US005634797A

United States Patent [19]

Montgomery

[11] Patent Number: 5,634,797

[45] Date of Patent: Jun. 3, 1997

[54] **HEART DEFECT TEACHING AID**

[76] Inventor: **Mary B. Montgomery**, 7 Hampton Dr., Warrenville, S.C. 29851

[21] Appl. No.: **435,458**

[22] Filed: **May 5, 1995**

[51] **Int. Cl.**[6] **G09B 23/30**

[52] **U.S. Cl.** **434/268**; 434/272

[58] **Field of Search** 434/262, 265, 434/267, 268, 272

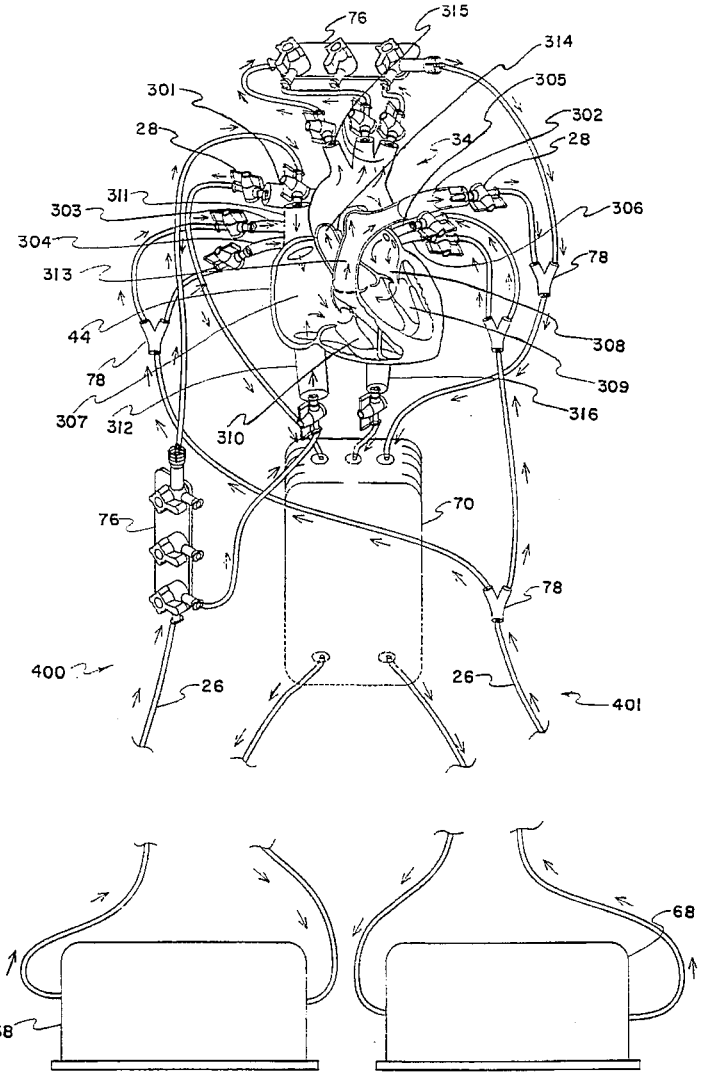
[56] **References Cited**

U.S. PATENT DOCUMENTS

3,009,267	11/1961	Bezark	434/272
3,562,925	2/1971	Baermann et al.	434/265
3,568,333	3/1971	Clark	434/265
3,688,008	8/1972	Krieger, Sr.	434/268
3,704,528	12/1972	Lewis	434/268
3,748,366	7/1973	Rader et al.	434/272
3,855,714	12/1974	Block .	
4,288,222	9/1981	Kling	434/272
4,323,350	4/1982	Bowden, Jr. .	
4,601,668	7/1986	Sirota .	
4,768,960	9/1988	Pan .	
4,773,865	9/1988	Baldwin	434/268
5,197,885	3/1993	Friedel .	
5,356,295	10/1994	Grosz	434/272
5,411,437	5/1995	Weber et al.	434/272

Primary Examiner—Paul J. Hirsch
Attorney, Agent, or Firm—Richard C. Litman

[57] **ABSTRACT**

A teaching aid comprises a doll with a realistic, replaceable heart model. The heart model is attached to a pump unit that provides realistic flow of sonographically partially opaque fluid through the heart. The heart model may be selected from a variety of heart models, such as a normal heart or one of numerous congenitally diseased hearts. By using sonographic analysis of the doll, a student of heart diseases or a student of sonography may experience a realistic simulation of sonographic images of actual heart defects.

9 Claims, 31 Drawing Sheets