

(12) International Application Status Report

Received at International Bureau: 11 July 2016 (11.07.2016)

Information valid as of: 04 August 2016 (04.08.2016)

Report generated on: 18 January 2020 (18.01.2020)

(10) Publication number:

WO2017/004035

(43) Publication date:

05 January 2017 (05.01.2017)

(26) Publication language:

English (EN)

(21) Application Number:

PCT/US2016/039808

(22) Filing Date:

28 June 2016 (28.06.2016)

(25) Filing language:

English (EN)

(31) Priority number(s):

62/188,201 (US)

(31) Priority date(s):

02 July 2015 (02.07.2015)

(31) Priority status:

Priority document received (in compliance with PCT Rule 17.1)

15/193,794 (US)

27 June 2016 (27.06.2016)

Priority document received (in compliance with PCT Rule 17.1)

(51) International Patent Classification:

A61F 2/24 (2006.01)

(71) Applicant(s):

BOSTON SCIENTIFIC SCIMED, INC. [US/US]; One SciMed Place Maple Grove, Minnesota 55311 (US) *(for all designated states)*

(72) Inventor(s):

EPPIHIMER, Michael; 118 Brandywine Road Franklin, Massachusetts 02038 (US)

EDELMAN, Peter G.; 9385 Tewsbury Gate Maple Grove, Minnesota 55311 (US)

(74) Agent(s):

DEFFNER, Mark E.; Pauly, Devries Smith & Deffner. L.L.C. TCF Tower, Suite 900 121 South 8th Street Minneapolis, Minnesota 55402 (US)

(54) Title (EN): PROSTHETIC HEART VALVE COMPOSED OF COMPOSITE FIBERS

(54) Title (FR): VALVE CARDIAQUE PROTHÉTIQUE COMPOSÉE DE FIBRES COMPOSITES

(57) Abstract:

(EN): A prosthetic heart leaflet includes a fiber-reinforced structure including a plurality of composite fibers. Each composite fiber includes a core fiber and a sheathing fiber disposed about the core fiber, wherein the core fiber or the sheathing fiber has a curvilinear shape.

(FR): L'invention concerne une valvule cardiaque prothétique comprenant une structure renforcée par fibres comportant une pluralité de fibres composites. Chaque fibre composite comprend une fibre centrale et une fibre de gainage disposée autour de la fibre centrale, la fibre centrale ou la fibre de gainage présentant une forme curviligne.

International search report:

Received at International Bureau: 26 September 2016 (26.09.2016) [EP]

International Report on Patentability (IPRP) Chapter II of the PCT:

Not available

(81) Designated States:

AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ, CA, CH, CL, 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, IR, IS, JP, KE, KG, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PA, PE, PG, PH,

PL, PT, QA, RO, RS, RU, RW, SA, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW

European Patent Office (EPO) : AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR

African Intellectual Property Organization (OAPI) : BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, KM, ML, MR, NE, SN, TD, TG

African Regional Intellectual Property Organization (ARIPO) : BW, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, ST, SZ, TZ, UG, ZM, ZW

Eurasian Patent Organization (EAPO) : AM, AZ, BY, KG, KZ, RU, TJ, TM

Declarations:

Declaration made as applicant's entitlement, as at the international filing date, to apply for and be granted a patent (Rules 4.17(ii) and 51bis.1(a)(ii)), in a case where the declaration under Rule 4.17(iv) is not appropriate

Declaration made as applicant's entitlement, as at the international filing date, to claim the priority of the earlier application, where the applicant is not the applicant who filed the earlier application or where the applicant's name has changed since the filing of the earlier application (Rules 4.17(iii) and 51bis.1(a)(iii))