



US00D739935S

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

(10) **Patent No.:** **US D739,935 S**

(45) **Date of Patent:** **\*\* \*Sep. 29, 2015**

- (54) **INTERBODY BONE IMPLANT**
- (75) Inventors: **Jason Blain**, Encinitas, CA (US); **Greg Martin**, Carlsbad, CA (US)
- (73) Assignee: **Spinal Elements, Inc.**, Carlsbad, CA (US)

4,730,615 A	3/1988	Sutherland et al.
4,907,577 A	3/1990	Wu
4,941,466 A	7/1990	Romano
5,002,546 A	3/1991	Romano
5,011,484 A	4/1991	Bréard
5,413,576 A	5/1995	Rivard
5,462,542 A	10/1995	Alesi, Jr.

(Continued)

(\*) Notice: This patent is subject to a terminal disclaimer.

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

(21) Appl. No.: **29/404,921**

(22) Filed: **Oct. 26, 2011**

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

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

(58) **Field of Classification Search**  
 USPC ..... D24/155, 133, 135; 623/17.15, 17.16, 623/17.12; 604/500; 606/61; D12/204, 207  
 CPC ..... A61F 2/4611; A61F 2/442; A61F 2/447; A61F 2220/0025; A61F 2310/00023; A61F 2310/00017; A61F 2002/4475; A61F 2002/30841; A61F 2002/2835; A61F 2002/30904; A61F 2002/30785; A61F 2002/443; A61F 2002/30578

See application file for complete search history.

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

2,486,303 A	10/1949	Longfellow
3,111,945 A	11/1963	Von Solbrig
4,037,603 A	7/1977	Wendorff
4,119,091 A	10/1978	Partridge
D261,935 S	11/1981	Halloran
4,312,337 A	1/1982	Donohue
D279,502 S	7/1985	Halloran
D279,503 S	7/1985	Halloran
4,535,764 A	8/1985	Ebert
4,706,659 A	11/1987	Matthews et al.
4,722,331 A	2/1988	Fox

**FOREIGN PATENT DOCUMENTS**

JP	2008-510526	4/2008
WO	WO 94/04088	3/1994

**OTHER PUBLICATIONS**

International Preliminary Report and Written Opinion in International App No. PCT/US2005/003753, dated Jan. 9, 2007.

(Continued)

*Primary Examiner* — Ian Simmons  
*Assistant Examiner* — Charles Hanson  
 (74) *Attorney, Agent, or Firm* — Knobbe, Martens, Olson & Bear, LLP

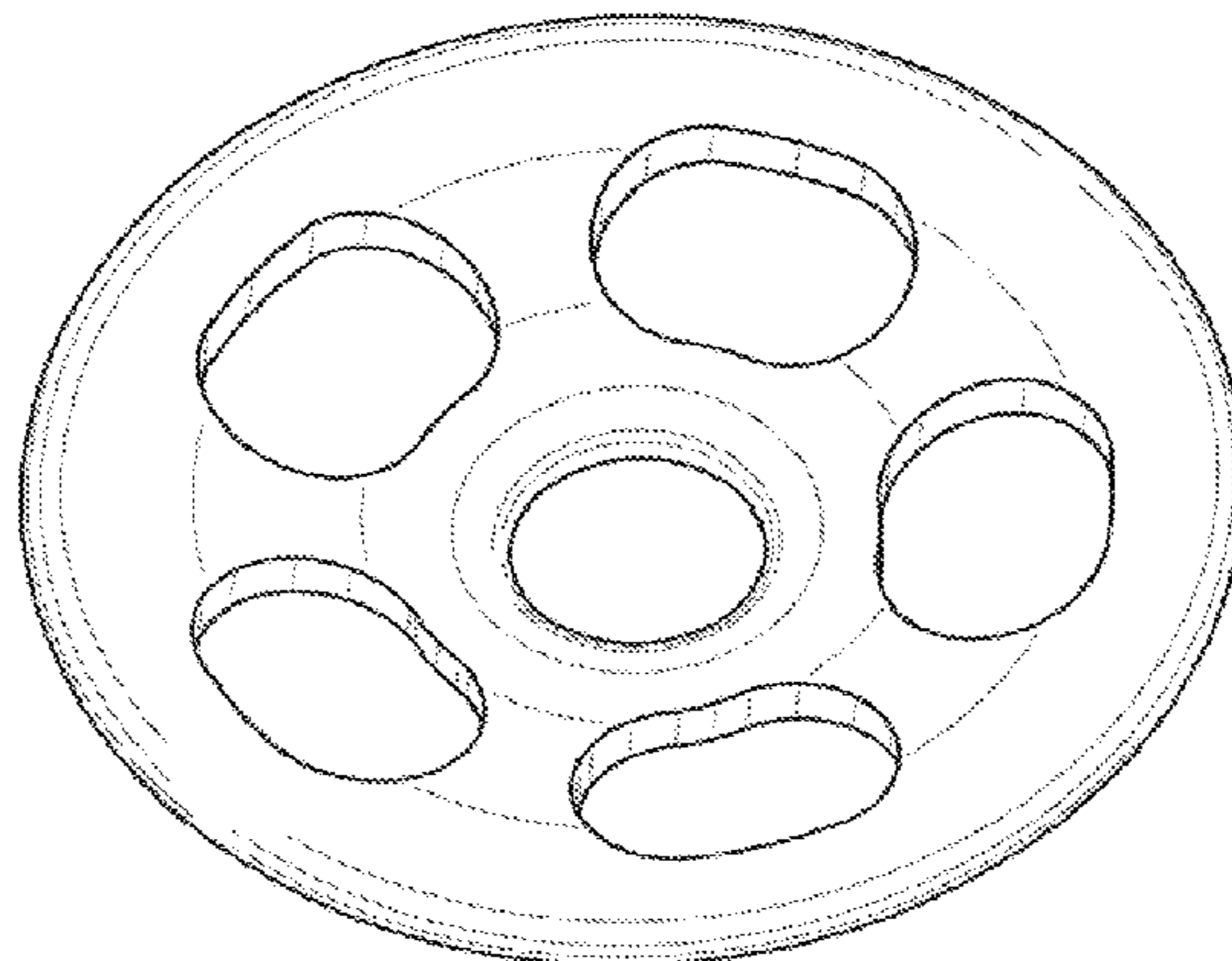
(57) **CLAIM**  
 The ornamental design for an interbody bone implant, as shown and described.

**DESCRIPTION**

This application is related to U.S. patent application Ser. No. 29/404,922 entitled "Interbody Bone Implant," filed on even date herewith.

FIG. 1 is a front perspective view of an interbody bone implant showing our new design;  
 FIG. 2 is a top view thereof;  
 FIG. 3 is a bottom view thereof;  
 FIG. 4 is a first side view thereof;  
 FIG. 5 is a second side view thereof;  
 FIG. 6 is a third side view thereof; and,  
 FIG. 7 is a cross sectional view taken along line 7-7 in FIG. 2.

**1 Claim, 3 Drawing Sheets**



(56)

References Cited

U.S. PATENT DOCUMENTS

5,540,706 A 7/1996 Aust et al.  
 5,549,619 A 8/1996 Peters et al.  
 5,700,265 A 12/1997 Romano  
 5,725,582 A 3/1998 Bevan et al.  
 5,741,260 A 4/1998 Songer et al.  
 5,851,208 A 12/1998 Trott  
 6,019,763 A \* 2/2000 Nakamura et al. .... 606/77  
 6,050,998 A 4/2000 Fletcher  
 6,179,839 B1 \* 1/2001 Weiss et al. .... 606/281  
 D439,340 S \* 3/2001 Michelson ..... D24/155  
 D450,122 S \* 11/2001 Michelson ..... D24/155  
 6,368,325 B1 4/2002 McKinley et al.  
 D463,560 S \* 9/2002 Michelson ..... D24/155  
 6,572,617 B1 6/2003 Senegas  
 D479,331 S 9/2003 Pike et al.  
 6,641,614 B1 11/2003 Wagner et al.  
 6,656,195 B2 12/2003 Peters et al.  
 6,669,697 B1 12/2003 Pisharodi  
 6,743,232 B2 \* 6/2004 Overaker et al. .... 623/13.14  
 D517,404 S \* 3/2006 Schluter ..... D8/387  
 D565,180 S \* 3/2008 Liao ..... D24/155  
 7,458,981 B2 12/2008 Fielding et al.  
 7,585,300 B2 9/2009 Cha  
 7,695,472 B2 4/2010 Young  
 7,846,183 B2 12/2010 Blain  
 7,862,590 B2 1/2011 Lim et al.  
 7,935,136 B2 5/2011 Alamin et al.  
 D643,121 S 8/2011 Milford et al.  
 7,998,172 B2 8/2011 Blain  
 8,052,728 B2 11/2011 Hestad  
 8,109,971 B2 2/2012 Hale  
 8,192,468 B2 6/2012 Biedermann et al.  
 8,216,275 B2 7/2012 Fielding et al.  
 8,246,655 B2 8/2012 Jackson et al.  
 8,652,137 B2 2/2014 Blain et al.  
 8,740,942 B2 6/2014 Blain  
 8,740,949 B2 6/2014 Blain  
 8,858,597 B2 10/2014 Blain  
 8,882,804 B2 11/2014 Blain  
 D724,733 S 3/2015 Blain et al.  
 8,992,533 B2 3/2015 Blain et al.  
 8,998,953 B2 4/2015 Blain  
 2002/0018799 A1 2/2002 Spector et al.  
 2002/0086047 A1 7/2002 Mueller et al.  
 2005/0059972 A1 3/2005 Biscup  
 2005/0177240 A1 8/2005 Blain  
 2005/0216017 A1 9/2005 Fielding et al.  
 2005/0256494 A1 11/2005 Datta  
 2006/0004367 A1 1/2006 Alamin et al.  
 2006/0084985 A1 4/2006 Kim  
 2006/0085072 A1 4/2006 Funk et al.  
 2006/0241601 A1 10/2006 Trautwein et al.  
 2007/0078464 A1 4/2007 Jones et al.  
 2007/0250166 A1 10/2007 McKay  
 2007/0270812 A1 11/2007 Peckham  
 2008/0183211 A1 7/2008 Lamborne et al.  
 2008/0228225 A1 9/2008 Trautwein et al.  
 2009/0005818 A1 1/2009 Chin et al.  
 2009/0018662 A1 1/2009 Pasquet et al.  
 2009/0264928 A1 10/2009 Blain  
 2009/0264929 A1 10/2009 Alamin et al.  
 2009/0270918 A1 10/2009 Attia et al.  
 2010/0204732 A1 8/2010 Aschmann et al.  
 2010/0234894 A1 9/2010 Alamin et al.  
 2010/0274289 A1 10/2010 Carls et al.  
 2010/0318133 A1 12/2010 Tornier  
 2011/0040301 A1 2/2011 Blain et al.

2011/0082503 A1 4/2011 Blain  
 2011/0098816 A1 4/2011 Jacob et al.  
 2011/0295318 A1 12/2011 Alamin et al.  
 2011/0313456 A1 12/2011 Blain  
 2012/0035658 A1 2/2012 Goble et al.  
 2012/0101502 A1 4/2012 Kartalian et al.  
 2012/0150231 A1 6/2012 Alamin et al.  
 2012/0221048 A1 8/2012 Blain  
 2012/0221049 A1 8/2012 Blain  
 2012/0221060 A1 8/2012 Blain  
 2012/0245586 A1 9/2012 Lehenkari et al.  
 2012/0271354 A1 10/2012 Baccelli et al.  
 2012/0310244 A1 12/2012 Blain et al.  
 2013/0197646 A1 8/2013 Blain et al.  
 2013/0245693 A1 9/2013 Blain  
 2013/0325065 A1 12/2013 Malandain et al.  
 2014/0228883 A1 8/2014 Blain  
 2014/0257397 A1 9/2014 Akbarnia et al.  
 2014/0277142 A1 9/2014 Blain  
 2014/0277148 A1 9/2014 Blain  
 2014/0336653 A1 11/2014 Bromer  
 2015/0081023 A1 3/2015 Blain  
 2015/0094766 A1 4/2015 Blain et al.  
 2015/0094767 A1 4/2015 Blain et al.

OTHER PUBLICATIONS

International Search Report and Written Opinion in International Application No. PCT/US2008/054607, dated Jul. 10, 2008.  
 International Preliminary Report on Patentability in International Application No. PCT/US2008/054607, dated Sep. 3, 2009.  
 International Search Report and Written Opinion in International Application No. PCT/US2011/047432, dated Dec. 12, 2011.  
 International Preliminary Report on Patentability in International Application No. PCT/US2011/047432, dated Feb. 28, 2013.  
 International Search Report in International Application No. PCT/US2012/026470, dated May 30, 2012.  
 International Preliminary Report on Patentability and Written Opinion in International Application No. PCT/US2012/026470, dated Sep. 6, 2013.  
 International Search Report and Written Opinion in International Application No. PCT/US2012/026472, dated Jun. 20, 2012.  
 ArthroTek, "CurvTek® Bone Tunneling System," Surgical Technique, 2000, pp. 6.  
 Official Communication in Australian Application No. AU2013237744, dated Sep. 2, 2014.  
 Notice of Acceptance in Australian Application No. AU2013237744, dated Apr. 23, 2015.  
 Official Communication in Canadian Application No. 2,803,783, dated Sep. 29, 2014.  
 Official Communication in European Application No. 14175088.5, dated Sep. 8, 2014.  
 Official Communication in Japanese Application No. 2012-272106, dated May 26, 2014.  
 Official Communication in Japanese Application No. 2012-272106, dated Feb. 23, 2015.  
 Official Communication in European Application No. 14177951.2, dated Nov. 13, 2014.  
 Official Communication in European Application No. 11818586.7, dated Nov. 6, 2014.  
 Official Communication in Japanese Application No. 2013-524882, dated Mar. 2, 2015.  
 International Search Report and Written Opinion in International Application No. PCT/US2014/019325, dated Jun. 17, 2014.  
 International Search Report and Written Opinion in International Application No. PCT/US2014/056598, dated Dec. 29, 2014.

\* cited by examiner

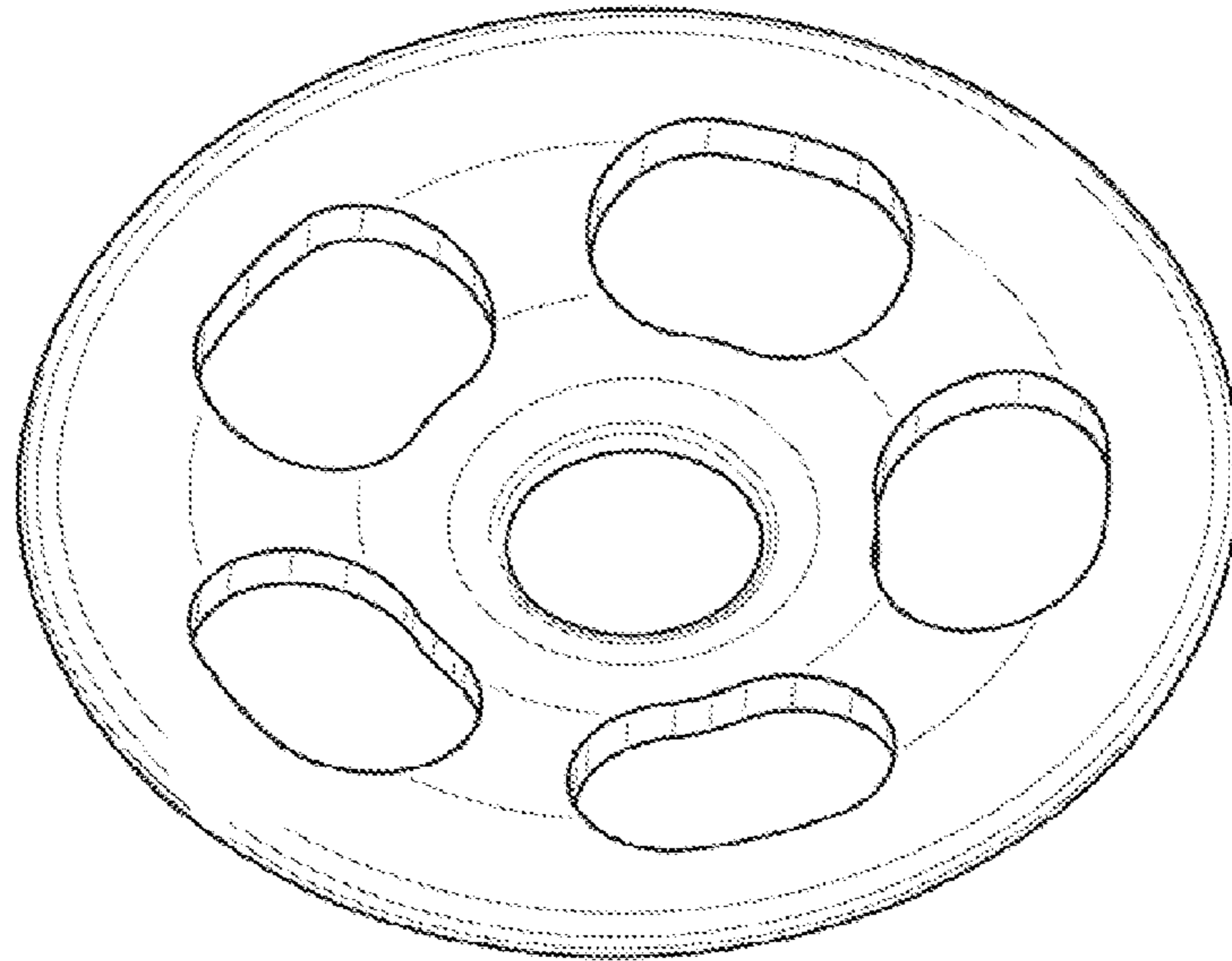


FIG. 1

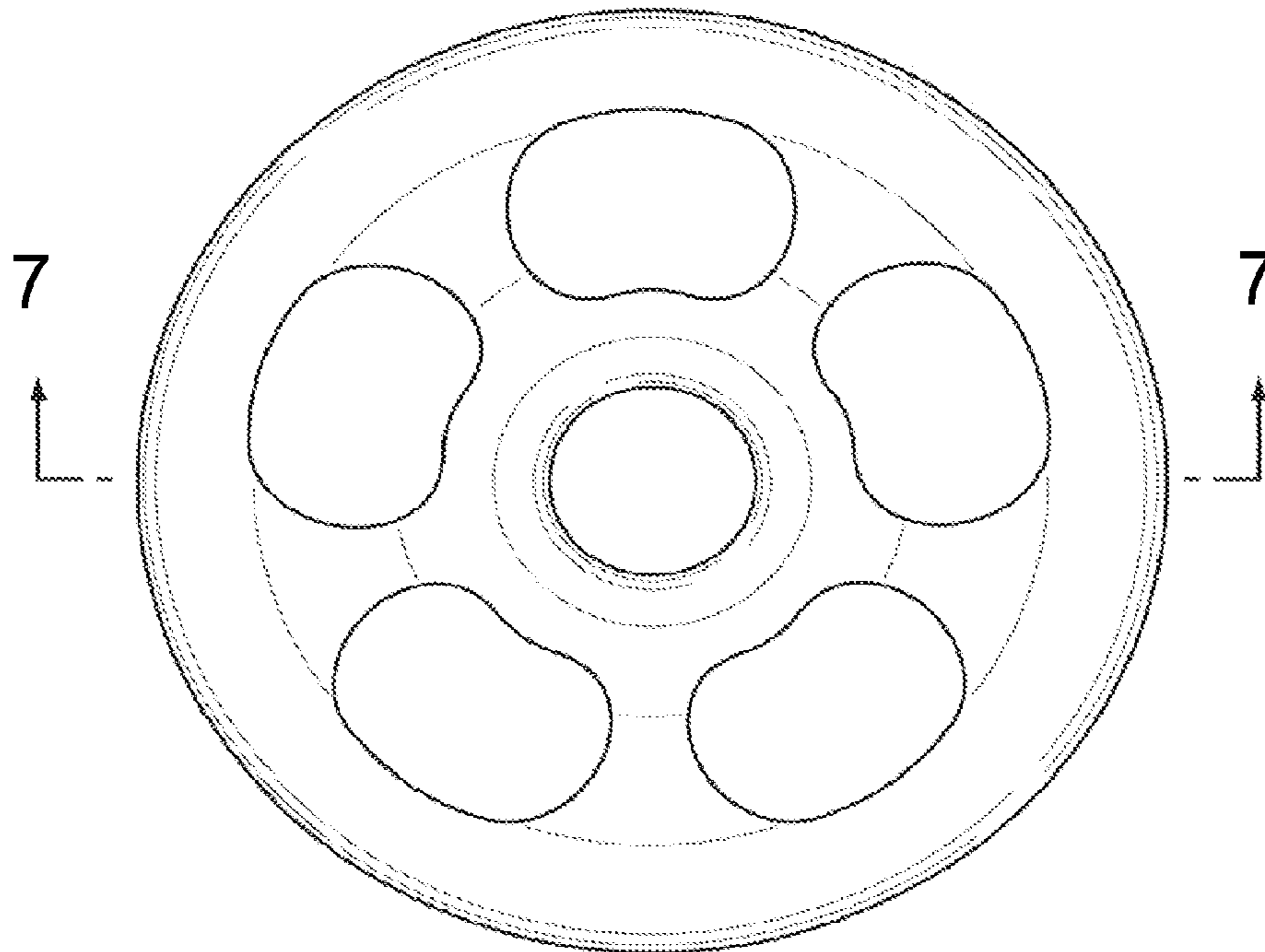


FIG. 2

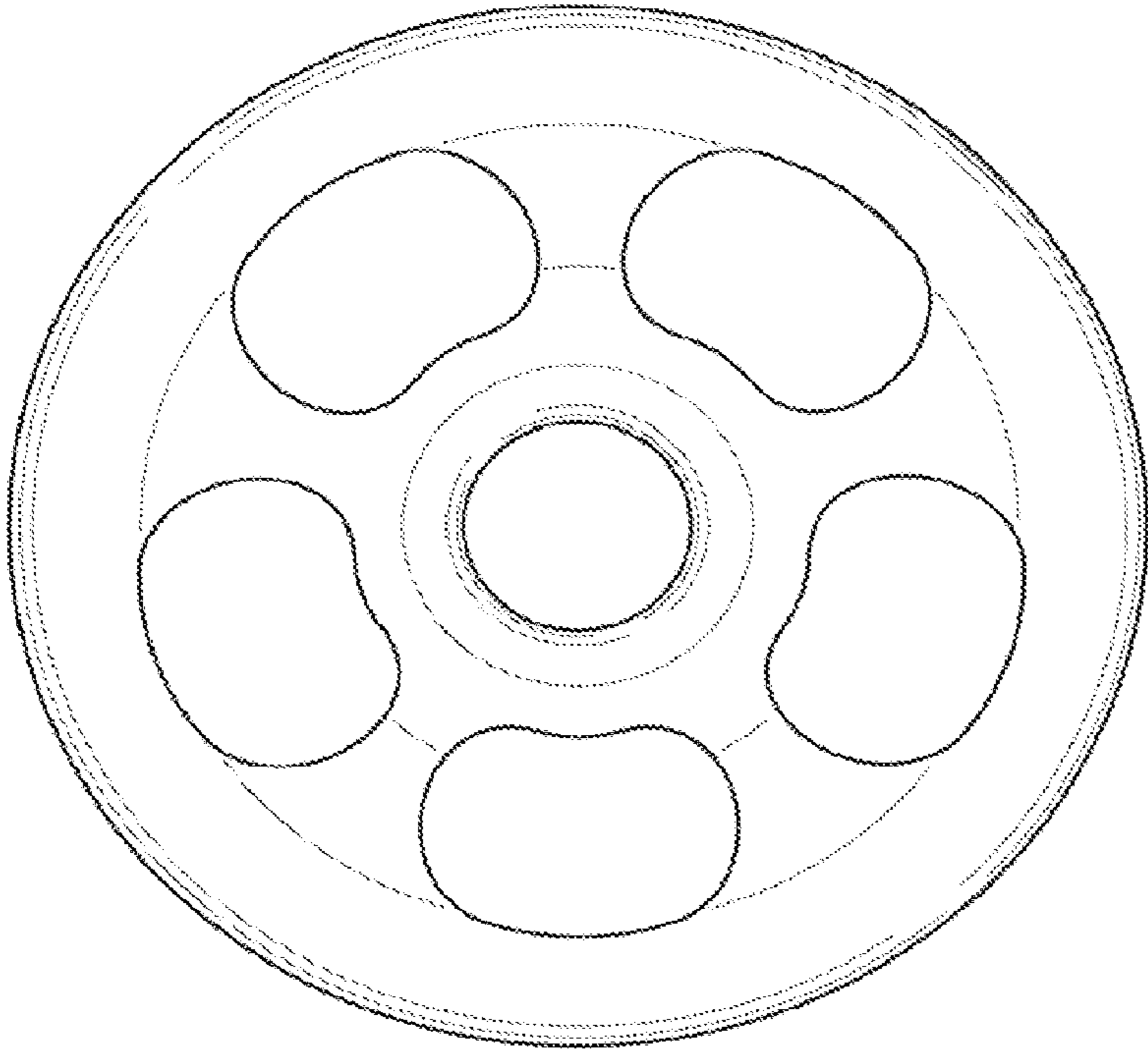


FIG. 3

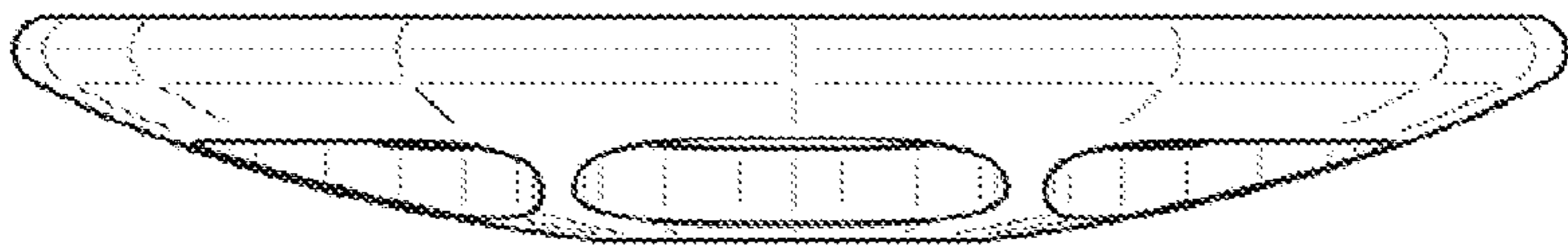


FIG. 4

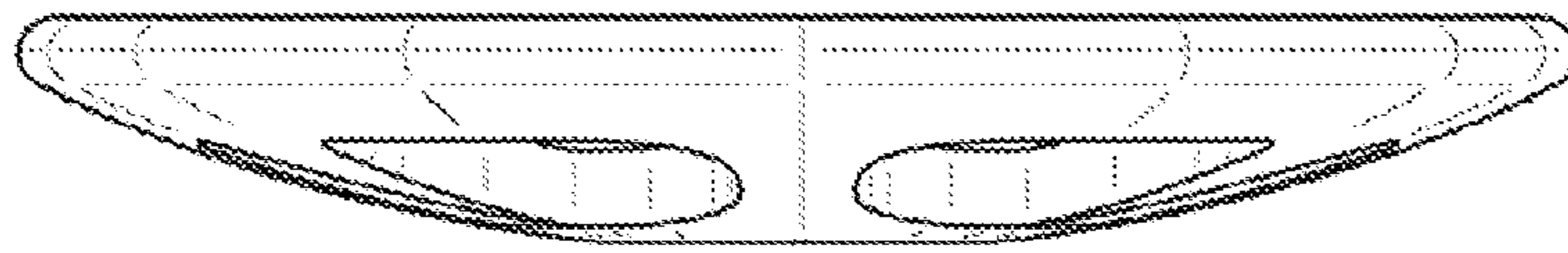


FIG. 5

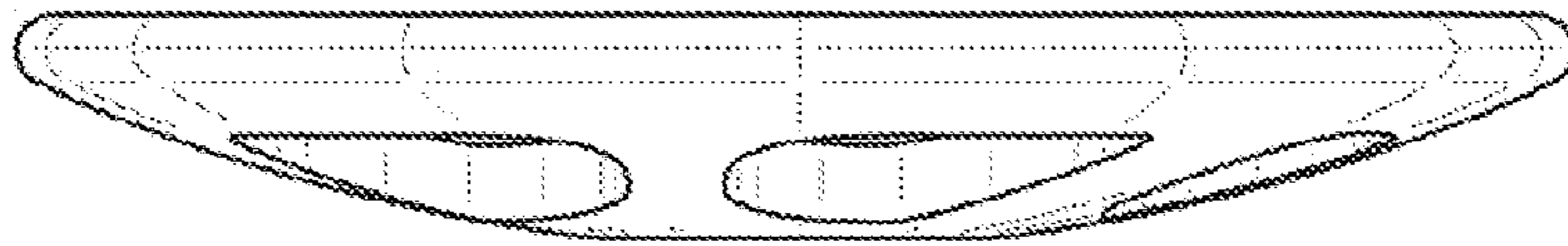


FIG. 6

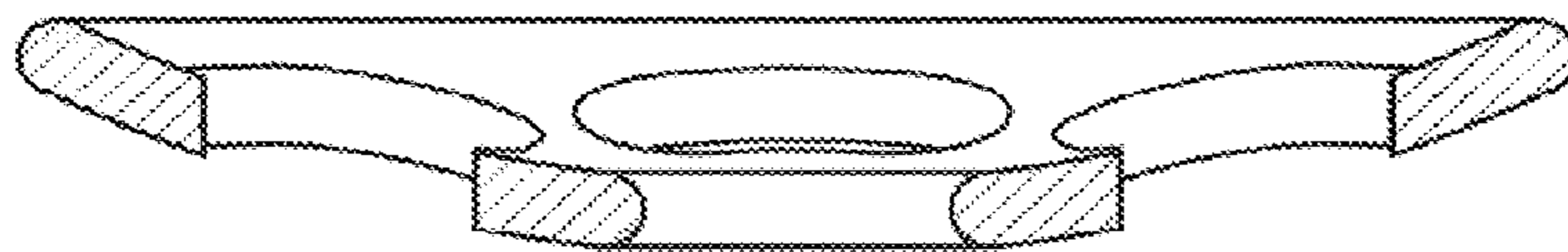


FIG. 7