



US00D720071S

(12) **United States Design Patent**  
**Robie et al.**

(10) **Patent No.:** **US D720,071 S**

(45) **Date of Patent:** **\*\* Dec. 23, 2014**

(54) **VERTEBRAL IMPLANT**

(76) Inventors: **Bruce H. Robie**, Glen Rock, NJ (US);  
**Eric Woodard**, Jamaica Plains, MA (US)

(\*\*) Term: **14 Years**

(21) Appl. No.: **29/363,109**

(22) Filed: **Jun. 4, 2010**

**Related U.S. Application Data**

(63) Continuation of application No. 11/656,766, filed on Jan. 23, 2007, now Pat. No. 7,749,272, which is a continuation of application No. 10/264,496, filed on Oct. 4, 2002, now abandoned.

(51) **LOC (10) Cl.** ..... **24-03**

(52) **U.S. Cl.**  
USPC ..... **D24/155**

(58) **Field of Classification Search**  
USPC ..... D24/155, 156, 133, 152, 154, 135, D24/144-146, 151; 606/194, 198, 90, 86 A; 623/23.54, 23.7, 1.15, 903, 17.11, 623/17.15, 17.16, 17.12; 604/1.02, 103.02  
See application file for complete search history.

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

3,685,059 A	8/1972	Bokros et al.	
3,707,006 A	12/1972	Bokros et al.	
3,971,134 A	7/1976	Bokros	
4,166,292 A	9/1979	Bokros	
4,863,477 A *	9/1989	Monson	623/17.12
5,071,437 A	12/1991	Steffee	
5,084,151 A	1/1992	Vallana	
5,133,845 A	7/1992	Vallana	
5,282,861 A	2/1994	Kaplan	
5,522,886 A	6/1996	Milo	
5,645,596 A *	7/1997	Kim et al.	623/17.16

5,645,605 A	7/1997	Klawitter	
5,683,464 A	11/1997	Wagner et al.	
5,716,400 A	2/1998	Davidson	
5,861,041 A	1/1999	Tienboon	
5,899,939 A	5/1999	Boyce et al.	
6,146,422 A *	11/2000	Lawson	623/17.16
6,162,252 A *	12/2000	Kuras et al.	623/17.16
6,183,517 B1	2/2001	Suddaby	
6,290,726 B1	9/2001	Pope et al.	
6,375,655 B1	4/2002	Zdeblick et al.	
6,410,087 B1	6/2002	Wilde et al.	
6,419,705 B1	7/2002	Erickson	
6,554,863 B2	4/2003	Paul et al.	
6,569,201 B2	5/2003	Moumene	
6,607,558 B2 *	8/2003	Kuras	623/17.16
6,626,945 B2	9/2003	Simon et al.	

(Continued)

**OTHER PUBLICATIONS**

Cook, Stephen D. et al., "Wear Characteristics of the Canine Acetabulum Against Different Femoral Prostheses," 1989 British Editorial Society of Bone and Joint Surgery, vol. 71-B, No. 2, Mar. 1989, pp. 189-197.

*Primary Examiner* — Ian Simmons

*Assistant Examiner* — Charles Hanson

(74) *Attorney, Agent, or Firm* — Seager, Tufte & Wickhem, LLC

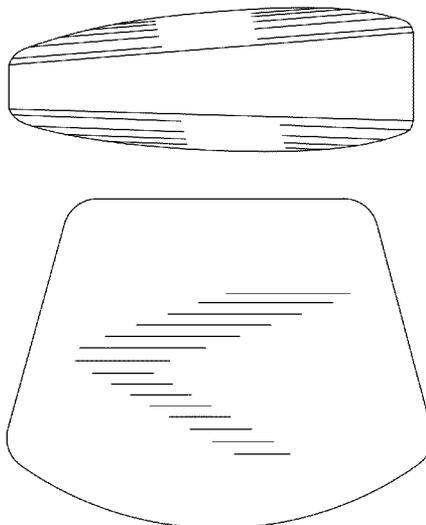
(57) **CLAIM**

An ornamental design for a vertebral implant, as shown and described.

**DESCRIPTION**

FIG. 1 is a side view of a vertebral implant of the present invention; FIG. 2 is a top view of the vertebral implant; and, FIG. 3 is a front view of the vertebral implant. Those portions shown in broken lines are for illustrative purposes only and form no part of the claimed design.

**1 Claim, 3 Drawing Sheets**



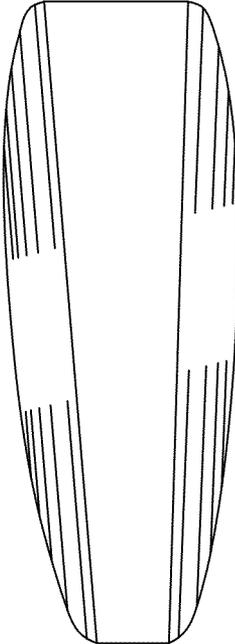
(56)

**References Cited**

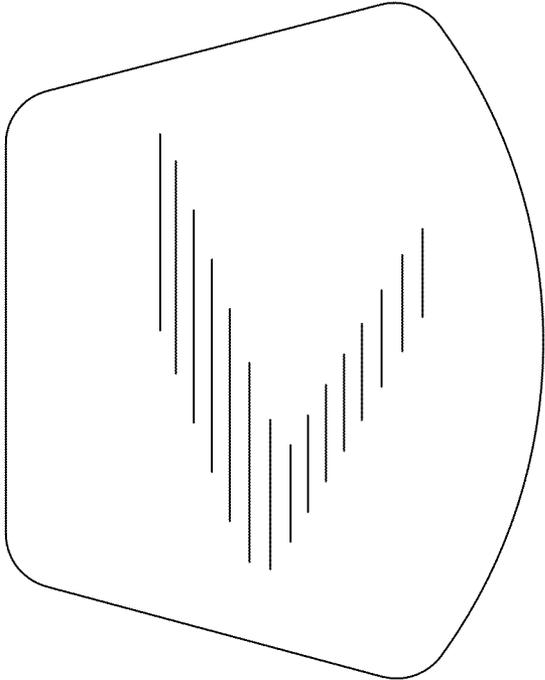
U.S. PATENT DOCUMENTS

6,669,732	B2 *	12/2003	Serhan et al. ....	623/17.16	7,250,060	B2	7/2007	Trieu	
6,723,097	B2 *	4/2004	Fraser et al. ....	606/86 A	7,588,600	B2 *	9/2009	Benzel et al. ....	623/17.15
6,726,718	B1	4/2004	Carlyle		7,749,272	B2 *	7/2010	Robie et al. ....	623/17.11
6,728,720	B1	4/2004	Lenzie		7,776,092	B2 *	8/2010	Lee et al. ....	623/17.15
7,169,181	B2 *	1/2007	Kuras .....	623/17.11	8,357,167	B2 *	1/2013	Errico et al. ....	606/90
					8,470,041	B2 *	6/2013	Ferree .....	623/17.11
					2003/0220691	A1	11/2003	Songer et al.	
					2007/0233272	A1	10/2007	Boyce et al.	

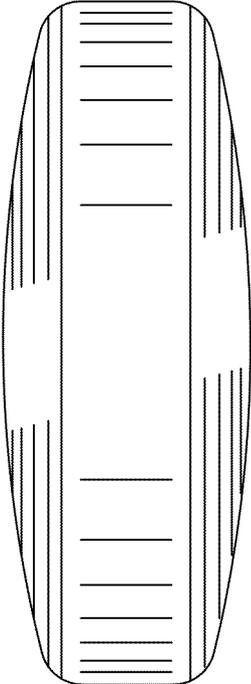
\* cited by examiner



*Figure 1*



*Figure 2*



*Figure 3*