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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
6 December 2012 (06.12.2012)

WIPO | PCT

(10) International Publication Number
WO 2012/166554 A3

(51) International Patent Classification:
A61F 2/24 (2006.01)

(21) International Application Number:
PCT/US2012/039450

(22) International Filing Date:
24 May 2012 (24.05.2012)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

61/490,873	27 May 2011 (27.05.2011)	US
61/490,693	27 May 2011 (27.05.2011)	US
61/491,723	31 May 2011 (31.05.2011)	US
61/650,911	23 May 2012 (23.05.2012)	US

(71) Applicant *(for all designated States except US)*: **CORMATRIX CARDIOVASCULAR, INC.** [US/US]; 1100 Old Ellis Road, Roswell, GA 30076 (US).

(72) Inventor; and

(75) Inventor/Applicant *(for US only)*: **MATHENY, Robert, G.** [US/US]; 4370 River Bottom Drive, Norcross, GA 30092 (US).

(74) Agent: **FRANCIS, Ralph, C.**; Francis Law Group, 512 Westline Drive, Suite 301, Alameda, CA 94501 (US).

(81) Designated States *(unless otherwise indicated, for every kind of national protection available)*: AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, 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, 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, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, 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.

(84) Designated States *(unless otherwise indicated, for every kind of regional protection available)*: ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ, TM), European (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), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declarations under Rule 4.17:

— *as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))*

[Continued on next page]

(54) Title: EXTRACELLULAR MATRIX MATERIAL CONDUITS AND METHODS OF MAKING AND USING SAME

(57) Abstract: Extracellular matrix (ECM) material conduits are disclosed. Methods for regenerating atrioventricular valves to replace defective atrioventricular valves within a heart of a subject using the ECM material conduits are also disclosed. Methods of sterilizing and decellularizing an ECM material are also disclosed.

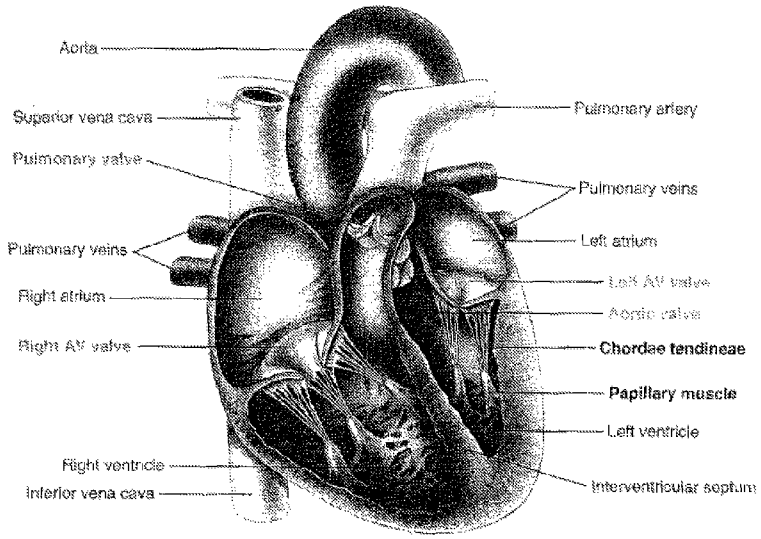

FIGURE 1

WO 2012/166554 A3

WO 2012/166554 A3

Published:

— *with international search report (Art. 21(3))*

(88) Date of publication of the international search report:
8 May 2014

(15) Information about Correction:

Previous Correction:
see Notice of 23 January 2014