

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
30 March 2023 (30.03.2023)



(10) International Publication Number
WO 2023/048648 A3

(51) International Patent Classification:

A61F 2/00 (2006.01) A61F 2/24 (2006.01)

(21) International Application Number:

PCT/SG2022/050686

(22) International Filing Date:

22 September 2022 (22.09.2022)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

10202110635Q 24 September 2021 (24.09.2021) SG

(71) Applicants: NATIONAL UNIVERSITY OF SINGAPORE [SG/SG]; 21 Lower Kent Ridge Road, Singapore 119077 (SG). NATIONAL UNIVERSITY HOSPITAL (SINGAPORE) PTE LTD [SG/SG]; 1E Kent Ridge Road, #13-00, Singapore 119228 (SG).

(72) Inventor: KOFIDIS, Theodoros; c/o National University of Singapore, Yong Loo Lin School of Medicine / Department of Surgery, 21 Lower Kent Ridge Road, Singapore 119077 (SG).

(74) Agent: SOROKER AGMON NORDMAN PTE. LTD.; 111 Somerset Road, #09-14, Singapore 238164 (SG).

(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, BN, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CV, CZ, DE, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IQ, IR, IS, IT, JM, JO, JP, KE, KG, KH, KN, KP, KR, KW, 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, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, WS, 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, ST, 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, KM, ML, MR, NE, SN, TD, TG).

(54) Title: A HEART VALVE HOLDER AND METHOD OF USE THEREOF

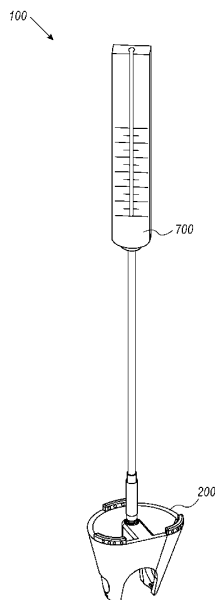


FIG. 1

(57) Abstract: A heart valve holder for holding a prosthetic heart valve and a method for implanting the prosthetic heart valve are disclosed, wherein the heart valve holder comprises a hollow structure having a cross-section that mimics a shape of an annulus of the prosthetic heart valve, the hollow structure comprising an upper surface; a platform extending from at least 5 one wall of the hollow structure, the platform comprising a first connector element; and at least one anchoring element formed at the upper surface of the hollow structure, the at least one anchoring element comprising at least one anchoring hole for suturing of the prosthetic heart valve to the heart valve holder.

WO 2023/048648 A3

[Continued on next page]

Published:

- *with international search report (Art. 21(3))*
- *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))*

(88) Date of publication of the international search report:
08 June 2023 (08.06.2023)