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(12) **United States Design Patent** (10) **Patent No.:** **US D865,175 S**
Widenhouse et al. (45) **Date of Patent:** **** Oct. 29, 2019**

(54) **STAPLE CARTRIDGE FOR SURGICAL INSTRUMENT**

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(**) Term: **15 Years**

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(51) **LOC (12) Cl.** **24-02**

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

(58) **Field of Classification Search**
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CPC . A61B 17/105; A61B 17/068; A61B 17/0682;
A61B 17/064; A61B 17/072; A61B
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See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

D278,081 S *	3/1985	Green	.....	D24/145
D297,764 S *	9/1988	Hunt	.....	D24/145
5,007,907 A	4/1991	Nishigaki et al.		
5,403,312 A	4/1995	Yates et al.		
D360,688 S *	7/1995	Ferragamo	.....	D24/133
5,485,947 A *	1/1996	Olson	.....	A61B 17/07207 227/176.1
5,658,281 A	8/1997	Heard		

(Continued)

FOREIGN PATENT DOCUMENTS

CA	2843617 A1 *	2/2013	.....	A61B 17/07207
CA	2945445 A1 *	4/2017	.....	A61B 17/068

(Continued)

OTHER PUBLICATIONS

Medtronic. Link: <https://www.medtronic.com/content/dam/covidien/library/us/en/product/surgical-stapling/signia-stapling-system-ibrochure.pdf>. 2017. Signia Stapling System ibrochure. (Year: 2017).*

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Assistant Examiner — Lauren D McVey

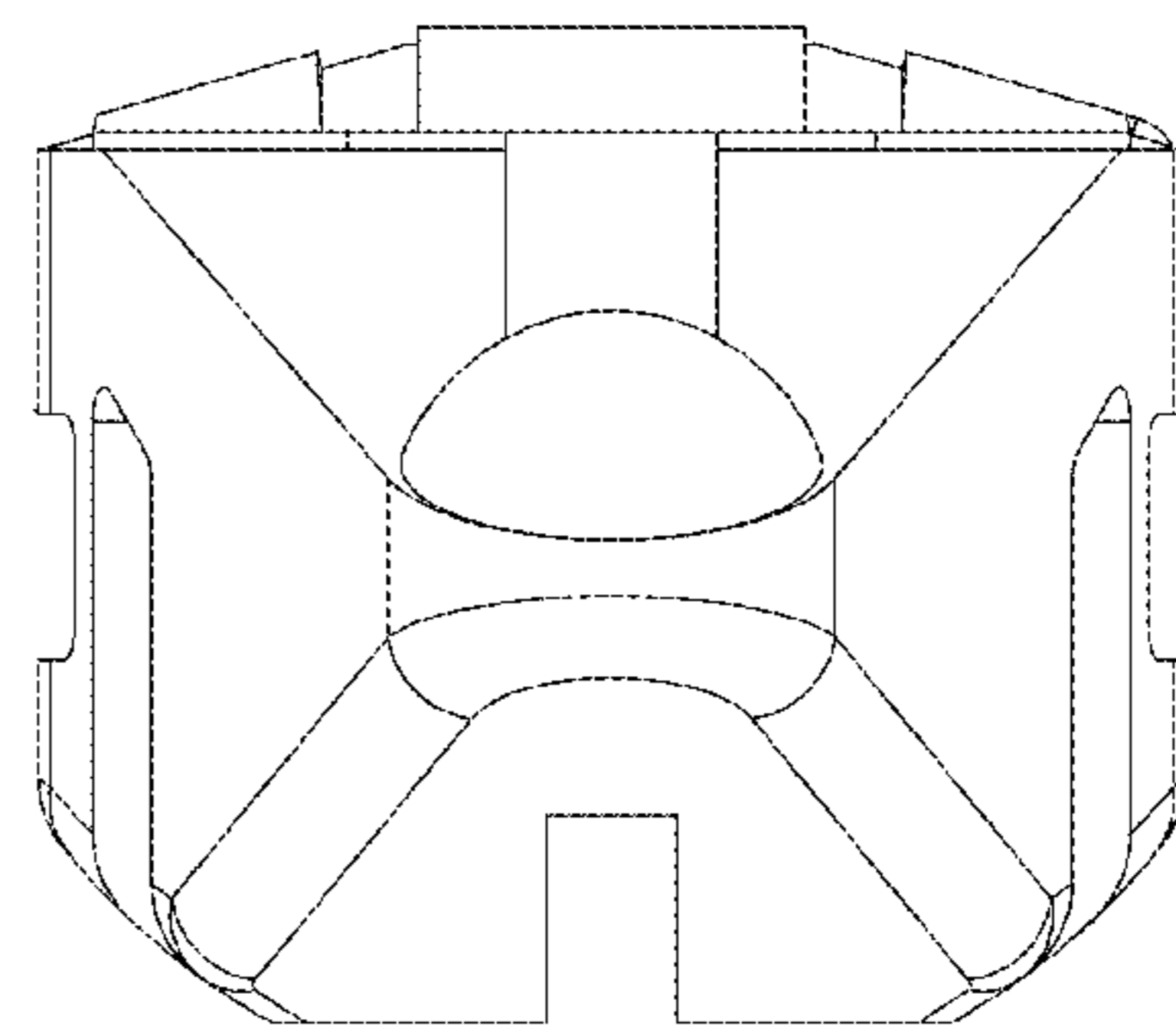
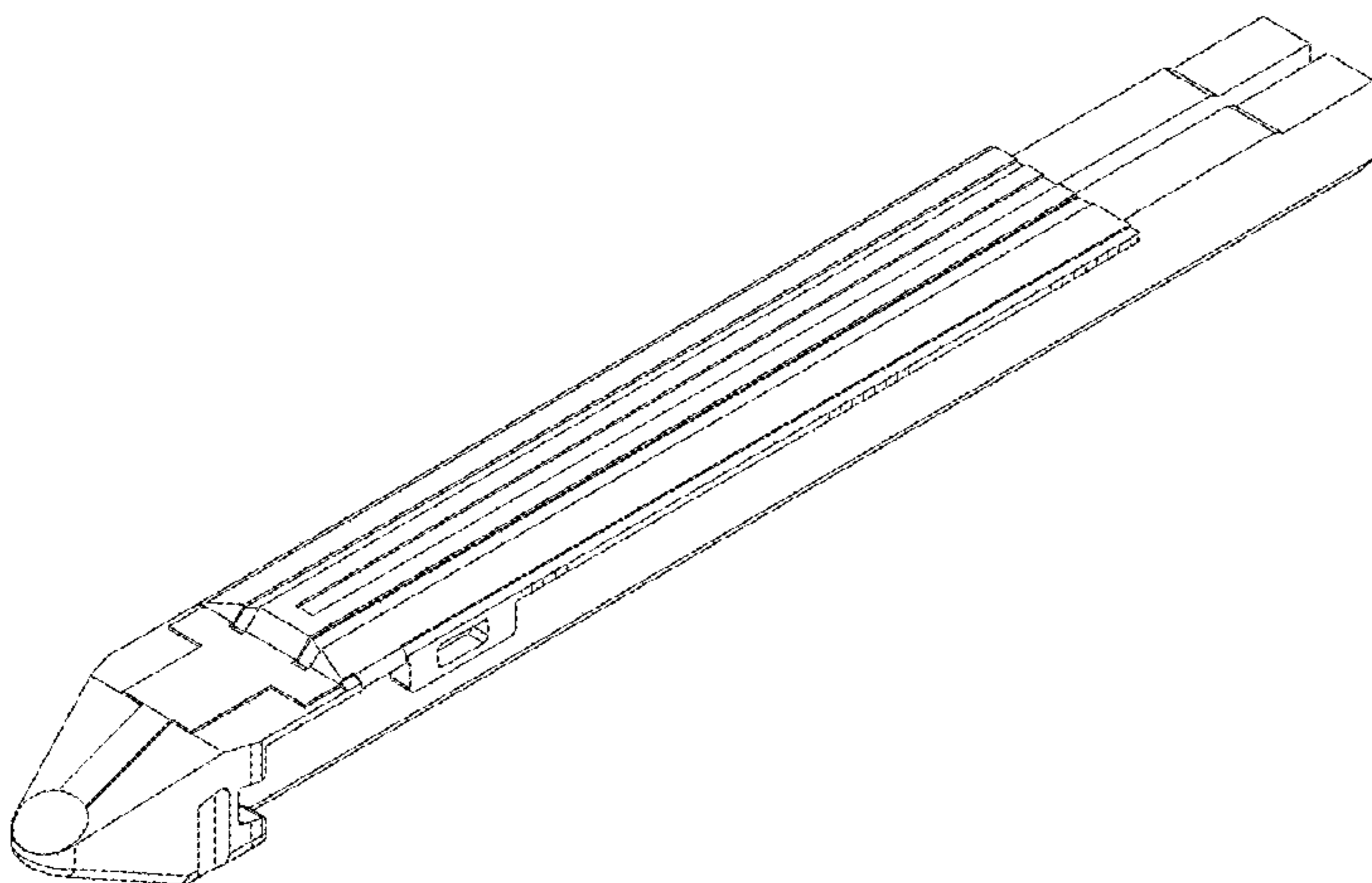
(57) **CLAIM**

The ornamental design for a staple cartridge for surgical instrument, as shown and described.

DESCRIPTION

FIG. 1 is a side perspective view of a first embodiment of a staple cartridge for surgical instrument, showing our new design;
FIG. 2 is a top plan view thereof;
FIG. 3 is a bottom plan view thereof;
FIG. 4 is a side elevation view thereof;
FIG. 5 is another side elevation view thereof;
FIG. 6 is an enlarged front elevation view thereof;
FIG. 7 is an enlarged rear elevation view thereof;
FIG. 8 is a side perspective view of a second embodiment of a staple cartridge for surgical instrument, showing our new design;
FIG. 9 is a top plan view thereof;
FIG. 10 is a bottom plan view thereof;
FIG. 11 is a side elevation view thereof;
FIG. 12 is another side elevation view thereof;
FIG. 13 is an enlarged front elevation view thereof; and,
FIG. 14 is an enlarged rear elevation view thereof.
The wire frame lines shown throughout the views are intended to indicate surface contour.

1 Claim, 8 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

5,735,848 A 4/1998 Yates et al.
 5,817,093 A 10/1998 Williamson, IV et al.
 6,004,320 A 12/1999 Casscells et al.
 D480,808 S * 10/2003 Wells D24/145
 6,730,081 B1 5/2004 Desai
 6,918,906 B2 7/2005 Long
 D509,297 S * 9/2005 Wells D24/145
 7,223,267 B2 5/2007 Isola et al.
 D576,278 S * 9/2008 Nalagatla D24/145
 7,575,144 B2 8/2009 Ortiz et al.
 D605,762 S * 12/2009 Nalagatla D24/145
 7,780,663 B2 8/2010 Yates et al.
 7,819,296 B2 10/2010 Hueil et al.
 7,861,906 B2 1/2011 Doll et al.
 7,896,877 B2 3/2011 Hall et al.
 D650,074 S 12/2011 Hunt et al.
 8,277,446 B2 10/2012 Heard
 8,485,413 B2 7/2013 Scheib et al.
 8,517,239 B2 8/2013 Scheib et al.
 8,608,045 B2 12/2013 Smith et al.
 8,622,274 B2 1/2014 Yates et al.
 8,663,222 B2 3/2014 Anderson et al.
 8,746,533 B2 6/2014 Whitman et al.
 8,764,747 B2 7/2014 Cummings et al.
 8,840,603 B2 9/2014 Shelton, IV et al.
 8,888,771 B2 11/2014 Twomey
 9,060,775 B2 6/2015 Wiener et al.
 9,072,535 B2 7/2015 Shelton, IV et al.
 9,149,325 B2 10/2015 Worrell et al.
 9,326,788 B2 5/2016 Batross et al.
 9,510,906 B2 12/2016 Boudreaux et al.
 9,572,622 B2 2/2017 Shelton, IV et al.
 9,585,657 B2 3/2017 Shelton, IV et al.
 9,629,627 B2 * 4/2017 Kostrzewski A61B 17/0682
 9,743,929 B2 8/2017 Leimbach et al.
 D800,904 S 10/2017 Leimbach et al.
 9,788,836 B2 10/2017 Overmyer et al.
 9,795,379 B2 10/2017 Leimbach et al.
 9,814,514 B2 11/2017 Shelton, IV et al.
 9,839,421 B2 12/2017 Zerkle et al.
 9,844,375 B2 12/2017 Overmyer et al.
 9,877,722 B2 1/2018 Schellin et al.
 D809,659 S 2/2018 Menn
 9,913,642 B2 3/2018 Leimbach et al.
 9,924,944 B2 3/2018 Shelton, IV et al.
 9,924,998 B2 3/2018 Martin et al.
 9,968,355 B2 5/2018 Shelton, IV et al.
 9,980,769 B2 5/2018 Trees et al.
 10,010,366 B2 7/2018 Strobl
 10,016,186 B2 7/2018 Benn
 D831,209 S 10/2018 Huitema et al.
 D836,198 S * 12/2018 Harris D24/145

D836,199 S * 12/2018 Schowalter D24/145
 10,178,992 B2 1/2019 Wise et al.
 10,213,198 B2 2/2019 Aronhalt et al.
 10,238,385 B2 3/2019 Yates et al.
 10,245,027 B2 4/2019 Shelton, IV et al.
 10,265,120 B2 4/2019 Yates et al.
 2004/0122423 A1 6/2004 Dycus et al.
 2006/0064086 A1 3/2006 Odom
 2006/0100644 A1 * 5/2006 Viola A61B 17/07207
 606/142
 2007/0027469 A1 * 2/2007 Smith A61B 17/07207
 606/205
 2009/0206133 A1 8/2009 Morgan et al.
 2010/0193566 A1 8/2010 Scheib et al.
 2011/0028964 A1 2/2011 Edwards
 2012/0245576 A1 9/2012 Epstein et al.
 2014/0263541 A1 9/2014 Leimbach et al.
 2014/0263552 A1 9/2014 Hall et al.
 2015/0060519 A1 3/2015 Shelton, IV et al.
 2015/0297235 A1 10/2015 Harris et al.
 2015/0297236 A1 10/2015 Harris et al.
 2016/0120545 A1 5/2016 Shelton, IV et al.
 2016/0270842 A1 9/2016 Strobl et al.
 2017/0105782 A1 4/2017 Scheib et al.
 2017/0105786 A1 4/2017 Scheib et al.
 2017/0312019 A1 11/2017 Trees et al.
 2018/0168621 A1 6/2018 Shelton, IV et al.
 2018/0168650 A1 6/2018 Shelton, IV et al.
 2018/0360452 A1 12/2018 Shelton, IV et al.
 2019/0000463 A1 1/2019 Shelton, IV et al.
 2019/0000464 A1 1/2019 Shelton, IV et al.
 2019/0000468 A1 1/2019 Adams et al.
 2019/0000472 A1 1/2019 Shelton, IV et al.
 2019/0000478 A1 1/2019 Messerly et al.
 2019/0000479 A1 1/2019 Harris et al.
 2019/0000525 A1 1/2019 Messerly et al.
 2019/0000531 A1 1/2019 Messerly et al.
 2019/0000532 A1 1/2019 Shelton, IV et al.
 2019/0000533 A1 1/2019 Messerly et al.
 2019/0000534 A1 1/2019 Messerly et al.
 2019/0000535 A1 1/2019 Messerly et al.
 2019/0000537 A1 1/2019 Widenhouse et al.
 2019/0000538 A1 1/2019 Widenhouse et al.
 2019/0000539 A1 1/2019 Messerly et al.

FOREIGN PATENT DOCUMENTS

EP 2243439 A1 10/2010
 EP 3015080 A2 * 5/2016 A61B 17/07207
 EP 3123950 A1 * 2/2017 A61B 17/07207
 EP 3123951 A1 * 2/2017 A61B 17/07207
 JP 2018099526 A * 6/2018 A61B 17/0682
 WO WO-9937225 A1 7/1999
 WO WO-2015174984 A1 * 11/2015 A61B 17/07207

* cited by examiner

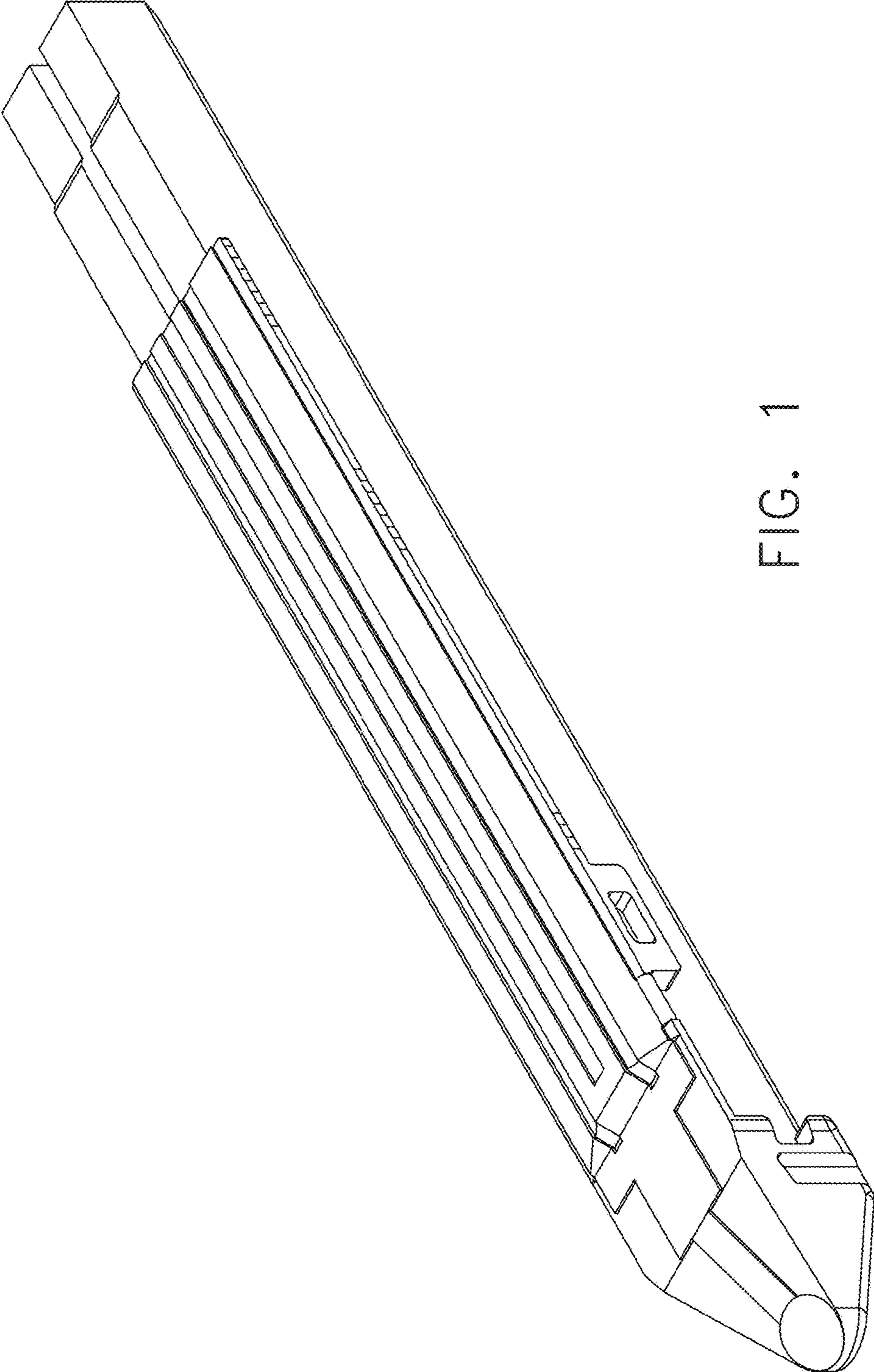


FIG. 1

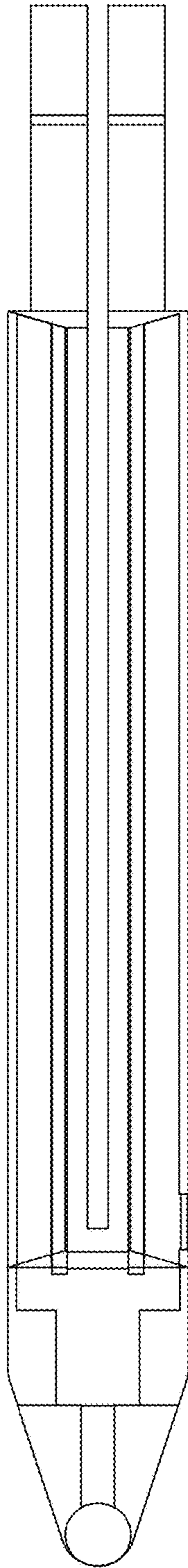


FIG. 2

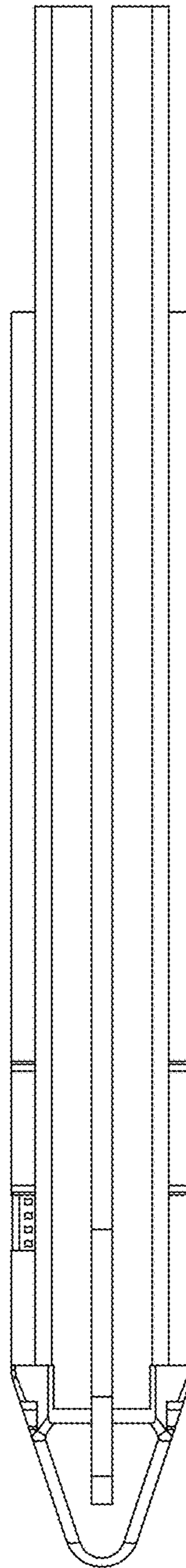


FIG. 3

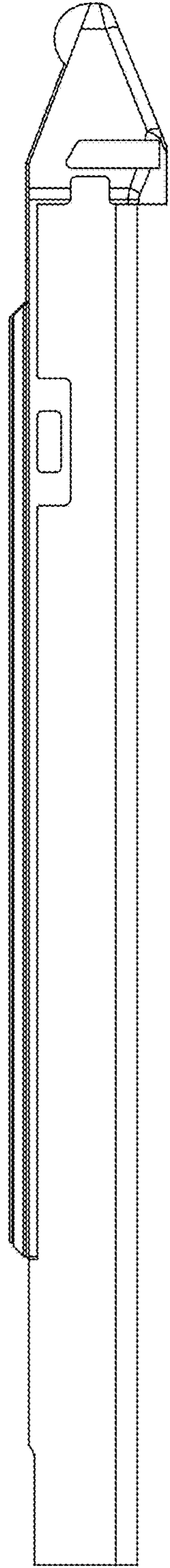


FIG. 4

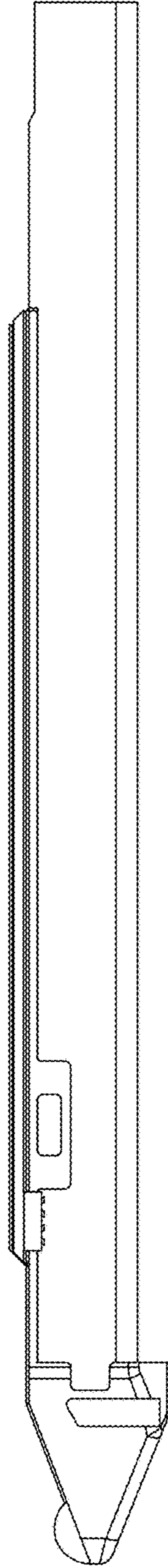


FIG. 5

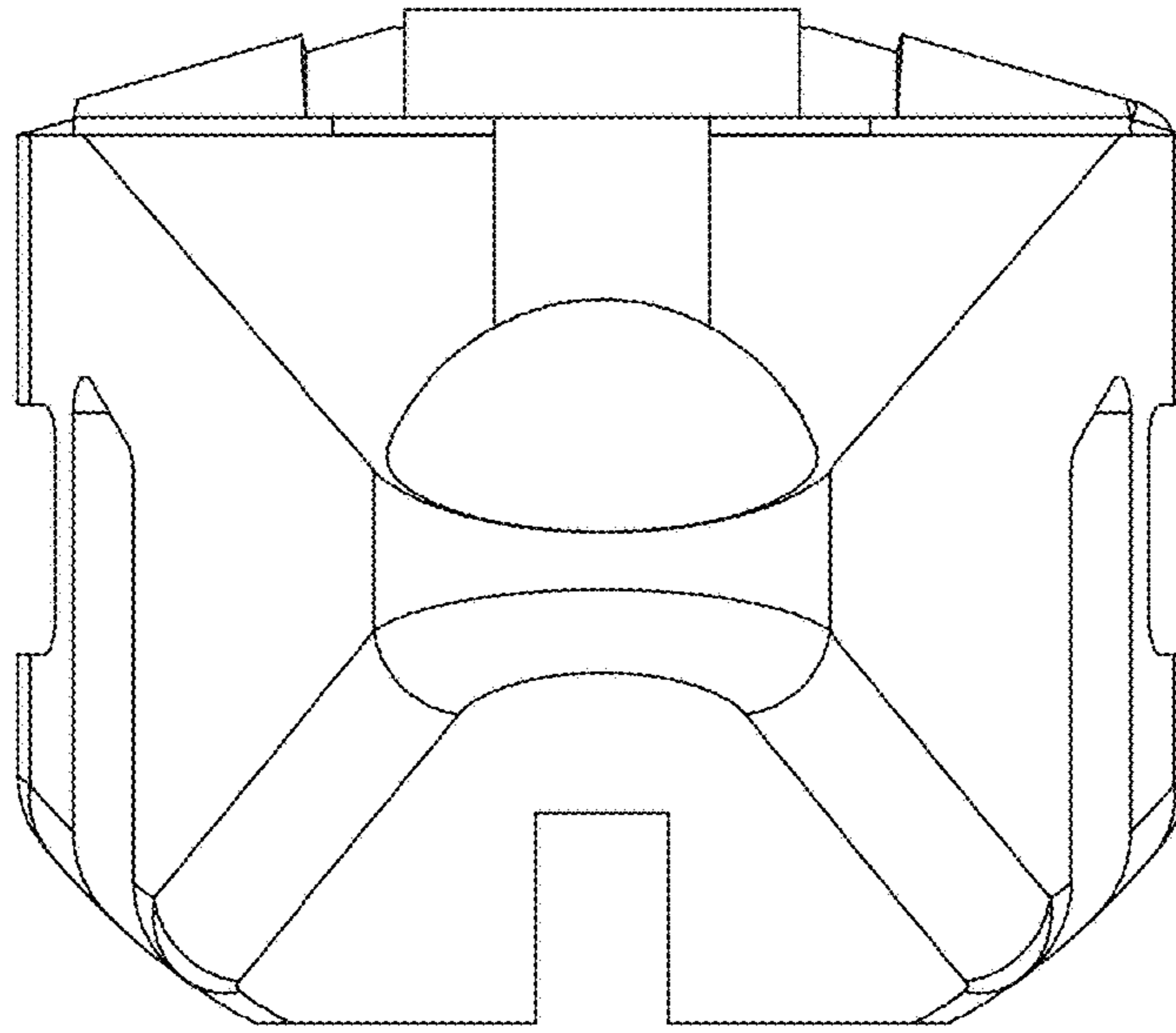


FIG. 6

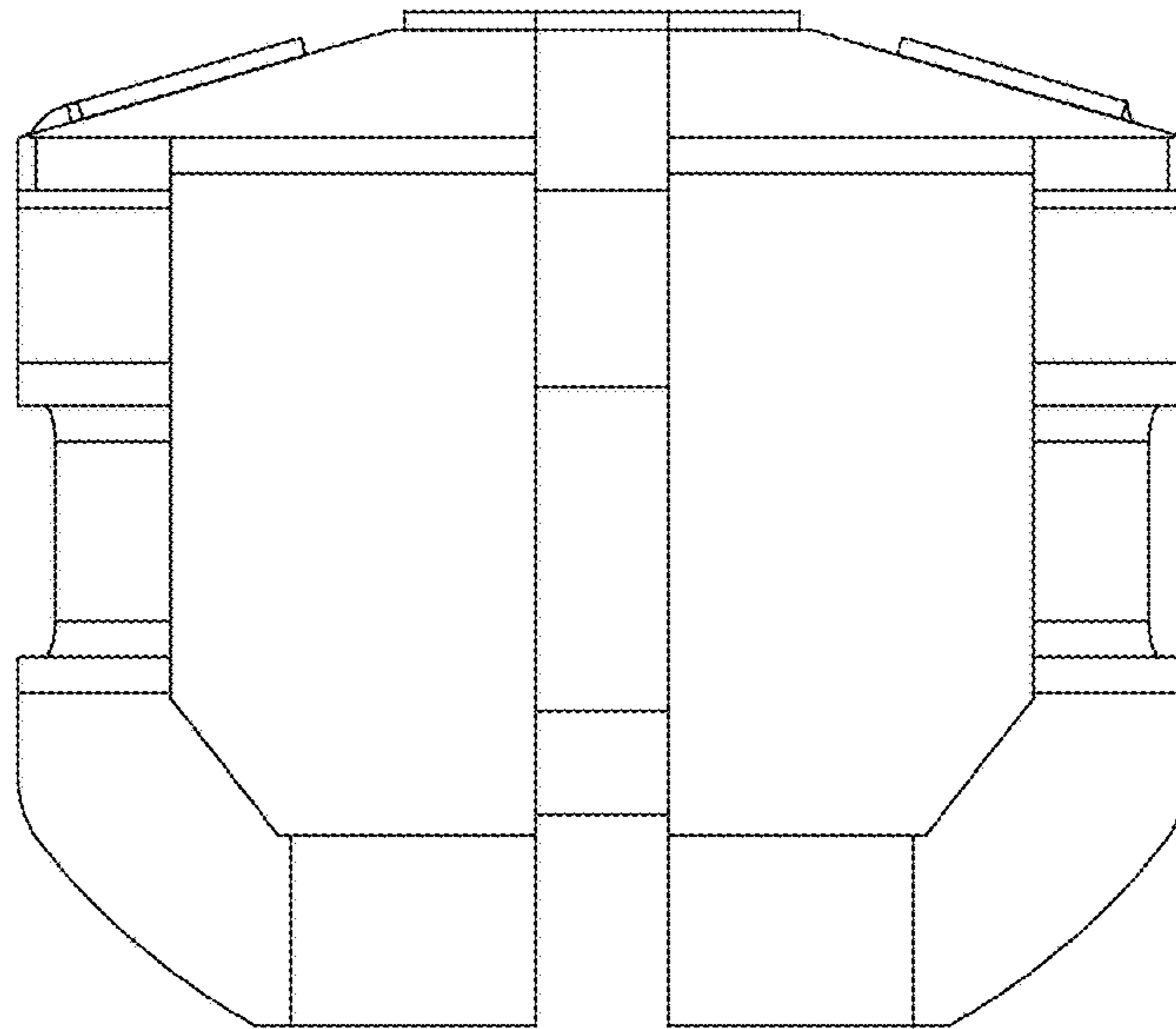


FIG. 7

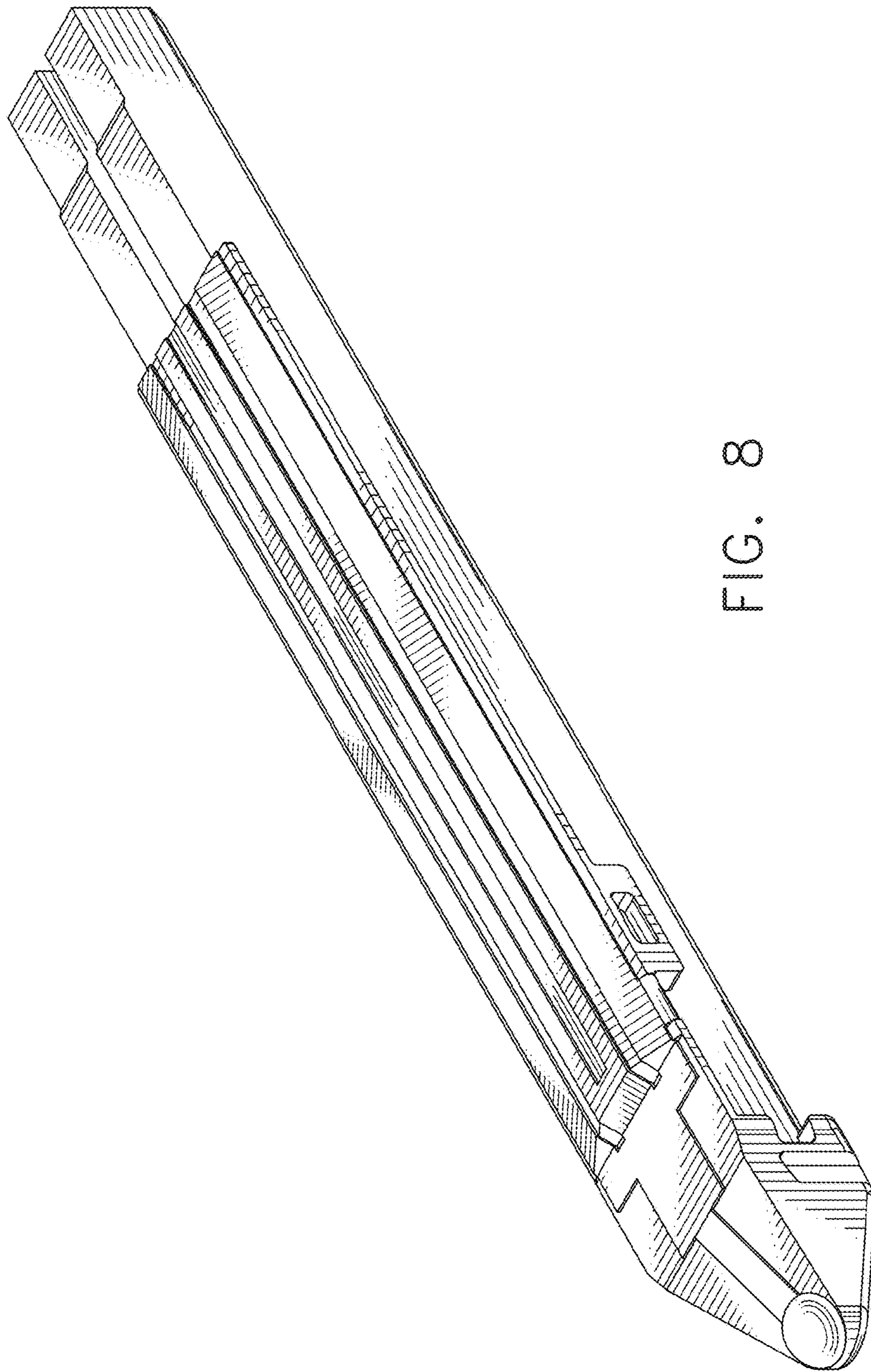


FIG. 8

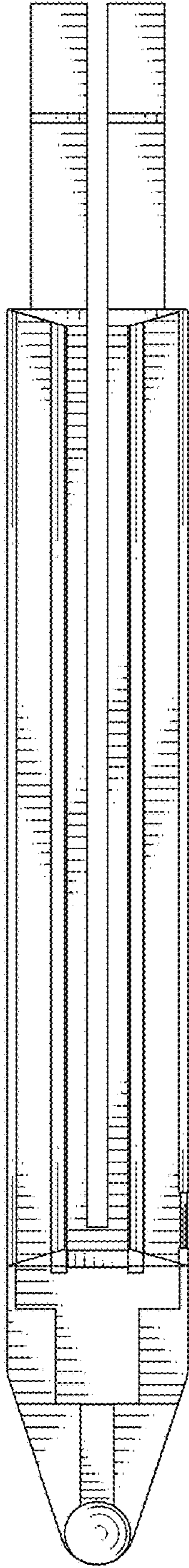


FIG. 9

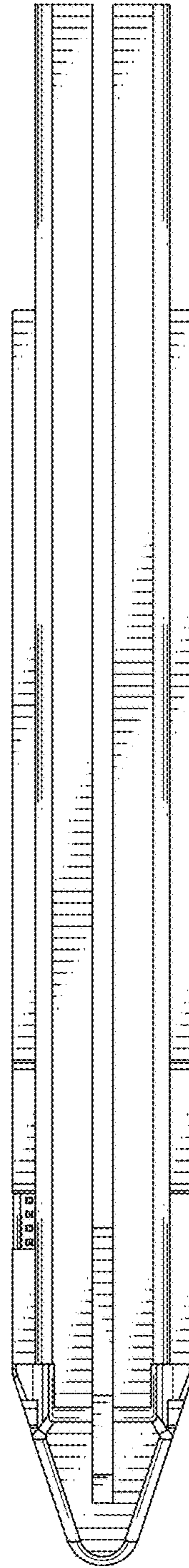


FIG. 10

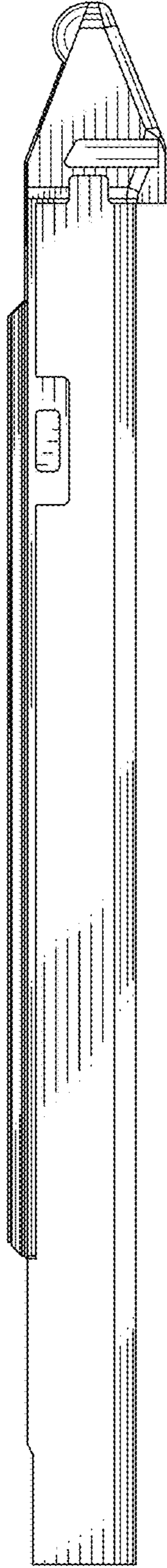


FIG. 11

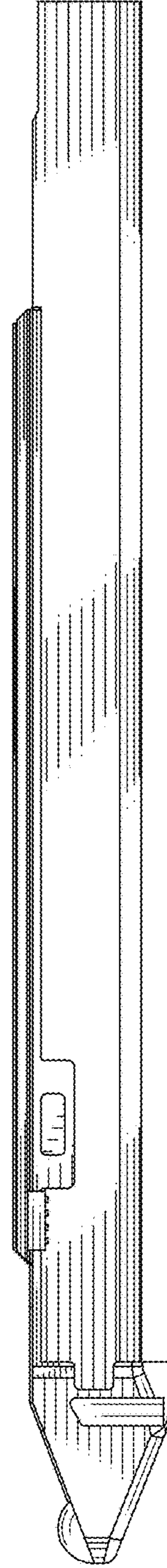


FIG. 12

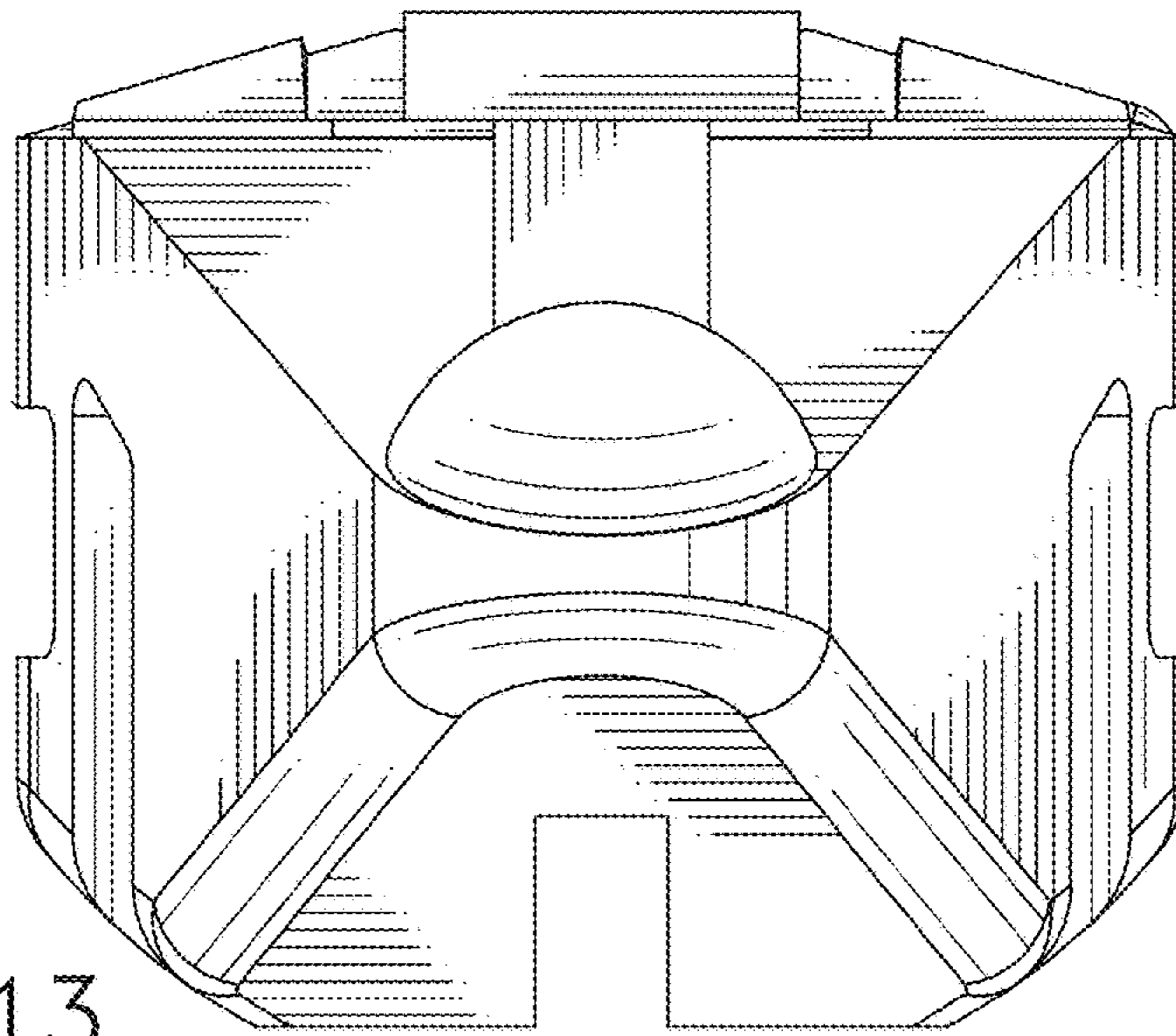


FIG. 13

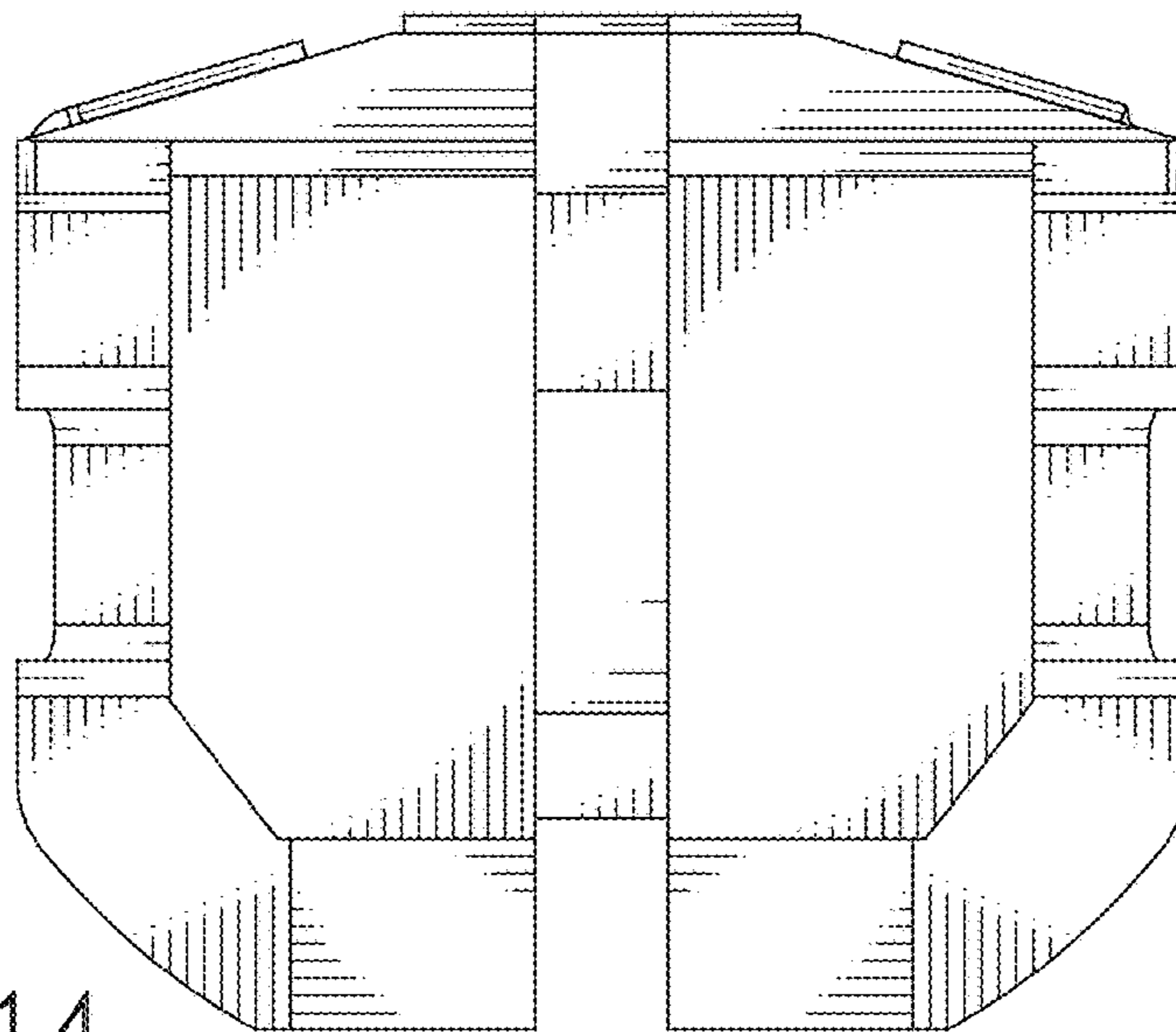


FIG. 14