

UNITED STATES PATENT AND TRADEMARK OFFICE  
BEFORE THE PATENT TRIAL AND APPEAL BOARD

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

IPR2014-00111

IPR2014-00395

Patent 6,482,228

PETITIONER'S DEMONSTRATIVE  
EXHIBITS

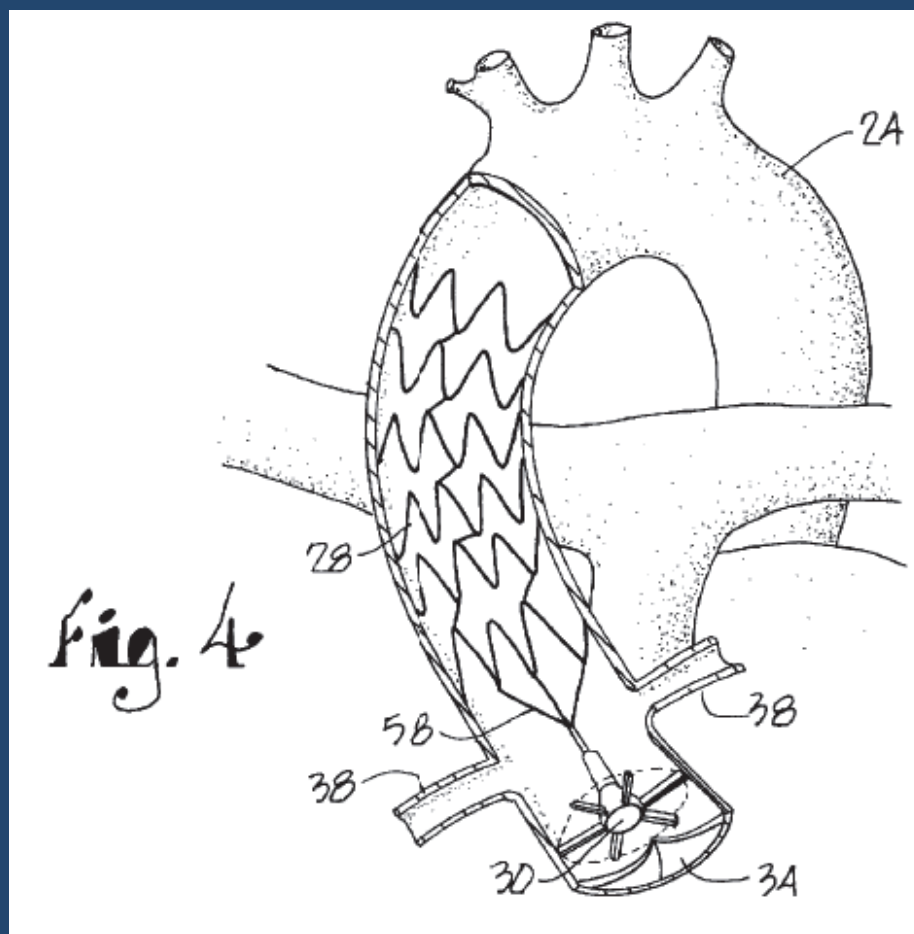
# Overview of Instituted Grounds

- IPR2014-00110
  - Claims 16-19 are anticipated by 6,440,164 to DiMatteo
  - Claims 16-18 are anticipated by 4,030,142 to Wolfe
- IPR2014-00111
  - Claims 20-24 are anticipated by 6,454,799 to Schreck
  - Claims 22 and 23 are obvious over 6,454,799 to Schreck in view of 6,139,575 to Shu
- IPR2014-00395
  - Claims 16 and 19-24 are anticipated by 5,957,949 to Leonhardt
  - Claims 16 and 19-24 are anticipated by 6,458,153 to Bailey

# Background on the '228 Patent

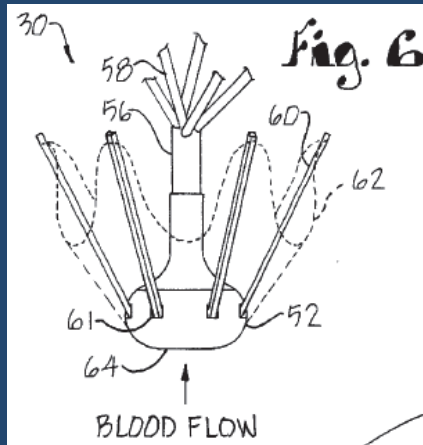
# The '228 Patent is directed to a "Percutaneous Aortic Valve Replacement"

(54) PERCUTANEOUS AORTIC VALVE REPLACEMENT

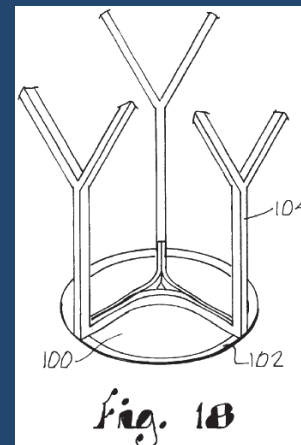


# The '228 Patent discloses four valve embodiments

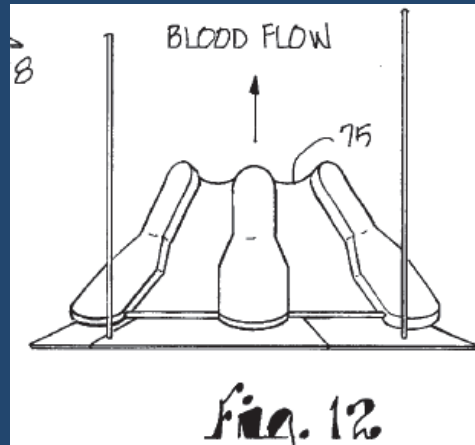
Umbrella Valve  
(4:5-52)



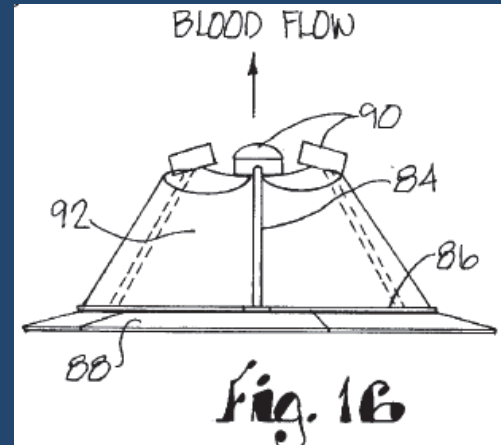
Cadaver/Porcine Valve  
(5:63-6:8)



Conical Valve  
(4:53-5:32)



Trihedral Valve  
(5:33-62)



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