



US00D603505S

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

(10) **Patent No.:** **US D603,505 S**

(45) **Date of Patent:** **** Nov. 3, 2009**

(54) **CERVICAL PLATE**

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

(21) Appl. No.: **29/320,799**

(22) Filed: **Jul. 3, 2008**

(51) **LOC (9) Cl.** **24-03**

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

(58) **Field of Classification Search** D24/155-157;
606/60, 61, 73, 95, 213, 281, 292, 70, 71,
606/76, 246, 248, 249, 247, 280, 283; 623/17.11,
623/17.12, 17.13, 17.14, 17.15, 17.16, 23.61,
623/23.56, 247, 213, 286; D15/143, 139;
D8/382, 394

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

4,488,543 A	12/1984	Tornier	
4,503,848 A *	3/1985	Caspar et al.	606/280
5,053,036 A	10/1991	Perren et al.	
5,147,361 A	9/1992	Ojima et al.	
5,151,103 A	9/1992	Tepic et al.	
5,209,751 A	5/1993	Farris et al.	
5,304,210 A	4/1994	Crook	
5,344,421 A	9/1994	Crook	
5,364,399 A	11/1994	Lowery et al.	
5,470,333 A	11/1995	Ray	
5,474,553 A	12/1995	Baumgart	
5,549,612 A	8/1996	Yapp et al.	
5,616,144 A	4/1997	Yapp et al.	
5,676,666 A	10/1997	Oxland et al.	
5,681,311 A	10/1997	Foley et al.	
5,681,313 A *	10/1997	Diez	606/70
5,709,686 A	1/1998	Talos et al.	
5,876,402 A	3/1999	Errico et al.	

5,931,838 A	8/1999	Vito	
5,951,558 A	9/1999	Fiz	
5,954,722 A	9/1999	Bono	
6,129,730 A	10/2000	Bono et al.	
6,139,550 A	10/2000	Michelson	
6,152,927 A	11/2000	Farris et al.	
6,159,213 A	12/2000	Rogozinski	
6,193,721 B1	2/2001	Michelson	
6,206,882 B1 *	3/2001	Cohen	606/283
D440,311 S	4/2001	Michelson	
6,224,602 B1	5/2001	Hayes	
6,228,085 B1	5/2001	Theken et al.	

(Continued)

OTHER PUBLICATIONS

U.S. Appl. No. 29/320,796, filed Jul. 3, 2008, Kriska et al.

(Continued)

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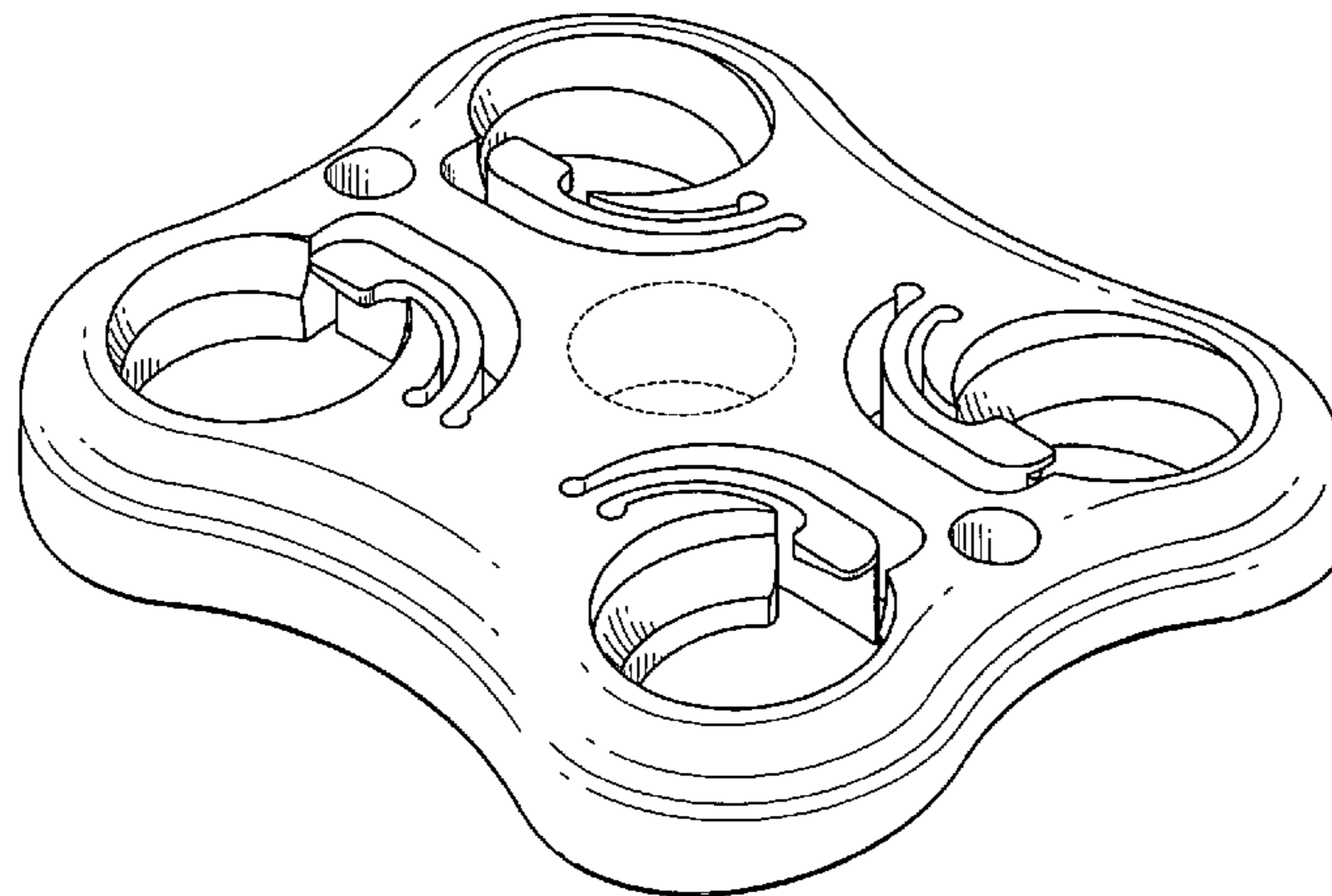
(57) **CLAIM**

The ornamental design for a cervical plate, as shown and described.

DESCRIPTION

FIG. 1 is a top perspective view of a cervical plate showing our new design;
FIG. 2 is a top plan view thereof;
FIG. 3 is a right side elevation thereof, the side opposite being a mirror image;
FIG. 4 is a rear elevation thereof, the end opposite being a mirror image; and,
FIG. 5 is a bottom plan view thereof.
The broken lines showing environmental structure are for illustrative purposes only and form no part of the claimed design.

1 Claim, 5 Drawing Sheets



U.S. PATENT DOCUMENTS

6,235,033 B1 5/2001 Brace et al.
 6,235,034 B1 5/2001 Bray
 6,258,089 B1 7/2001 Campbell et al.
 6,273,889 B1 8/2001 Richelsoph
 6,290,703 B1 9/2001 Ganem
 D449,692 S * 10/2001 Michelson D24/155
 6,306,139 B1 10/2001 Fuentes
 6,309,393 B1 10/2001 Tepic et al.
 6,342,055 B1 1/2002 Eisermann et al.
 6,361,537 B1 3/2002 Anderson
 6,383,186 B1 5/2002 Michelson
 6,398,783 B1 6/2002 Michelson
 6,402,756 B1 6/2002 Ralph et al.
 6,413,259 B1 7/2002 Lyons et al.
 6,416,528 B1 7/2002 Michelson
 6,428,542 B1 * 8/2002 Michelson 606/70
 6,454,769 B2 9/2002 Wagner et al.
 6,454,771 B1 * 9/2002 Michelson 606/70
 6,458,133 B1 10/2002 Lin
 6,527,776 B1 3/2003 Michelson
 6,533,786 B1 3/2003 Needham et al.
 6,575,975 B2 6/2003 Brace et al.
 6,592,586 B1 7/2003 Michelson
 6,599,290 B2 7/2003 Bailey et al.
 6,602,255 B1 8/2003 Campbell et al.
 6,602,256 B1 8/2003 Hayes
 6,602,257 B1 8/2003 Thramann
 6,605,090 B1 8/2003 Trieu et al.
 6,613,053 B1 9/2003 Collins et al.
 6,620,163 B1 9/2003 Michelson
 6,626,907 B2 9/2003 Campbell et al.
 6,652,525 B1 * 11/2003 Assaker et al. 606/70
 6,669,700 B1 12/2003 Farris et al.
 6,695,846 B2 2/2004 Richelsoph et al.
 D505,205 S * 5/2005 Freid D24/155
 6,890,334 B2 5/2005 Brace et al.
 6,890,335 B2 5/2005 Grabowski et al.
 6,916,320 B2 7/2005 Michelson
 6,926,718 B1 8/2005 Michelson
 6,936,050 B2 8/2005 Michelson
 6,936,051 B2 * 8/2005 Michelson 606/71
 6,945,973 B2 * 9/2005 Bray 606/71
 6,964,664 B2 11/2005 Freid et al.
 6,969,390 B2 11/2005 Michelson
 7,001,387 B2 2/2006 Farris
 7,001,389 B1 * 2/2006 Navarro et al. 606/71
 7,048,739 B2 5/2006 Konieczynski
 7,074,221 B2 7/2006 Michelson
 7,077,844 B2 7/2006 Michelson
 7,112,202 B2 9/2006 Michelson
 7,118,573 B2 10/2006 Michelson
 7,137,984 B2 11/2006 Michelson
 7,163,561 B2 1/2007 Michelson
 7,169,150 B2 1/2007 Shipp et al.
 7,186,256 B2 * 3/2007 Michelson 606/71
 7,220,263 B2 * 5/2007 Cordaro 606/70
 7,229,442 B2 * 6/2007 Schafer 606/272
 7,303,564 B2 12/2007 Freid
 7,306,605 B2 * 12/2007 Ross 606/70
 7,318,825 B2 * 1/2008 Butler et al. 606/71
 7,322,984 B2 * 1/2008 Doubler et al. 606/70
 7,438,715 B2 * 10/2008 Doubler et al. 606/71
 7,488,321 B2 * 2/2009 Lin 606/71
 7,491,209 B2 2/2009 Mueller et al.
 2001/0037112 A1 11/2001 Brace
 2002/0045898 A1 4/2002 Freid
 2002/0058939 A1 5/2002 Wagner et al.
 2002/0120273 A1 8/2002 Needham et al.
 2002/0151899 A1 10/2002 Bailey
 2002/0183754 A1 12/2002 Michelson
 2003/0045880 A1 3/2003 Michelson

2003/0181912 A1 9/2003 Michelson
 2003/0199876 A1 10/2003 Brace
 2003/0208204 A1 11/2003 Bailey et al.
 2003/0225409 A1 12/2003 Freid
 2004/0097935 A1 5/2004 Richelsoph et al.
 2004/0158246 A1 8/2004 Assaker et al.
 2004/0181226 A1 9/2004 Michelson
 2004/0220572 A1 11/2004 Michelson
 2004/0236334 A1 11/2004 Michelson
 2005/0038436 A1 2/2005 Michelson
 2005/0085812 A1 4/2005 Sherman et al.
 2005/0187552 A1 8/2005 Michelson
 2006/0276795 A1 * 12/2006 Orbay et al. 606/71

OTHER PUBLICATIONS

U.S. Appl. No. 29/320,798, filed Jul. 3, 2008, Kriska et al.
 U.S. Appl. No. 29/320,800, filed Jul. 3, 2008, Kriska et al.
 U.S. Appl. No. 29/320,802, filed Jul. 3, 2008, Kriska et al.
 U.S. Appl. No. 29/320,803, filed Jul. 3, 2008, Kriska et al.
 U.S. Appl. No. 29/320,804, filed Jul. 3, 2008, Kriska et al.
 U.S. Appl. No. 29/320,805, filed Jul. 3, 2008, Kriska et al.
 U.S. Appl. No. 29/320,806, filed Jul. 3, 2008, Kriska et al.
 U.S. Appl. No. 29/320,807, filed Jul. 3, 2008, Kriska et al.
 U.S. Appl. No. 29/320,808, filed Jul. 3, 2008, Kriska et al.
 U.S. Appl. No. 29/320,809, filed Jul. 3, 2008, Kriska et al.
 U.S. Appl. No. 29/320,810, filed Jul. 3, 2008, Kriska et al.
 Medtronic Sofamor Danek. Spinal Technologies Atlantis [online], [published on Jun. 27, 2002], [retrieved on Aug. 7, 2008]. Retrieved from the Internet <<http://www.sofamordanek.com/patient-spinal-atlantis.html>>.
 Stryker Corporation. Stryker Reflex Hybrid ACP Implant [online], [retrieved on Aug. 7, 2008]. Retrieved from the Internet <<http://www.stryker.com/en-us/products/Spine/Cervical/ReflexHybridACP/index.htm>>.
 Medscape. CSLP Small Stature technology [online], [retrieved on Aug. 7, 2008]. Retrieved from the internet <<http://www.medscape.com/content/2002/00/42/49/424941/art-nf424941.fig3.jpg>>.
 Synthes. Vectra-T [online], [retrieved on Aug. 7, 2008]. Retrieved from the internet <<http://www.synthes.com/html/Vectra-T.6894.0.html>>.
 Blackstone Medical, Inc. 3° Anterior Cervical Plate System [online], [retrieved on Aug. 7, 2008]. Retrieved from the internet <<http://www.blackstonemedical.com/3degree.php>>.
 NuVasive, Inc. NuVasive—Improving Spine Surgery Through the Application of Creative Technologies [online], [retrieved on Aug. 7, 2008]. Retrieved from the internet <<http://www.nuvasive.com/nuv-flash/home/home.swf>>.
 Alphatec Spine Inc. Deltaloc Anterior Cervical Plating System [online], [retrieved on Aug. 7, 2008]. Retrieved from the internet <<http://www.alphatecspine.com/deltaloc.html>>.
 DePuy Spine, Inc. Eagle Rigid Anterior Cervical Plate System [online], [retrieved on Aug. 7, 2008]. Retrieved from the internet <<http://www.depuy spine.com/products/cervicaloct/eagle.asp>>.
 Abbott Laboratories. SC-AcuFix [online], [retrieved on Aug. 7, 2008]. Retrieved from the internet <<http://international.abbottspine.com/index.php?id=79>>.
 Acuna Fombona. Acuna Fombona [online], Slimline technology, [retrieved on Aug. 7, 2008]. Retrieved from the internet <<http://www.acuna-fombona.com/products/products02.htm>>.
 Amedica. Valeo CP Cervical Plate System [online], [retrieved on Aug. 7, 2008]. Retrieved from the internet <<http://www.amediacorp.com/>>.
 K2M, Inc. Pyrenees Cervical Plate System [online], [retrieved on Aug. 7, 2008]. Retrieved from the internet <<http://www.k2m.com/products/pyreneescervical.cfm>>.
 Zimmer Spine, Inc. Trinica and Trinica Select Anterior Cervical Plate System [online], [retrieved on Aug. 7, 2008]. Retrieved from the internet <<http://www.zimmer.com/web/enUS/pdf/Trinica.pdf>>.
 Medscape. Orion technology, [online], [retrieved on Aug. 7, 2008]. Retrieved from the internet <www.medscape.com/content/2004/00/46/84/498466/art-nf468466.fig9.jpg>.

Biomet, Inc. C-Tek Anterior Cervical Plate [online], [retrieved on Aug. 7, 2008]. Retrieved from the internet <<http://www.biomet.com/spine/products.cfm?pdid=3&majcid=13&prodid=126>>.

X-Spine Systems, Inc. Spider Cervical Plate System [online], [retrieved on Aug. 7, 2008]. Retrieved from the internet <<http://www.x-spine.com/Products/spider.htm>>.

Medtronic Sofamor Danek. Spinal Technologies Zephir [online], [published on Mar. 25, 2002], [retrieved on Aug. 7, 2008]. Retrieved from the internet <<http://www.sofamordanek.com/patient-spinal-zephir.html>>.

Synthes. CSLP-Cervical Spine Locking Plate [online], [retrieved on Aug. 7, 2008]. Retrieved from the internet <http://www.synthes.com/html/fileadmin/Shared/shop/Printed_Materials/Technique_Guide/Spine_2007_08/036.000.062.pdf>.

DePuy Spine, Inc. Slim Loc Anterior Cervical Plate System [online], [retrieved on Aug. 7, 2008]. Retrieved from the internet <<http://www.depuyspine.com/products/cervicaloct/slimloc.asp>>.

Pioneer Surgical Technology, Inc. Pioneer Anterior Cervical Plate [online], [retrieved on Aug. 7, 2008]. Retrieved from the internet <http://www.pioneersurgical.com/products_spine_acp.asp?>>.

Biomet, Inc. Cyprus Anterior Cervical Plate System [online], [retrieved on Aug. 7, 2008]. Retrieved from the internet <<http://www.biomet.com/templates/btbs/pdf/cyprus.pdf>>.

Alphatec Spine, Inc. Trestle Anterior Cervical Plating System [online], [retrieved on Aug. 7, 2008]. Retrieved from the internet <<http://www.alphatecspine.com/trestle.html>>.

Medtronic Sofamor Danek. Spinal Technologies Atlantis Vision [online], [published on Sep. 20, 2004], [retrieved on Aug. 7, 2008]. Retrieved from the internet <<http://www.sofamordanek.com/atlantis-vision.html>>.

Synthes. CSLP VA [online], [retrieved on Aug. 7, 2008]. Retrieved from the internet <http://www.synthes.com/html/fileadmin/Shared/shop/Printed_Materials/Technique_Guide/Spine_2007_08/036.000.362.pdf>.

Synthes. Vectra [online], [retrieved on Aug. 7, 2008]. Retrieved from the internet <<http://www.synthes.com/html/Vectra.6895.0.html>>.

Depuy Spine, Inc. Uniplate Anterior Cervical Plate System [online], [retrieved on Aug. 7, 2008]. Retrieved from the internet <<http://www.depuyspine.com/products/cervicaloct/uniplate.asp>>.

Alphatec Spine Inc. Deltaloc Reveal Anterior Cervical Plating System [online], [retrieved on Aug. 7, 2008]. Retrieved from the internet <<http://www.alphatecspine.com/deltalocreveal.html>>.

Globus Medical. Cervical Products [online], Assure technology, [retrieved on Aug. 7, 2008]. Retrieved from the internet <<http://www.globusmedical.com/products/cervical.php>>.

Blackstone Medical, Inc. Reliant Anterior Cervical Plate System [online], [retrieved on Aug. 7, 2008]. Retrieved from the internet <<http://www.blackstonemedical.com/reliant.php>>.

Depuy Spine, Inc. Swift Dynamic Anterior Cervical Plate System [online], [retrieved on Aug. 7, 2008]. Retrieved from the internet <<http://www.depuyspine.com/products/cervicaloct/swift.asp>>.

Blackstone Medical, Inc. Hallmark Anterior Cervical Plate System [online], [retrieved on Aug. 7, 2008]. Retrieved from the internet <<http://www.blackstonemedical.com/hallmark.php>>.

Biomet, Inc. Cyclops Cervical Plate [online], [retrieved on Aug. 7, 2008]. Retrieved from the internet <<http://www.biomet.com/spine/products.cfm?pdid=3&majcid=13&prodid=174>>.

DePuy Spine, Inc. Skyline Anterior Cervical Plate System [online], [retrieved on Aug. 7, 2008]. Retrieved from the internet <<http://www.depuyspine.com/products/cervicaloct/skyline.asp>>.

Biomet, Inc. SpineLink Anterior Cervical Plate [online], [retrieved on Aug. 7, 2008]. Retrieved from the internet <<http://www.biomet.com/spine/products.cfm?pdid=3&majcid=13&prodid=15>>.

Biomet, Inc. VueLock Anterior Cervical Plate [online], [retrieved on Aug. 7, 2008]. Retrieved from the internet <<http://www.biomet.com/spine/products.cfm?pdid=3&majcid=13&prodid=18>>.

* cited by examiner

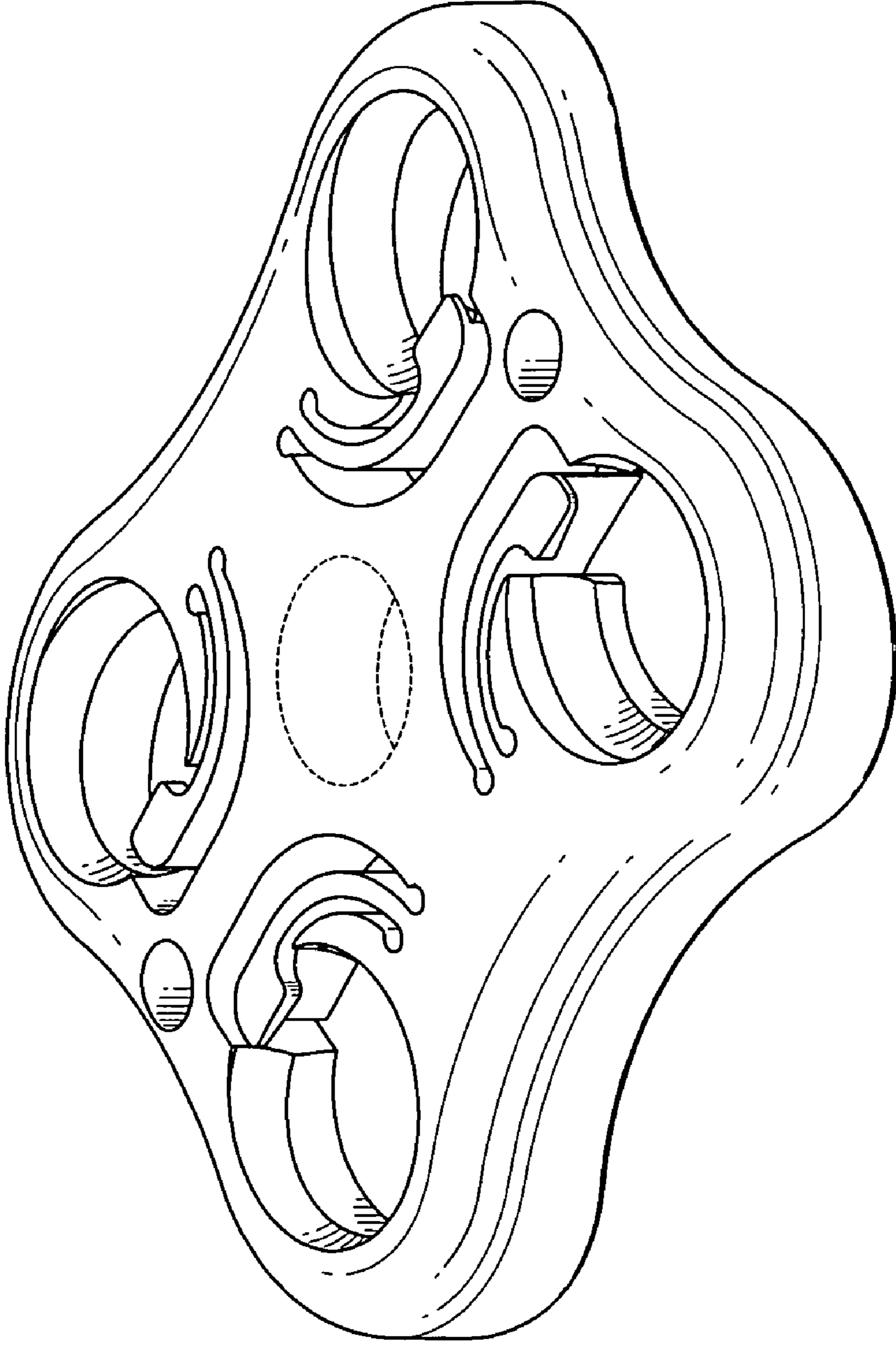


FIG. 1

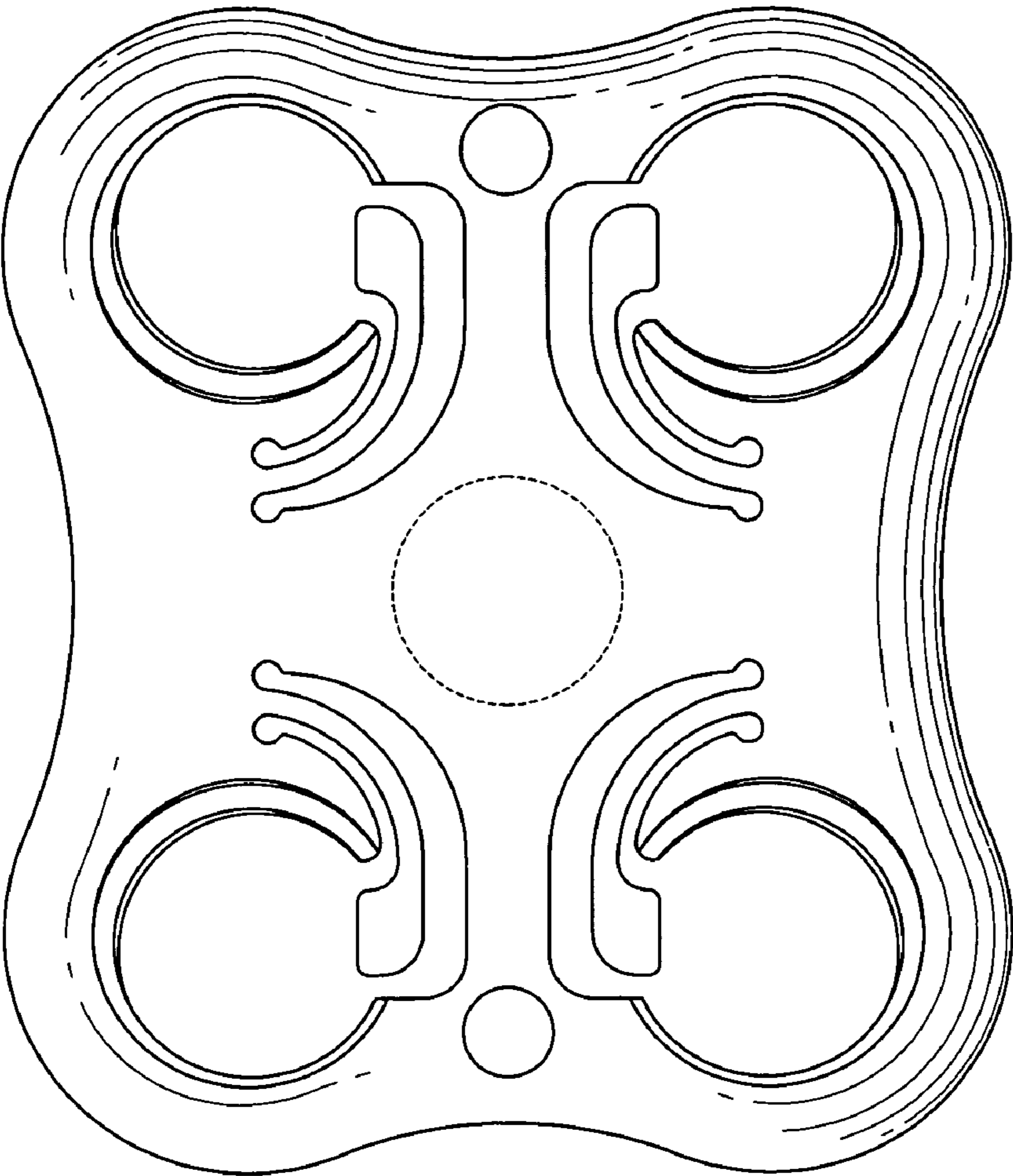


FIG. 2



FIG. 3

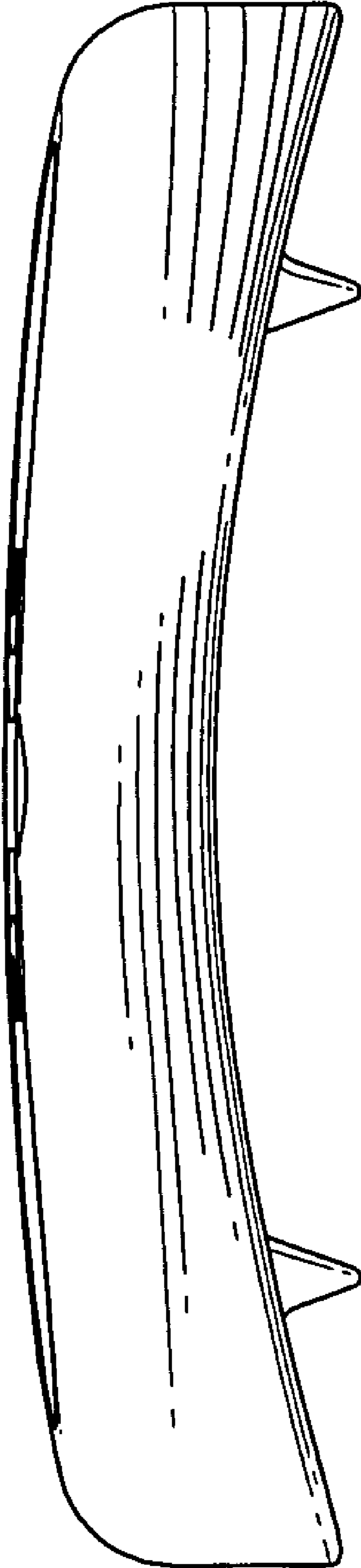


FIG. 4

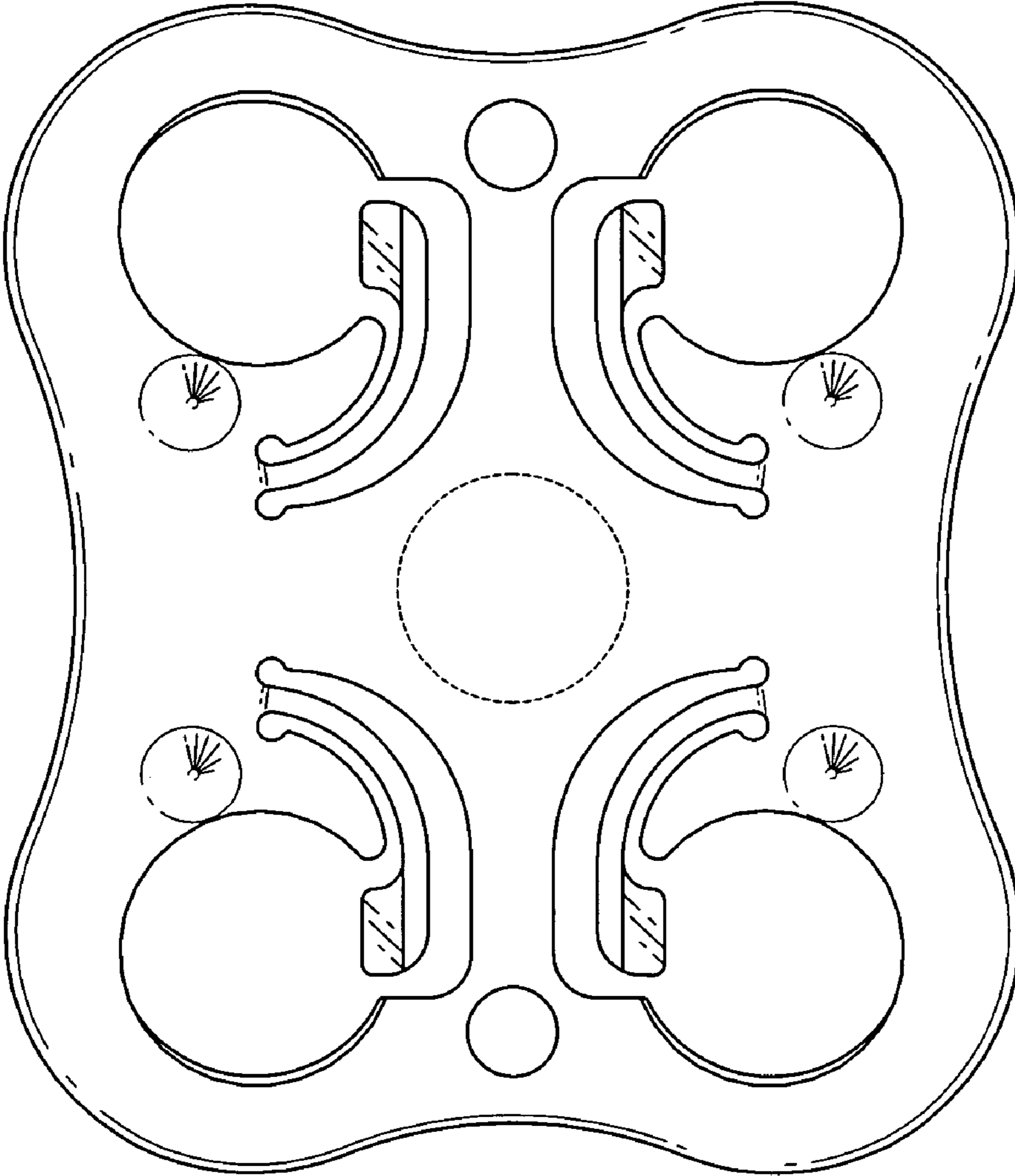


FIG. 5