The '228 Patent

Another object of the present invention as aforesaid is to provide an aortic valve which may be anchored in the ascending aorta by a stent system.

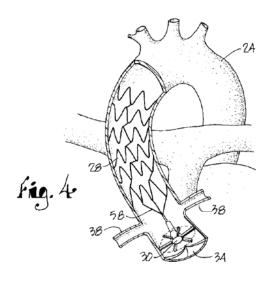
1:29-31

Valve 66 is anchored along the root of the aortic valve with connecting rods 80 which are connected to the <u>ascending</u> aortic stents 28 (see FIG. 4). Valve 66 is placed such that

5:22-24

4) to reduce peri-valvular leaks. Valve 100 is anchored along the root of the aortic valve with connecting rods 104 which are connected to the ascending aortic stents 28 shown in FIG. 4. Valve 100 is placed such that rods 104 are positioned

6:4-7



Excernted from Ex. 1001 (IPR2014-00111)



The Declaration of Dr. Timothy Catchings

- 28. The prosthetic aortic valve invented by Dr. Norred has four characteristics that a person of ordinary skill in the art would consider functionally significant.
- 31. Third, the prosthetic aortic valve invented by Dr. Norred contains a stent structure that extends into the ascending aorta. This extended stent structure allows for the circumferential dispersion of force, mimicking the manner in which the native valve disperses force through the leaflets, commissures and sinuses acting in concert with one another. This is important because it reduces the stress and strain on the leaflets, and contributes toward the longevity of the valve. In addition, this extended stent structure makes it significantly easier to place and correctly align the prosthetic valve.
 - 36. I would understand the term "means for maintaining" as used in claim 19 to mean the interconnected rods that form the stent system that extends into the ascending aorta. This is consistent with the specification. The specification provides that stent system 28 is made up of a small, slotted stainless steel tube or series of interconnected rods. *Norred*, 2:60-62. The stent system 28 is depicted in its entirety in Fig. 5. The inflow region of the stent system is depicted in Fig. 18. Rods 104 are shown in Fig. 18 as an integrated part of the stent system 28. *Norred*, 6:4-7.

Excernted from Ex. 2195 (IPR2014-00111)

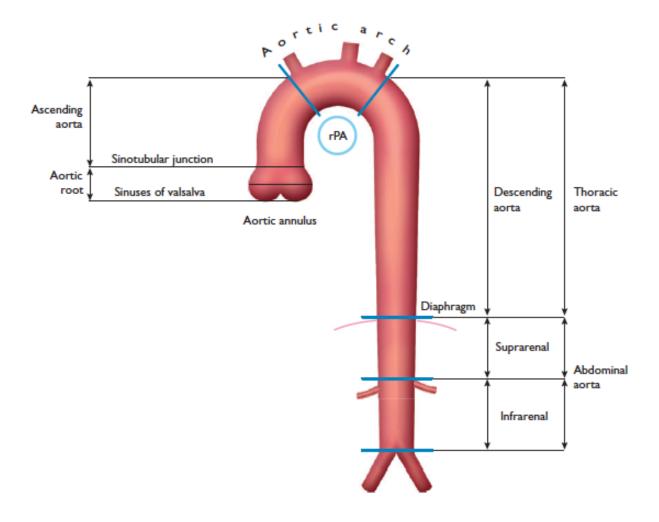


European Heart Journal Advance Access published August 29, 2014



ESC GUIDELINES

2014 ESC Guidelines on the diagnosis and treatment of aortic diseases

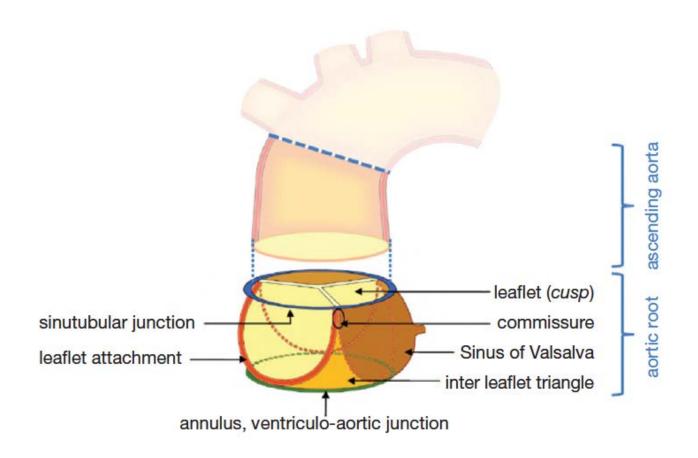


Excerpted from Ex. 2234 (IPR2014-00111)



Anatomy of the aortic root: implications for valve-sparing surgery

Efstratios I. Charitos, Hans-Hinrich Sievers



Excerpted from Ex. 2224 (IPR2014-00111), cited by Alexander Hill, PH.D. in Ex. 1026, ¶ 35 (IPR2014-



Chapter 2 The Anatomy and Function of the Semilunar Valves

Michael G. Bateman, Jason L. Quill, Alexander J. Hill, and Paul A. Iaizzo

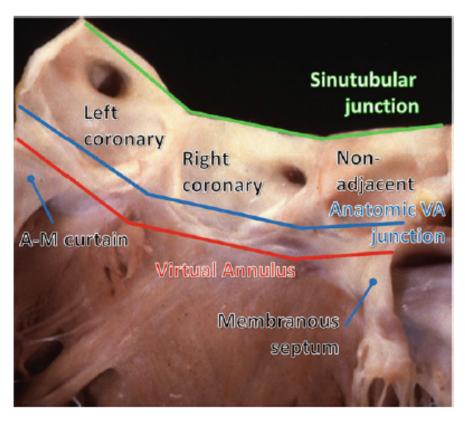


Fig. 2.9 The aortic leaflets have been removed from this human aortic root specimen; one can then observe the locations of the three defined aortic rings, i.e., relative to the crown-like hinges of the leaflets. A-M=aortic-mitral, VA=ventriculoarterial [3]. Image was modified from an original figure provided by Professor Robert H. Anderson; Professor Anderson retains the intellectual copyright of the original image

apposition, between the aortic valve leaflets [11]. Hence the sinutubular junction dictates the transition from the aortic root into the ascending aorta. The semilunar

Excerpted from Ex. 2224 p. 12 (IPR2014-00111)



DOCKET

Explore Litigation Insights



Docket Alarm provides insights to develop a more informed litigation strategy and the peace of mind of knowing you're on top of things.

Real-Time Litigation Alerts



Keep your litigation team up-to-date with **real-time** alerts and advanced team management tools built for the enterprise, all while greatly reducing PACER spend.

Our comprehensive service means we can handle Federal, State, and Administrative courts across the country.

Advanced Docket Research



With over 230 million records, Docket Alarm's cloud-native docket research platform finds what other services can't. Coverage includes Federal, State, plus PTAB, TTAB, ITC and NLRB decisions, all in one place.

Identify arguments that have been successful in the past with full text, pinpoint searching. Link to case law cited within any court document via Fastcase.

Analytics At Your Fingertips



Learn what happened the last time a particular judge, opposing counsel or company faced cases similar to yours.

Advanced out-of-the-box PTAB and TTAB analytics are always at your fingertips.

API

Docket Alarm offers a powerful API (application programming interface) to developers that want to integrate case filings into their apps.

LAW FIRMS

Build custom dashboards for your attorneys and clients with live data direct from the court.

Automate many repetitive legal tasks like conflict checks, document management, and marketing.

FINANCIAL INSTITUTIONS

Litigation and bankruptcy checks for companies and debtors.

E-DISCOVERY AND LEGAL VENDORS

Sync your system to PACER to automate legal marketing.

