

UNITED STATES PATENT AND TRADEMARK OFFICE

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BEFORE THE PATENT TRIAL AND APPEAL BOARD

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MEDTRONIC, INC., MEDTRONIC VASCULAR, INC.,  
and MEDTRONIC COREVALVE, LLC  
Petitioner

v.

TROY R. NORRED, M.D.  
Patent Owner

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Cases IPR2014-00110  
Patent 6,482,228

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DECLARATION OF TROY R. NORRED, M.D.

**NORRED EXHIBIT 2093 - Page 1**  
**Medtronic, Inc., Medtronic Vascular, Inc.,**  
**& Medtronic Corevalve, LLC**  
**v. Troy R. Norred, M.D.**

I, Troy R. Norred, M.D., declare as follows:

1. I am a citizen of the United States and a resident of Ada, Oklahoma. My post office address is P.O. Box 1780, Ada, Oklahoma 74821.

2. I am married and have four children, ages 16 through 25.

3. I currently am in private practice in Ada, Oklahoma as a board certified interventional cardiologist. As part of my practice, I see and treat patients suffering from cardiovascular illness. As part of the treatment I provide to these patients, I place vascular stents within the vascular tree of the body, in areas ranging from the heart to the abdomen and upper and lower extremities as well as cerebral-vascular vessels. I also place pacemakers and defibrillators into patients requiring them. I have experience with structural heart disease, including the diagnosis, management and treatment of valvular and congenital heart disease.

4. I attended college at East Central Oklahoma from 1986 through 1990, earning a Bachelor of Science in Biology. I attended medical school at the University of Oklahoma College of Medicine from 1990 through 1995, graduating with a Doctor of Medicine. I served my internship and then residency in internal medicine at the University of Oklahoma Health Science Center from 1995 through 1998, my cardiology fellowship at the University of Missouri from 1998 through August 2001, and my interventional cardiology fellowship at Louisiana State University New Orleans from August 2001 through August 2002.

5. I am the inventor of the replacement aortic valve described in United States Patent No. 6,482,228 (the “‘228 patent”) issued on November 19, 2002.

**Date of Invention**

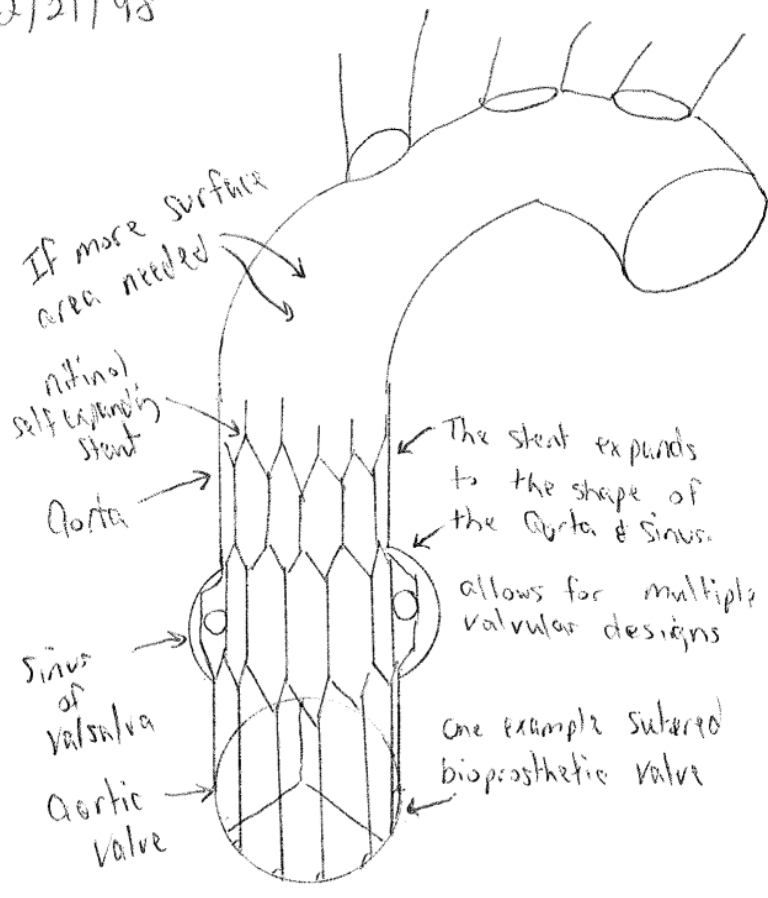
6. I completed this invention in the United States no later than December 21, 1998. On that date, to the best of my artistic abilities, I prepared a sketch of the prosthetic aortic valve described in the ‘228 Patent and signed the sketch before a Notary Public to confirm its authenticity. A true and correct copy of the notarized sketch is filed as Exhibit 2003.

7. Exhibit 2003 depicts each limitation set forth in claims 16 and 20 of the ‘228 Patent. This is demonstrated as follows (the handwritten notes were part of the original drawing; the typewritten annotations were added for my declaration):

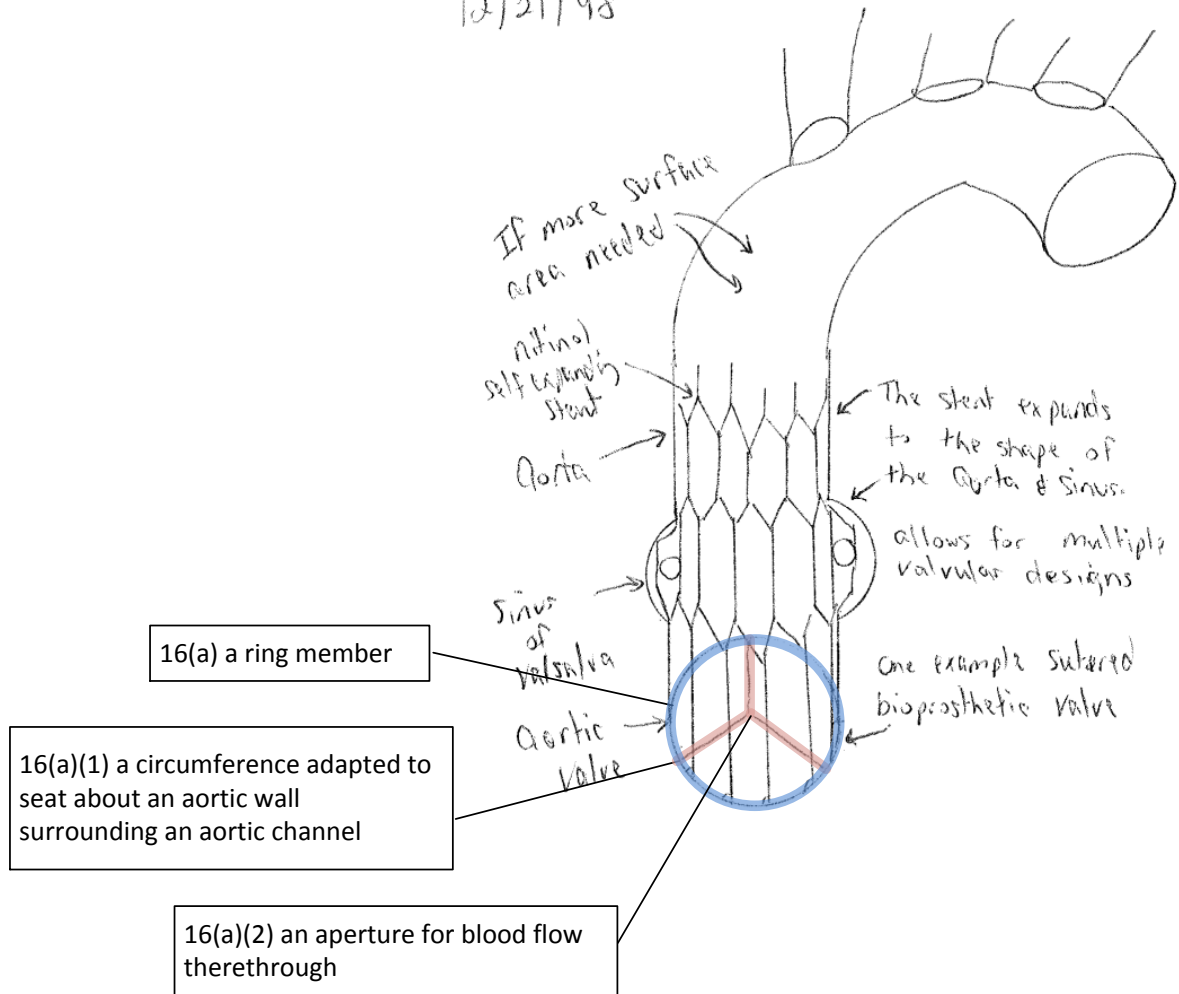
**Claim 16**

16. An aortic valve for regulating a blood flow through an aortic channel surrounded by an aortic wall upon placement therein

12/21/98



12/21/98



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