

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
12 July 2001 (12.07.2001)

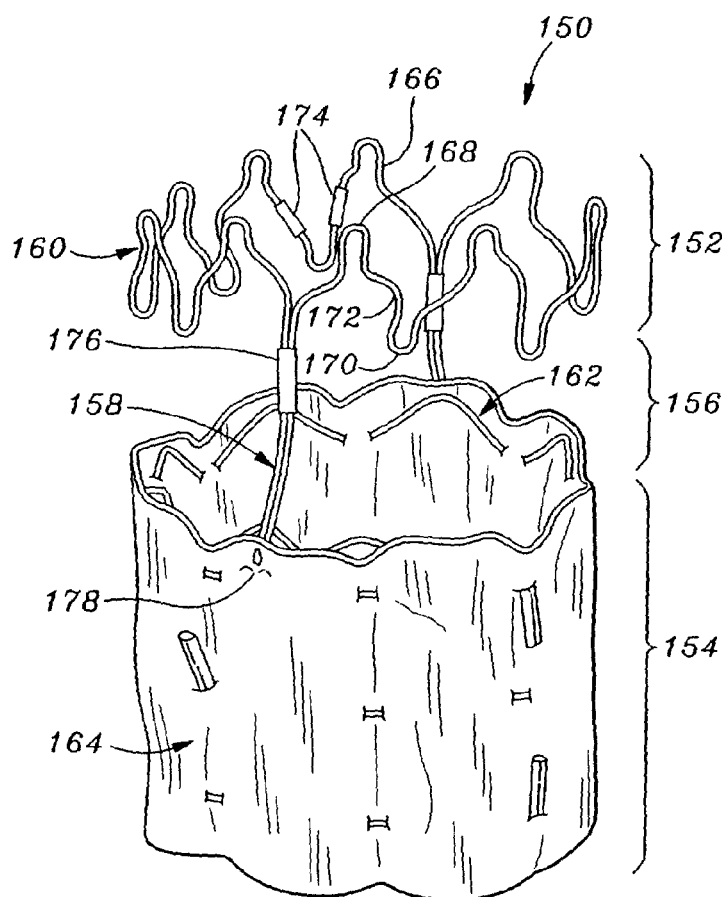
PCT

(10) International Publication Number
WO 01/49211 A1

- (51) International Patent Classification⁷: **A61F 2/06**
- (21) International Application Number: **PCT/US00/01712**
- (22) International Filing Date: 19 January 2000 (19.01.2000)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
09/473,618 29 December 1999 (29.12.1999) US
- (63) Related by continuation (CON) or continuation-in-part (CIP) to earlier application:
US 09/473,618 (CON)
Filed on 29 December 1999 (29.12.1999)
- (71) Applicant (for all designated States except US): **EDWARDS LIFESCIENCES CORPORATION** [US/US]; One Edwards Way, Irvine, CA 92614 (US).
- (72) Inventor; and
(75) Inventor/Applicant (for US only): **DEHDASHTIAN, Mark** [US/US]; 1696 Palau Place, Costa Mesa, CA 92626 (US).
- (74) Agents: **CONDINO, Debra, D.** et al.; Edwards Life-sciences LLC, One Edwards Way, Irvine, CA 92614 (US).
- (81) Designated States (national): AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, 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, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.

[Continued on next page]

(54) Title: VASCULAR GRAFTS AND METHODS FOR BRIDGING A VESSEL SIDE BRANCH



(57) Abstract: A vascular graft (20) for a primary vessel (22) adapted to bridge a side branch (24). The graft is especially useful for providing a support tube for a primary graft in the primary vessel on one side of the side branch. The graft includes first and second tubular sections separated by a gap. A bridging member (54) connects the first (50) and second tubular sections (52) across the gap and may include a relatively rigid strut to prohibit relative axial movement of the two sections. There may be one, two or more bridging members to define one, two or more apertures through which blood can flow from within the graft through to the vessel side branch. The graft may include a flexible, desirably fabric, body supported by a wireform stent that is either self- or balloon-expandable. The graft may be deployed within the abdominal aorta on both sides of the renal arteries and have two apertures for blood to flow from the aorta to the renals. The infra-renal section provides a uniform uniform tubular anchoring surface for a trunk portion of a bifurcated graft used to repair an abdominal aneurysm extending to the iliac arteries.



(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

Published:

— *With international search report.*

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.