

UNITED STATES PATENT AND TRADEMARK OFFICE

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BEFORE THE PATENT TRIAL AND APPEAL BOARD

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MEDTRONIC, INC., AND MEDTRONIC VASCULAR, INC.  
Petitioners,

v.

TELEFLEX INNOVATIONS S.À.R.L.  
Patent Owner.

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Case No.: IPR2020-01342  
U.S. Patent No: 8,142,413

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**DECLARATION OF RICHARD A. HILLSTEAD, PH.D., FAHA**

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**EXHIBIT LIST**

<b>Exhibit</b>	<b>Description</b>
1407	U.S. Patent No. 7,736,355 (“Itou”)
1408	U.S. Patent No. 7,604,612 (“Ressemann”)
1409	U.S. Patent No. 5,439,445 (“Kontos”)
1410	<i>New Method to Increase a Backup Support of a 6 French Guiding Coronary Catheter</i> , Catheterization and Cardiovascular Interventions 63: 452-456 (2004) (“Takahashi”)
1415	Excerpt from Grossman’s Cardiac Catheterization, Angiography, and Intervention (6th edition) (2000) (chapters 1, 4, 11, 23-25).
1418	U.S. Patent No. 5,891,056 (“Ramzipoor”)
1424	Boston Scientific, Summary of Safety and Effectiveness Data, TAXUS™ Express <sup>2</sup> ™ Drug-Eluting Coronary Stent System (March 4, 2004)
1425	U.S. Publication Application No. 2005/0015073 (“Kataishi”)
1432	<i>The sliding rail system (monorail): description of a new technique for intravascular instrumentation and its application to coronary angioplasty</i> , Z. Kardio. 76:Supp. 6, 119-122 (1987) (“Bonzel”)
1433	U.S. Publication Application No. 2004/0236215 (Mihara)
1435	U.S. Publication Application No. 2004/0010280 (“Adams ’280”)
1443	Curriculum Vitae of Dr. Richard A. Hillstead, Ph.D.
1446	U.S. Patent No. 6,042,578 (“Dinh”)
1447	WO 97/37713 (“Truckai”)
1449	Medtronic Launcher product literature
1450	U.S. Patent No. 5,980,486 (“Enger”)
1451	U.S. Patent No. 5,911,715 (“Berg”)
1454	U.S. Patent No. 5,120,323 (“Shockey”)
1461	U.S. Patent No. 5,690,613 (“Verbeek”)
1462	Iserson, J.-F.-B. <i>Charrière: The Man Behind the “French” Gauge</i> , The Journal of Emergency Medicine. Vol. 5 pp 545-548 (1987)
1497	Excerpt of Patrick W. Serruys, <i>Handbook of Coronary Stents</i> (4th Edition) (2002)

## I. INTRODUCTION

1. I have been retained by Robins Kaplan LLP on behalf of Medtronic, Inc. and Medtronic Vascular, Inc. (“Medtronic”) as an independent expert to provide my opinion on the disclosures of certain patents.

2. I am informed that Medtronic intends to use my opinion in support of its petition to the Patent Trial and Appeal Board (“PTAB”) for *Inter Partes* Review (“IPR”) of U.S. Patent No. 8,142,413.

3. I make this declaration based on my personal education, experience, and knowledge in the field of medical device product development.

## II. QUALIFICATIONS

4. My curriculum vitae is submitted as Ex-1443.

5. I have been actively involved in the design and development of medical devices for more than thirty years. I held several progressive, Product Research and Development positions with Cordis Corporation (J&J) from 1987 to 1993 where I was responsible for the design and development of numerous vascular intervention devices including stents and angioplasty balloon catheters. I pioneered device development in the Cordis Coronary Stent program as a Senior Corporate Research Engineer. During my tenure at Cordis, I also held the position of Senior Engineer, Custom Products, where I was responsible for designing a wide variety of customized catheters and devices for individual physicians.

6. From 1993 until 1999, I directed new technology development for Georgia-based Novoste Corporation, primarily focusing on intravascular brachytherapy and catheter based delivery systems for the treatment of coronary restenosis following angioplasty and stenting.

7. In 1999, I became a founding member of The Innovation Factory, a private medical device incubator in Duluth, GA. At The Innovation Factory, I served as Chief Science Officer and was primarily responsible for early clinical investigations, and overall R&D in a wide variety of life science ventures.

8. I was a principal partner and founding member in Accuitive Medical Ventures I and II (2004 – 2008). Accuitive Medical Ventures is a \$225M venture capital fund focused entirely on growing early stage medical device companies into attractive candidates for acquisition. In 2008, I joined another medical device venture fund, Georgia Venture Partners (GVP), where I remain a partner today.

9. I have managed numerous, diverse, multi-disciplinary development teams from product concept through clinical approval to sales release. I am a frequent speaker on the importance of innovation and intellectual property creation and capture as it relates to the entrepreneurial process in the medical device industry at conferences and scientific sessions.

10. Currently, I am the CEO of Richard A. Hillstead Inc., a medical device development and entrepreneurship consulting firm located near Atlanta,

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