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On behalf of **Edwards Lifesciences Corporation and Edwards Lifesciences LLC**
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UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

EDWARDS LIFESCIENCES CORPORATION AND EDWARDS LIFESCIENCES LLC
Petitioners,

v.

AORTIC INNOVATIONS, LLC
Patent Owner.

IPR2023-01151
Patent No. 11,337,834

PETITIONERS' UPDATED EXHIBIT LIST

Exhibit No.	Description
1001	U.S. Patent No. 11,337,834 B2 ("**'834 patent**") - *CORRECTED*
1002	Excerpts from the prosecution history of the '834 patent
1003	Declaration of Nigel P. Buller, M.D.
1004	Curriculum Vitae of Nigel P. Buller, M.D.
1005	U.S. Provisional Application No. 61/567,458
1006	U.S. Provisional Application No. 61/723,446
1007	Walther, Thomas, et al., *Trans-catheter valve-in-valve implantation: in vitro hydrodynamic performance of SAPIEN + cloth trans-catheter heart valve in the Carpentier-Edwards Perimount valves,* 40 Euro. J. of Cardio-thoracic Surgery 1120-1126 (April 2011) ("Walther")
1008	U.S. Patent No. 9,393,110 B2 to Levi et al. ("**Levi**")
1009	Reserved
1010	U.S. Patent No. 7,510,575 B2 to Spenser et al. ("**Spenser**")
1011	WO 2006/005015 A2 to Spenser et al. ("**Spenser II**")
1012	Reserved
1013	U.S. Patent No. 3,365,728 to Edwards et al.
1014	U.S. Patent No. 5,411,552 to Andersen et al.
1015	U.S. Patent Pub. No. 2003/0153974 A1 to Spenser et al.
1016	Reserved
1017	Cheung, Anson, et al., *Transapical Transcatheter Mitral Valve-in-Valve Implantation in a Human,* Annals of Thoracic Surgery, 87:e 18-20 (2009).

Exhibit No.	Description
1018	PCT Publication No. WO 98/29057 to Letac et al.
1019	U.S. Patent No. 6,893,460 B2 to Spenser et al.
1020-1021	Reserved
1022	Smith, Craig R., et al., *Transcatheter versus Surgical Aortic-Valve Replacement in High-Risk Patients,* 364 N. Engl. J. Med. 23, 2187-2198 (June 9, 2011)
1023	Webb, John G. and Binder, Ronald K., *Transcatheter aortic valve implantation: The evolution of prostheses, delivery systems and approaches,* Archives of Cardiovascular Disease 105, 153-159 (March 16, 2012)
1024	Reserved
1025	Cribier, Alain, et al., *Percutaneous Transcatheter Implantation of an Aortic Valve Prosthesis for Calcific Aortic Stenosis,* 1006 Circulation 3006-3008 (December 10, 2002)
1026	U.S. Patent No. 7,393,360 B2 to Spenser et al.
1027-1029	Reserved
1030	Cribier, Alain, et al., *Early Experience with Percutaneous Transcatheter Implantation of Heart Valve Prosthesis for the Treatment of End-Stage Inoperable Patients with Calcific Aortic Stenosis,* 43 J. of the Am. College of Cardiology 4, 698-703 (February 18, 2004)
1031-1033	Reserved

Exhibit No.	Description
1034	Andersen, Henning, et al., *Transluminal implantation of artificial heart valves. Description of a new expandable aortic valve and initial results with implantation by catheter technique in closed chest pigs*, European Heart Journal, 13:704-08 (1992)
1035	Reserved
1036	Nietlispach, Fabian, et al., *Current Balloon-Expandable Transcatheter Heart Valve and Delivery Systems,* Catheterization and Cardiovascular Interventions, 75:295-300 (2010)
1037	U.S. Patent Application Publication No. US 2009/0281619 A1 to Le et al.
1038-1044	Reserved
1045	U.S. Patent No. 7,585,321 B2 to Cribier et al.
1046	Preliminary Amendment for Patent Application No. 17/096,253 Submitted November 30, 2020
1047	Piazza, Nicolo, et al., *Anatomy of the Aortic Valvar Complex and Its Implications for Transcatheter Implantation of the Aortic Valve*, Cir Cardiovascular Intervention 1:74-81 (2008).
1048	Reserved
1049	Excerpts from the prosecution history of U.S. Patent No. 10,792,172
1050	*Aortic Innovations LLC v. Edwards Lifesciences Corp.*, Case No. 1:21-cv-01377-RGA, Dkt. 1, Complaint (Sept. 28, 2021)
1051	U.S. Patent No. 6,730,118 B2 to Spenser et al.
1052	PCT Publication No. WO 2006/124649 A3 to Nguyen et al.

Exhibit No.	Description
1053	U.S. Patent Pub. No. 2002/0052649 A1 to Greenhalgh
1054	U.S. Patent Pub. No. 2011/0098802 to Braido et al.
1055-1056	Reserved
1057	U.S. Patent No. 7, 524,331 B2 to Birdsall ("Birdsall")
1058	Reserved
1059-1071	Reserved
1072	Deposition Transcript of Stephen Brecker from August 30, 2022
1073	Deposition Transcript of Stephen Brecker from August 31, 2022
1074	U.S. Patent No. 7,921,678 to Norris et al. ("Norris")
1075-1105	Reserved
1106	Estridge, Trudy & Dale Feldman, *Quantification of Vascular Ingrowth into Dacron® Velour*, 6 J. Biomaterials Applications 157-169 (1991) ("Estridge")
1107	Hall, William C. et al., *Velour Fabrics Applied to Medicine*, 1 J. Biomed. Mater. Res. 179-196 (1967) ("Hall")
1108	Jonas, Richard A. et al., *Biological Sealants and Knitted Dacron: Porosity and Histological Comparisons of Vascular Graft Materials with and without Collagen and Fibrin Glue Pretreatments*, 41 Ann. Thorac. Surg. 657-663 (June 1986) ("Jonas")
1109	Ko, Frank K., *Fabrics*, Encyclopedia of Biomaterials and Biomedical Engineering 1043-1061 (2008) ("Ko")

Exhibit No.	Description
1110	Pourdeyhimi, B. & Text, C., *A Review of Structural and Material Properties of Vascular Grafts*, 2 J. Biomaterail App. 163-204 (1987) ("Pourdeyhimi")
1111	Scott, Steward M. et al., *A Collogen Coated Vascular Prosthesis*, 28 J. Cardiovascular Surg. 498-504 (1987) ("Scott")
1112	Stegmann, Th et al., *Clinical Experience with a New Collagen-coated Dacron Double-velour Prosthesis*, 34 Thorac. Cardiovasc. Surgeon 54-56 (1986) ("Stegmann")
1113-1115	Reserved
1116	U.S. Patent Pub. No. 2002/0151958 to Chuter ("**Chuter**")
1117	*Edwards Lifesciences Corp. v. Aortic Innovations, LLC*, IPR2021-01527, Final Written Decision ("'172 FWD")
1118	*Edwards Lifesciences Corp. v. Aortic Innovations, LLC*, IPR2021-01584, Final Written Decision ("'011 FWD")
1119	*Edwards Lifesciences Corp. v. Aortic Innovations, LLC*, IPR2022-00193, Final Written Decision ("'538 FWD")
1120	*Edwards Lifesciences Corp. v. Aortic Innovations, LLC*, IPR2022-00034, Final Written Decision ("'846 FWD")
1121	*Edwards Lifesciences Corp. v. Aortic Innovations, LLC*, IPR2022-00549, Institution Decision from ("'735 Institution Decision")
1122	*Aortic Innovations LLC v. Edwards Lifesciences Corp.*, Case No. 1-23-CV-00158 (JPM), Dkt. 13, Second Amended Complaint (Apr. 10, 2023)
1123	Aortic Innovations LLC's Disclosure of Asserted Claims and Infringement Contentions, C.A. No. 1-23--CV-00158 (JPM) ("PO Infringement Contentions")

Exhibit No.	Description
1124	*Edwards Lifesciences Corp. v. Aortic Innovations, LLC*, IPR2021-01584 Patent Owner's Preliminary Response ("'011 POPR")
1125	U.S. Pat. App. No. 17/469,391, January 4, 2022 Amendment
1126	U.S. Pat. No. 4,739,762
1127	U.S. Pat. No. 5,102,417
1128	Deposition Transcript of Dr. Nigel Buller from November 11, 2012
1129	C. C. Chu, *Understanding Implantable Textiles*, Advanced Textiles Source (May 21, 2018) ("Chu")
1130	"Distinct," Merriam Webster Online Dictionary, *available at* https://www.merriam-webster.com/dictionary/distinct
1131-1138	Reserved
1139	*Aortic Innovations LLC v. Edwards Lifesciences Corp.*, Case No. 1:21-cv-01377-RGA, Dat. 83, Plaintiff Aortic Innovations' Opening Claim Construction Brief (Nov. 21, 2021)

Respectfully submitted,

KNOBBE, MARTENS, OLSON & BEAR, LLP

Dated: July 11, 2023

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CERTIFICATE OF SERVICE

I hereby certify that a true and correct copy of the foregoing **PETITIONERS' UPDATED EXHIBIT LIST** and **EXHIBIT 1001 (Corrected)** are being served on July 11, 2023 via Federal Express overnight mail on counsel of record for U.S. Patent 11,337,834 as addressed below:

Justin Nifong
NK Patent Law
4101 Lake Boone Trail, Suite 218
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A courtesy copy of the foregoing is being served via email to usptomail@nkpatentlaw.com.

Dated: July 11, 2023

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