



US00D740418S

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

(10) **Patent No.:** **US D740,418 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.
D385,352 S *	10/1997	Bales et al. D24/145
5,690,676 A	11/1997	DiPoto et al.

(Continued)

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

(21) Appl. No.: **29/498,908**

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

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

(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; 606/60,
606/62, 67, 79, 82, 104, 144, 147
CPC A61B 2017/0409; A61B 2017/0414;
A61B 17/0424; 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.

(56) **References Cited**

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.
5,258,016 A	11/1993	DiPoto 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

FOREIGN PATENT DOCUMENTS

EP 1 101 459 A2 5/2001

OTHER PUBLICATIONS

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

(Continued)

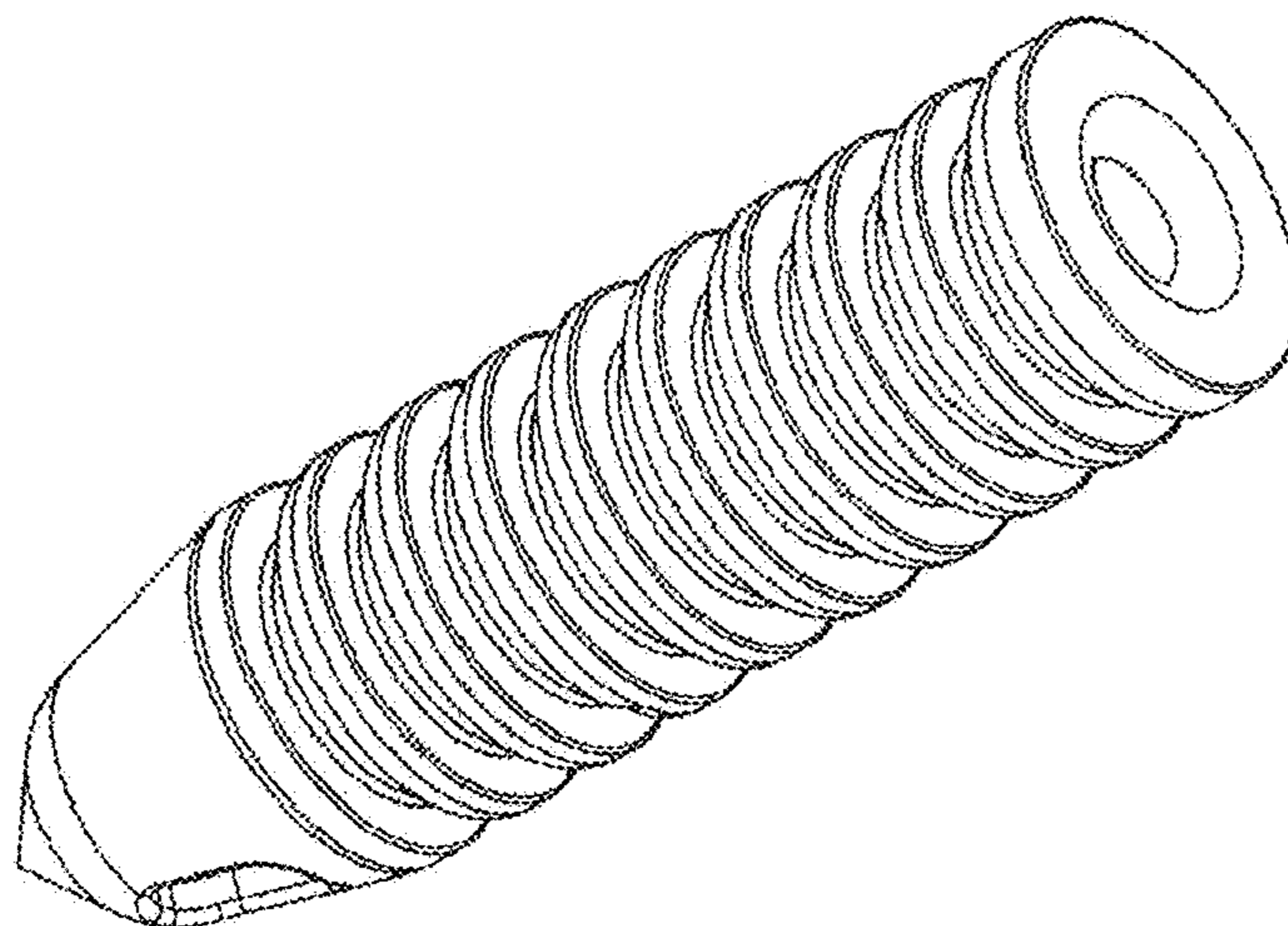
Primary Examiner — Wan Laymon
Assistant Examiner — Mark Booker
(74) *Attorney, Agent, or Firm* — Angela Holt; Bradley Arant
Boult Cummings LLP

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

DESCRIPTION

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.

1 Claim, 2 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

5,693,060 A 12/1997 Martin
 5,718,717 A 2/1998 Bonutti
 5,733,307 A 3/1998 Dinsdale
 5,741,281 A 4/1998 Martin
 5,769,894 A 6/1998 Ferragamo
 5,782,862 A 7/1998 Bonutti
 5,814,072 A 9/1998 Bonutti
 5,921,986 A 7/1999 Bonutti
 5,935,149 A 8/1999 Ek
 5,951,559 A 9/1999 Burkhart
 5,957,953 A 9/1999 DiPoto et al.
 5,964,783 A 10/1999 Grafton et al.
 5,980,558 A 11/1999 Wiley
 5,980,559 A 11/1999 Bonutti
 5,993,451 A 11/1999 Burkhart
 6,086,591 A 7/2000 Bojarski
 6,146,406 A 11/2000 Shluzas et al.
 6,214,031 B1 4/2001 Schmieding et al.
 6,231,606 B1 5/2001 Graf et al.
 6,273,890 B1 8/2001 Frazier
 6,336,940 B1 1/2002 Graf et al.
 6,508,830 B2 1/2003 Steiner
 6,565,573 B1 5/2003 Ferrante et al.
 6,569,187 B1 5/2003 Bonutti et al.
 6,641,597 B2 11/2003 Burkhart et al.
 6,652,563 B2 11/2003 Dreyfuss
 6,656,183 B2 12/2003 Colleran et al.
 6,702,821 B2 3/2004 Bonutti
 6,716,234 B2 4/2004 Grafton et al.
 6,932,834 B2 8/2005 Lizardi et al.
 6,953,479 B2 10/2005 Carson et al.
 6,986,781 B2 1/2006 Smith
 6,991,636 B2 1/2006 Rose
 6,994,719 B2 2/2006 Grafton
 7,029,490 B2 4/2006 Grafton et al.
 7,087,073 B2 8/2006 Bonutti
 7,226,469 B2 6/2007 Benavitz et al.
 7,309,337 B2 12/2007 Colleran et al.
 7,329,272 B2 2/2008 Burkhart et al.
 7,331,982 B1 2/2008 Kaiser et al.
 D587,807 S 3/2009 Wolf et al.
 7,530,990 B2 5/2009 Perriello et al.
 7,585,311 B2 9/2009 Green et al.
 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

D628,292 S * 11/2010 Berberich D24/145
 7,828,820 B2 11/2010 Stone et al.
 7,867,251 B2 1/2011 Colleran et al.
 7,883,509 B2 2/2011 Ferrante et al.
 7,883,529 B2 * 2/2011 Sinnott et al. 606/232
 7,976,565 B1 7/2011 Meridew
 8,029,536 B2 10/2011 Sorensen et al.
 8,105,326 B2 1/2012 Ferrante et al.
 8,123,806 B1 2/2012 Hoof
 8,147,514 B2 4/2012 Bonutti
 8,206,446 B1 6/2012 Montgomery
 8,231,674 B2 7/2012 Albertorio et al.
 8,298,234 B2 10/2012 Ferrante et al.
 8,403,957 B2 * 3/2013 Martinek et al. 606/232
 8,579,940 B2 * 11/2013 Dreyfuss et al. 606/232
 8,858,596 B2 * 10/2014 Robison 606/232
 9,023,082 B2 * 5/2015 Wolf 606/232
 2002/0161401 A1 * 10/2002 Steiner 606/232
 2003/0144696 A1 * 7/2003 Sinnott et al. 606/232
 2004/0093032 A1 * 5/2004 Sinnott et al. 606/232
 2005/0070905 A1 3/2005 Donnelly et al.
 2005/0222619 A1 * 10/2005 Dreyfuss et al. 606/232
 2006/0235413 A1 * 10/2006 Denham et al. 606/72
 2008/0109038 A1 * 5/2008 Steiner et al. 606/232
 2008/0243184 A1 * 10/2008 Martinek et al. 606/232
 2009/0099598 A1 * 4/2009 McDevitt et al. 606/232
 2009/0105768 A1 * 4/2009 Cragg et al. 606/301
 2009/0149883 A1 6/2009 Brunsvold
 2009/0192546 A1 * 7/2009 Schmieding et al. 606/232
 2010/0179592 A1 * 7/2010 Martinek et al. 606/232
 2011/0224727 A1 * 9/2011 Housman et al. 606/232
 2012/0083840 A1 * 4/2012 DiMatteo et al. 606/232
 2012/0290003 A1 * 11/2012 Dreyfuss 606/232
 2013/0079818 A1 3/2013 Lizardi et al.
 2013/0085528 A1 4/2013 DiMatteo et al.
 2013/0158596 A1 6/2013 Miller et al.
 2013/0158597 A1 6/2013 Hernandez
 2013/0158598 A1 6/2013 Lizardi
 2013/0158599 A1 6/2013 Hester et al.
 2013/0184748 A1 7/2013 Sojka et al.
 2013/0245685 A1 9/2013 Contiliano et al.
 2014/0074164 A1 * 3/2014 Dreyfuss et al. 606/232
 2014/0277130 A1 * 9/2014 Housman 606/232
 2015/0112384 A1 * 4/2015 Hirotsuka et al. 606/232

OTHER PUBLICATIONS

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

* cited by examiner

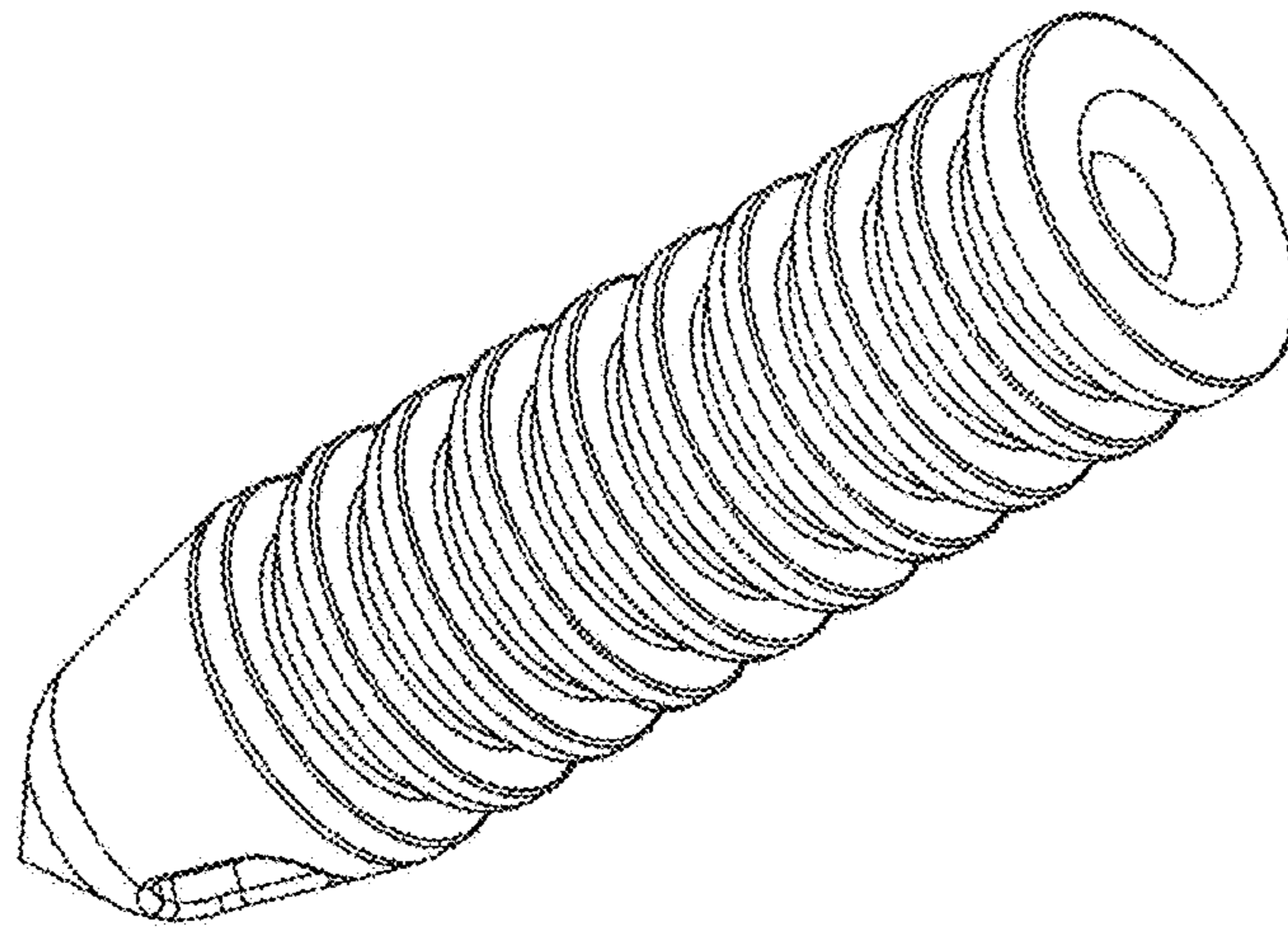


Fig. 1

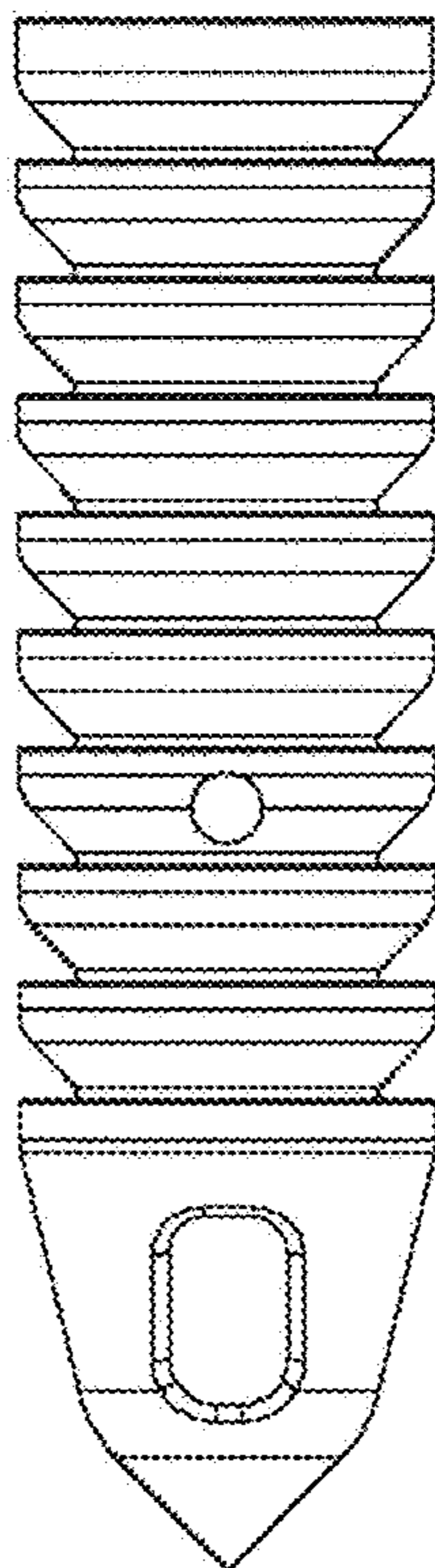


Fig. 2

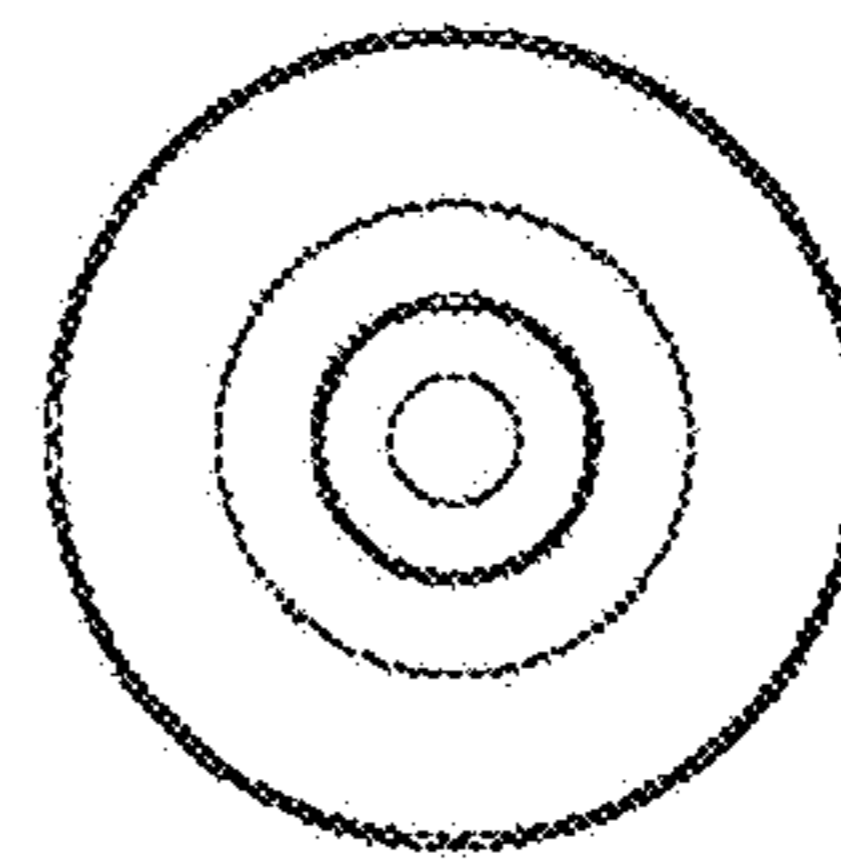


Fig. 3

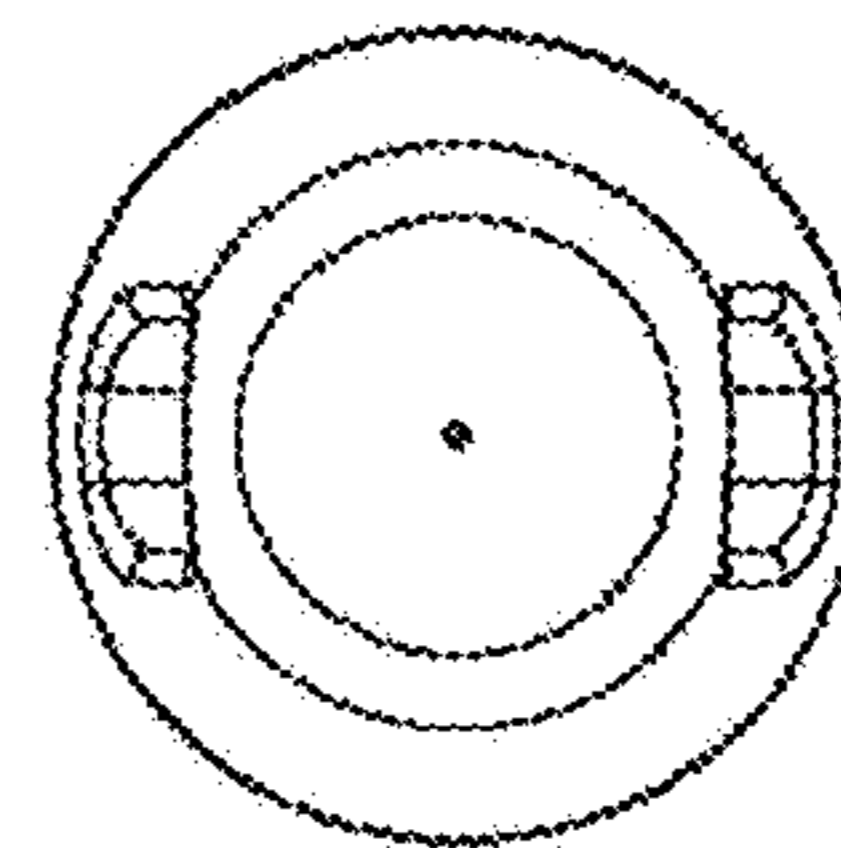


Fig. 4

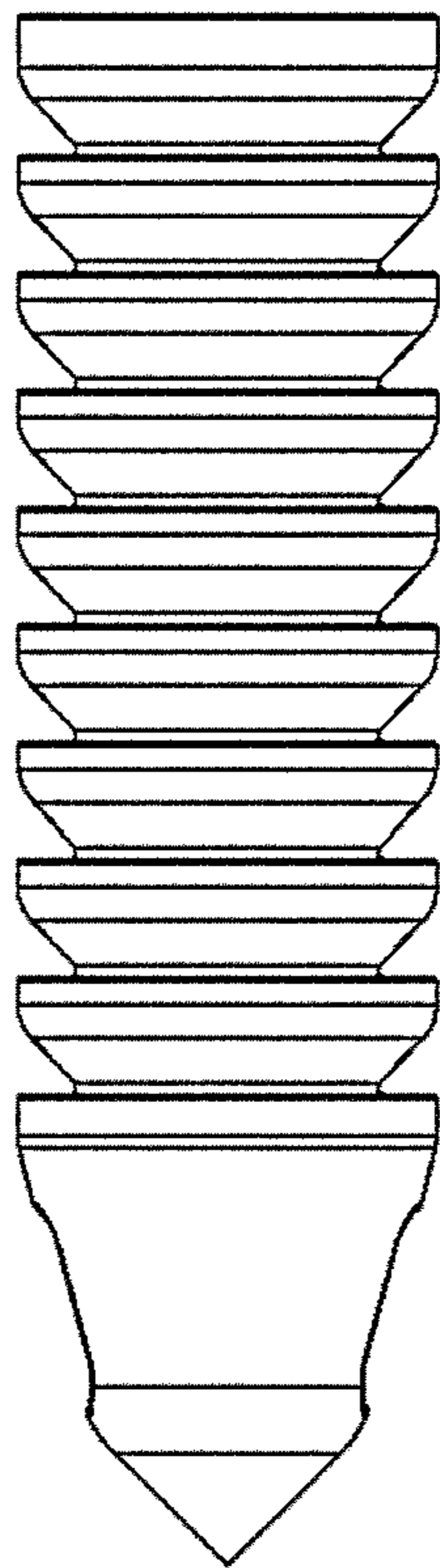


Fig. 5