673 (CIP)
Filed on 30 May 2003 (30.05.2003)
- (71) Applicant (for all designated States except US): **NITI MEDICAL TECHNOLOGIES LTD.** [IL/IL]; 2 Ham-lacha Street, P.O. Box 8634, Sappir Industrial Park, 40505 Netanya (IL).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): **MONASSEVITCH, Leonid** [IL/IL]; 6 Boaron St. Apt A/18, 38303 Givat Olga (IL). **LELCUK, Shlomo** [IL/IL]; 20 Hanof Street, 56540 Savion (IL). **ARAD, Michael** [IL/IL]; 32 Remez Street, 62192 Tel Aviv (IL). **HARARI, Boaz** [IL/IL]; 135 Aba-Hushi Avenue, 34987 Haifa (IL). **NEEMAN, Ronen** [IL/IL]; 6 Hana Senesh Street, 53454 Givataim (IL).
- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, 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, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

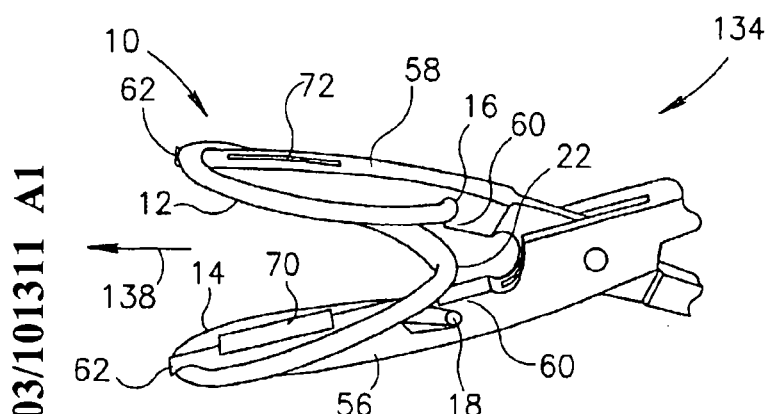
Published:

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

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: SURGICAL CLIP APPLICATOR DEVICE



(57) Abstract: The present invention, discloses an anastomosis clip applicator device (134) for applying a surgical clip (12), formed at least partly of a shape memory alloy, to press together adjacent wall portions of adjacent hollow organ portions so as to effect anastomosis therebetween. The applicator device (134) includes: gripping apparatus for gripping a surgical clip (12), a release mechanism, associated with the gripping apparatus, and tissue cutting apparatus (124), operatively associated with the gripping apparatus. There is also apparatus for activating the gripping apparatus, the release mechanism and the cutting apparatus, so as to introduce and apply the surgical clip (12) into adjacent

hollow organ portions, such that the surgical clip (12) compresses together the adjacent walls of the hollow organ portions, and thereafter causes the cutting apparatus (124) to perforate the adjacent pressed together organ walls to provide patency through the joined portions of the hollow organ.

WO 03/101311 A1



162162



ACTION