



US00D740419S

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

(10) **Patent No.:** **US D740,419 S**

(45) **Date of Patent:** **\*\* Oct. 6, 2015**

(54) **SUTURE ANCHOR**  
(71) Applicant: **Dunamis, LLC**, Greenville, AL (US)  
(72) Inventors: **Prithviraj Chavan**, Greenville, AL (US); **Sonny Behan**, Lake Worth, FL (US)  
(73) Assignee: **Dunamis, LLC**, Greenville, AL (US)

5,584,836 A 12/1996 Ballintyn et al.  
5,601,557 A 2/1997 Hayhurst  
5,601,558 A 2/1997 Torrie et al.  
5,607,432 A 3/1997 Fucci  
5,615,770 A 4/1997 Applebaum et al.  
5,645,588 A 7/1997 Graf et al.  
5,662,658 A 9/1997 Wenstrom, Jr.  
5,667,513 A 9/1997 Torrie et al.

(Continued)

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

**FOREIGN PATENT DOCUMENTS**

EP 1 101 459 A2 5/2000

(21) Appl. No.: **29/498,912**

**OTHER PUBLICATIONS**

(22) Filed: **Aug. 8, 2014**

Arthrex, Inc., "Arthrex is Reaching New Heights in Rotator Cuff Repair," c2007, 8 pages.

(51) **LOC (10) Cl.** ..... **24-02**

(Continued)

(52) **U.S. Cl.**  
USPC ..... **D24/145**

(58) **Field of Classification Search**  
USPC ..... D24/145, 146, 138; D8/356, 360;  
D15/139; D12/215; D22/145; 606/232,  
606/60, 62, 67, 79, 82, 104, 144, 147  
CPC ..... A61B 2017/0409; A61B 2017/0414;  
A61B 2017/0424; A61B 2017/0462; A61B  
2017/0441; A61B 2017/0445; A61B  
2017/0446; A61B 2017/044; A61B 17/0401  
See application file for complete search history.

*Primary Examiner* — Wan Laymon  
*Assistant Examiner* — Mark Booker  
(74) *Attorney, Agent, or Firm* — Angela Holt; Bradley Arant  
Boult Cummings LLP

(57) **CLAIM**  
The ornamental design for a suture anchor, as shown and described.

(56) **References Cited**

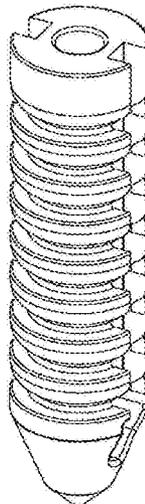
**DESCRIPTION**

**U.S. PATENT DOCUMENTS**

5,037,422 A 8/1991 Hayhurst et al.  
5,067,956 A 11/1991 Buford, III et al.  
5,100,417 A 3/1992 Cerier et al.  
D331,463 S \* 12/1992 Rosenberg et al. .... D24/145  
5,224,946 A 7/1993 Hayhurst et al.  
5,306,301 A 4/1994 Graf et al.  
5,380,334 A 1/1995 Torrie et al.  
D359,557 S 6/1995 Hayes  
5,527,343 A 6/1996 Bonutti  
5,573,548 A \* 11/1996 Nazre et al. .... 606/232

FIG. 1 is a front perspective view of a suture anchor.  
FIG. 2 is a front side plan view of the suture anchor of FIG. 1.  
FIG. 3 is a top plan view of the suture anchor of FIG. 1.  
FIG. 4 is a bottom plan view of the suture anchor of FIG. 1;  
and,  
FIG. 5 is a right side plan view of the suture anchor of FIG. 1.  
The left side view is identical to the right side view.  
The broken lines showing in FIG. 3 are for environmental  
purposes only and form no part of the claimed design.

**1 Claim, 2 Drawing Sheets**



(56)

References Cited

U.S. PATENT DOCUMENTS

5,690,676 A	11/1997	DiPoto et al.	D628,292 S *	11/2010	Berberich .....	D24/145
5,693,060 A	12/1997	Martin	7,828,820 B2	11/2010	Stone et al.	
5,718,717 A	2/1998	Bonutti	7,867,251 B2	1/2011	Colleran et al.	
5,733,307 A	3/1998	Dinsdale	7,883,509 B2	2/2011	Ferrante et al.	
5,741,281 A	4/1998	Martin	7,883,529 B2 *	2/2011	Sinnott et al. ....	606/232
5,769,894 A	6/1998	Ferragamo	7,976,565 B1	7/2011	Meridew	
5,782,862 A	7/1998	Bonutti	8,029,536 B2	10/2011	Sorensen et al.	
5,814,072 A	9/1998	Bonutti	8,105,326 B2	1/2012	Ferrante et al.	
5,921,986 A	7/1999	Bonutti	8,123,806 B1	2/2012	Hoof	
5,935,149 A	8/1999	Ek	8,147,514 B2	4/2012	Bonutti	
5,951,559 A	9/1999	Burkhart	8,206,446 B1	6/2012	Montgomery	
5,957,953 A	9/1999	DiPoto et al.	8,231,674 B2	7/2012	Albertorio et al.	
5,964,783 A	10/1999	Grafton et al.	8,298,234 B2	10/2012	Ferrante et al.	
5,980,558 A	11/1999	Wiley	8,403,957 B2 *	3/2013	Martinek et al. ....	606/232
5,980,559 A	11/1999	Bonutti	8,579,940 B2 *	11/2013	Dreyfuss et al. ....	606/232
5,993,451 A	11/1999	Burkhart	8,858,596 B2 *	10/2014	Robison .....	606/232
6,086,591 A	7/2000	Bojarski	9,023,082 B2 *	5/2015	Wolf .....	606/232
6,146,406 A	11/2000	Shluzas et al.	2002/0161401 A1 *	10/2002	Steiner .....	606/232
6,214,031 B1	4/2001	Schmieding et al.	2003/0144696 A1 *	7/2003	Sinnott et al. ....	606/232
6,231,606 B1	5/2001	Graf et al.	2004/0093032 A1 *	5/2004	Sinnott et al. ....	606/232
6,258,016 B1	7/2001	Kuo	2005/0070905 A1	3/2005	Donnelly et al.	
6,273,890 B1	8/2001	Frazier	2005/0222619 A1 *	10/2005	Dreyfuss et al. ....	606/232
6,336,940 B1	1/2002	Graf et al.	2006/0235413 A1 *	10/2006	Denham et al. ....	606/72
6,508,830 B2	1/2003	Steiner	2008/0109038 A1 *	5/2008	Steiner et al. ....	606/232
6,565,573 B1	5/2003	Ferrante et al.	2008/0243184 A1 *	10/2008	Martinek et al. ....	606/232
6,569,187 B1	5/2003	Bonutti et al.	2009/009598 A1 *	4/2009	McDevitt et al. ....	606/232
6,641,597 B2	11/2003	Burkhart et al.	2009/0105768 A1 *	4/2009	Cragg et al. ....	606/301
6,656,183 B2	12/2003	Colleran et al.	2009/0149883 A1	6/2009	Brunsvold	
6,702,821 B2	3/2004	Bonutti	2009/0192546 A1 *	7/2009	Schmieding et al. ....	606/232
6,716,234 B2	4/2004	Grafton et al.	2010/0179592 A1 *	7/2010	Martinek et al. ....	606/232
6,932,834 B2	8/2005	Lizardi et al.	2011/0224727 A1 *	9/2011	Housman et al. ....	606/232
6,953,479 B2	10/2005	Carson et al.	2012/0083840 A1 *	4/2012	DiMatteo et al. ....	606/232
6,986,781 B2	1/2006	Smith	2012/0290003 A1 *	11/2012	Dreyfuss .....	606/232
6,991,636 B2	1/2006	Rose	2013/0079818 A1	3/2013	Lizardi et al.	
6,994,719 B2	2/2006	Grafton	2013/0085528 A1	4/2013	DiMatteo et al.	
7,029,490 B2	4/2006	Grafton et al.	2013/0158596 A1	6/2013	Miller et al.	
7,087,073 B2	8/2006	Bonutti	2013/0158597 A1	6/2013	Hernandez	
7,226,469 B2	6/2007	Benavitz et al.	2013/0158598 A1	6/2013	Lizardi	
7,309,337 B2	12/2007	Colleran et al.	2013/0158599 A1	6/2013	Hester et al.	
7,329,272 B2	2/2008	Burkhart et al.	2013/0184748 A1	7/2013	Sojka et al.	
7,331,982 B1	2/2008	Kaiser et al.	2013/0245685 A1	9/2013	Contiliano et al.	
D587,807 S	3/2009	Wolf et al.	2014/0074164 A1 *	3/2014	Dreyfuss et al. ....	606/232
7,530,990 B2	5/2009	Perriello et al.	2014/0277130 A1 *	9/2014	Housman .....	606/232
7,585,311 B2	9/2009	Green et al.	2015/0112384 A1 *	4/2015	Hirotsuka et al. ....	606/232
7,713,285 B1	5/2010	Stone et al.				
D622,847 S *	8/2010	Berberich .....				D24/145
7,780,701 B1	8/2010	Meridew et al.				
7,806,896 B1	10/2010	Bonutti				

OTHER PUBLICATIONS

Smith & Nephew, Inc., "Bioraptor Knotless Suture Anchor Arthroscopic Shoulder Instability Repair," Feb. 2010, 8 pages.

\* cited by examiner

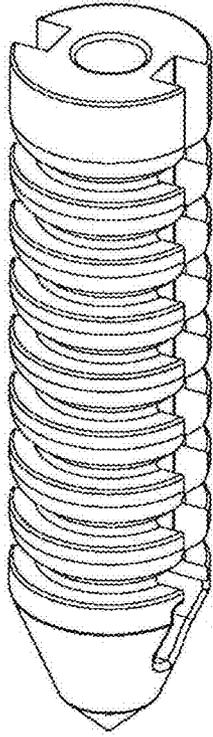


Fig. 1

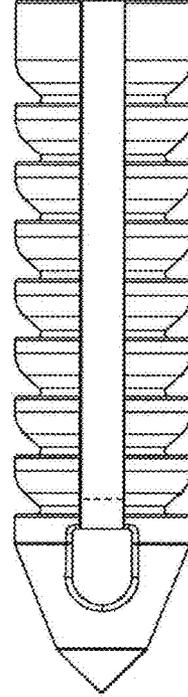


Fig. 2

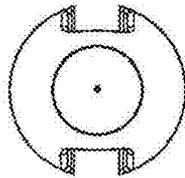


Fig. 3

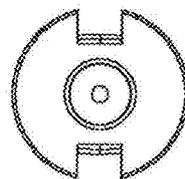
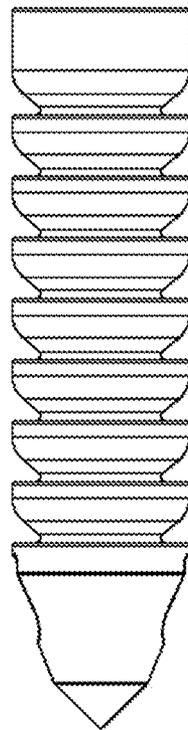


Fig. 4



**Fig. 5**