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(12) **United States Design Patent** (10) **Patent No.:** **US D822,830 S**
Aten et al. (45) **Date of Patent:** **** Jul. 10, 2018**

(54) **CATHETER RETENTION DEVICE**
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D331,462 S * 12/1992 Kraus D24/143
5,183,464 A 2/1993 Dubrul et al.
5,356,390 A 10/1994 Erskine et al.
(Continued)

FOREIGN PATENT DOCUMENTS

DE 69633411 T2 10/2005
WO 1999052481 A1 10/1999
(Continued)

OTHER PUBLICATIONS

Asico.com, Akahoshi Curved Ball I/A Tip, video dated Jun. 2013, online product page and demo video, retrieved Sep. 24, 2017 from <URL:http://www.asico.com/products/cannula/i-a/akahoshi-curved-ball-i-a-tip.html#.WceAU_krlb9> (Year:2013).
(Continued)

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(52) **U.S. Cl.**
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CPC A61M 25/00; A61M 25/0014; A61M 25/0097; A61M 25/0026
See application file for complete search history.

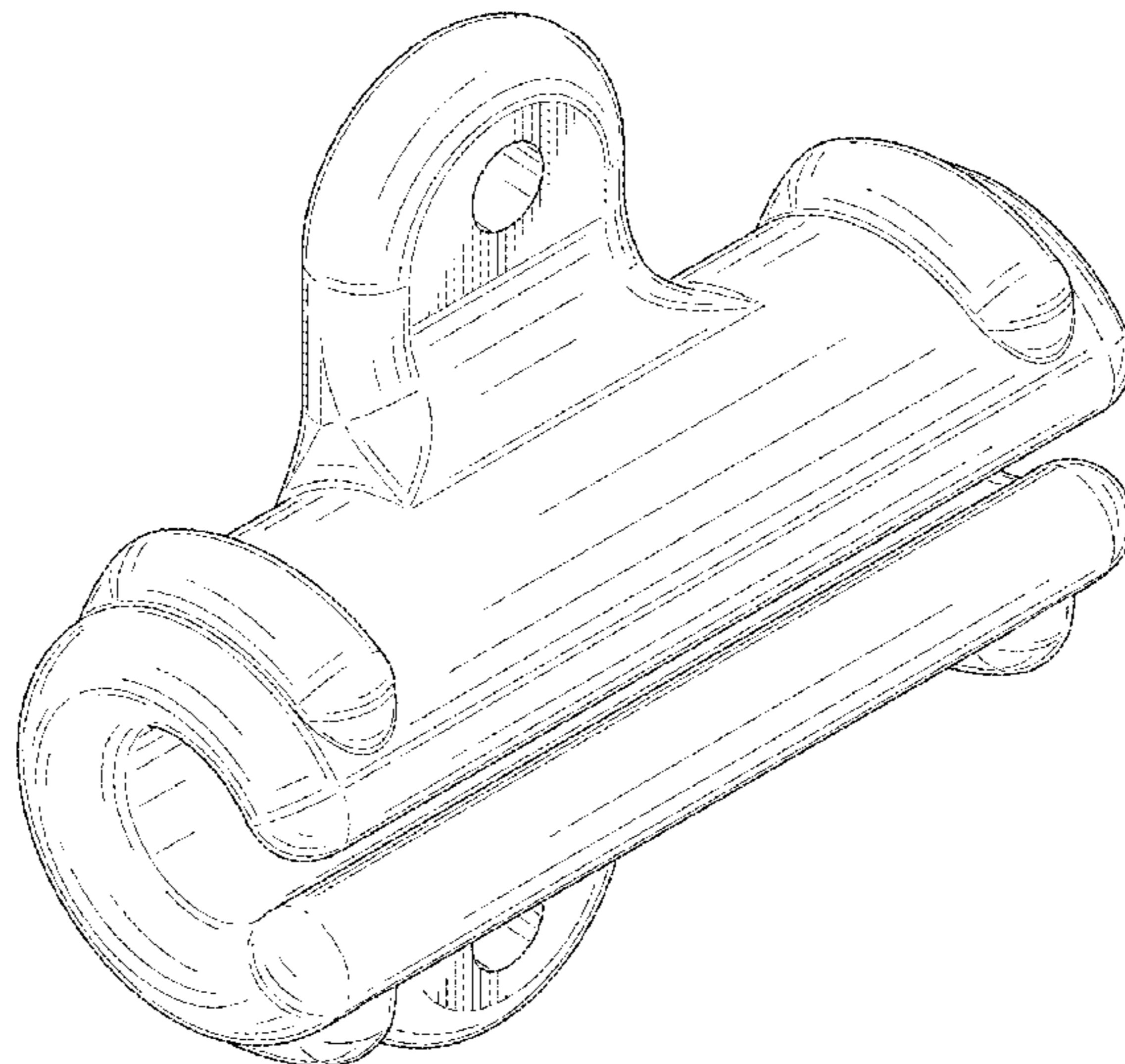
(57) **CLAIM**
The ornamental design for a catheter retention device, as shown and described.

DESCRIPTION

FIG. 1 is a front perspective view of a catheter retention device showing our new design.
FIG. 2 is a rear perspective view thereof.
FIG. 3 is a front view thereof.
FIG. 4 is a rear view thereof.
FIG. 5 is a left-side view thereof.
FIG. 6 is a right-side view thereof.
FIG. 7 is a rear view thereof; and,
FIG. 8 is a top view thereof; and,
FIG. 9 is a perspective view of our design in use.
The broken lines are shown for environmental purposes only and form no part of the claimed design.

(56) **References Cited**
U.S. PATENT DOCUMENTS
4,149,535 A 4/1979 Volder et al.
D257,567 S 11/1980 Peacock
D263,445 S 3/1982 Gordin
4,318,401 A 3/1982 Zimmerman
4,464,178 A 8/1984 Dalton
4,475,898 A 10/1984 Brodner et al.
4,631,051 A 12/1986 Harris et al.
4,846,186 A 7/1989 Box et al.
4,950,232 A 8/1990 Ruzicka et al.

1 Claim, 9 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

5,370,640 A 12/1994 Kolff
 5,385,541 A 1/1995 Kirsch et al.
 D356,161 S * 3/1995 Peterson D24/199
 5,398,679 A * 3/1995 Freed A61M 16/0488
 128/207.17
 D383,968 S * 9/1997 Bidwell D8/356
 5,704,352 A 1/1998 Buckles et al.
 5,762,615 A 6/1998 Weier et al.
 5,916,193 A 6/1999 Stevens et al.
 5,944,732 A 8/1999 Raulerson et al.
 5,980,504 A 11/1999 Sharkey et al.
 6,007,510 A 12/1999 Nigam et al.
 6,007,544 A 12/1999 Kim
 6,197,041 B1 3/2001 Shichman et al.
 6,267,769 B1 7/2001 Truwit et al.
 6,655,386 B1 12/2003 Makower et al.
 6,902,547 B2 6/2005 Aves et al.
 7,134,438 B2 11/2006 Makower et al.
 7,189,222 B2 3/2007 Elsberry et al.
 D547,865 S * 7/2007 Schoellhorn D24/135
 D557,410 S * 12/2007 Guney D24/110.1
 D557,802 S * 12/2007 Miceli, Jr. D24/110.6
 7,678,100 B2 3/2010 Chin et al.
 D614,289 S * 4/2010 Veliss D24/110.1
 7,942,826 B1 5/2011 Scholl et al.
 D640,788 S 6/2011 Appling
 8,177,772 B2 5/2012 Christensen et al.
 D672,004 S * 12/2012 Stracener D22/108
 8,337,475 B2 12/2012 Smith et al.
 D679,811 S 4/2013 Hahn
 D692,133 S 10/2013 Steinwachs
 D694,406 S 11/2013 Hahn
 D700,318 S 2/2014 Amoah
 D706,083 S * 6/2014 Kyuba D7/620
 8,768,487 B2 7/2014 Farnan et al.
 8,784,330 B1 7/2014 Scholl et al.
 D733,880 S 7/2015 Mueller
 D744,649 S 12/2015 Brannon
 D747,636 S * 1/2016 Maher D8/72
 D761,961 S 7/2016 Tan
 D765,245 S 8/2016 Kamal
 9,427,558 B2 8/2016 Arnott et al.
 D767,127 S 9/2016 De Beer
 D771,812 S 11/2016 Shayle
 D772,411 S 11/2016 Heath
 D773,664 S 12/2016 Deneui
 D775,355 S 12/2016 Georgian
 D775,723 S 1/2017 Rowe
 D776,277 S 1/2017 Prendergast
 D778,443 S 2/2017 Brannon
 D786,433 S 5/2017 Seaver
 9,682,221 B2 6/2017 Arnott et al.
 D804,659 S * 12/2017 Hood D24/128
 2002/0121282 A1 9/2002 McGuckin et al.
 2005/0054948 A1 3/2005 Goldenberg
 2005/0171452 A1 8/2005 Neff et al.
 2007/0179426 A1 8/2007 Selden et al.

2008/0051721 A1 2/2008 Carter et al.
 2008/0161843 A1 7/2008 Clague et al.
 2008/0194993 A1 8/2008 McLaren et al.
 2008/0262406 A1 10/2008 Wiener et al.
 2009/0048537 A1 2/2009 Lydon et al.
 2009/0171367 A1 7/2009 Hardin et al.
 2010/0179483 A1 * 7/2010 Wright A61M 5/158
 604/180
 2010/0211048 A1 8/2010 Arai et al.
 2010/0222732 A1 9/2010 Sevrain et al.
 2013/0267982 A1 10/2013 Seaver et al.

FOREIGN PATENT DOCUMENTS

WO 2007089724 A2 8/2007
 WO 2013147978 A2 10/2013

OTHER PUBLICATIONS

HomeDepot.com, Klein Tools 200 ft. Multi-Groove Non-Conduc-
 tive Fiberglass Fish Tape, available on Archive.org Sep. 2015,
 Retrieved Sep. 24, 2017 from <URL:http://www.homedepot.com/
 p.Klein-Tools-200-ft-Multi-Groove-Non_Conductive-Fiberglass-
 Fish-Tape-560", 59/205595580> (Year: 2015).
 Hull Anesthesia, CoPilot VL Reusable Stylet, Nov. 2016, online
 product page, retrieved Sep. 24, 2017 from <URL:https://web.
 archive.org/web/20160817114051/http://www.hullanesthesia.com/
 p/982/copilot-vl-reusable-stylet> (Year: 2016).
 Restriction Requirement issued in co-pending U.S. Appl. No.
 29/582,461, dated Oct. 16, 2017.
 Restriction Requirement issued in co-pending U.S. Appl. No.
 29/582,463, dated Oct. 16, 2017
 Harrison et al., "Guidewire Stiffness: What's in a Name?," J.
 Endovasc. Ther., 2011, vol. 18, pp. 797-801.
 European Supplementary Search Report conducted in European
 Application No. 15765234.8, dated Nov. 3, 2017.
 Ex Parte Quayle Action issued in co-pending U.S. Appl. No.
 29/581,461, dated Feb. 22, 2018 (14 pages).
 BassPro.com, Offshore Angler 3-1/2" Handy Hook, undated online
 product page, retrieved Feb. 1, 2018 from <URL:https://www.
 basspro.com/shop/en/offshore-angler-3-1-2-handly-hook?> (Year:
 2018).
 Sandquist, "A Single-Pass Tunneling Technique for CSF Shunting
 Procedures", Pediatric Neurosurgery, 2003, 39: 254-257.
 Office Action dated Dec. 31, 2015, issued in U.S. Appl. No.
 14/660,616.
 Office Action dated Sep. 27, 2016, issued in U.S. Appl. No.
 15/237,024.
 Restriction Requirement dated Jun. 29, 2017, issued in Design U.S.
 Appl. No. 29/522,886.
 International Search Report and Written Opinion issued in Interna-
 tional Application No. PCT/US2015/020979, dated Jun. 26, 2015.
 International Preliminary Report on Patentability issued in Interna-
 tional Application No. PCT/US2015/020979, dated Sep. 20, 2016.
 Notice of Allowance dated Mar. 28, 2017, issued in U.S. Appl. No.
 29/553,272.

* cited by examiner

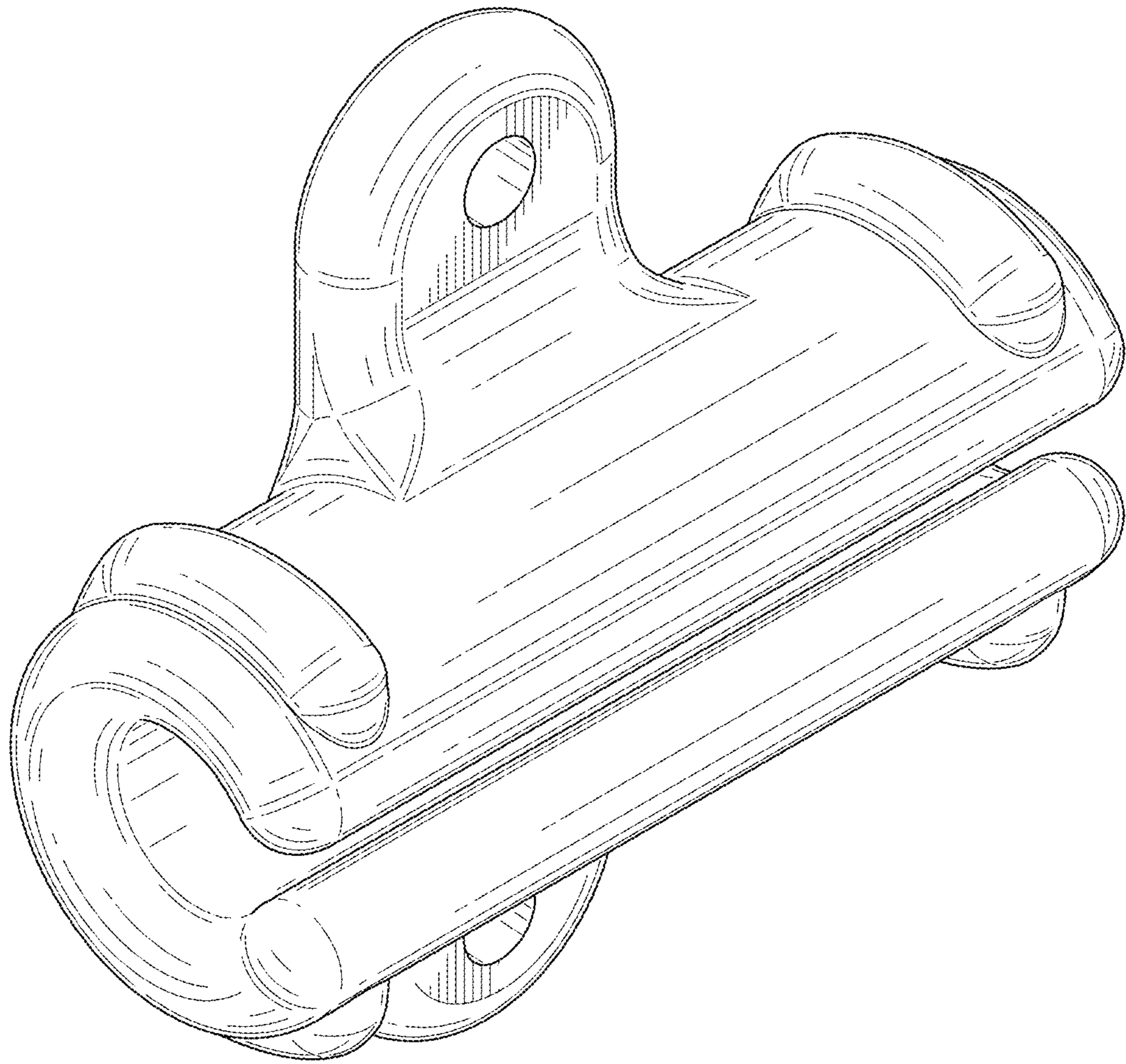


FIG. 1

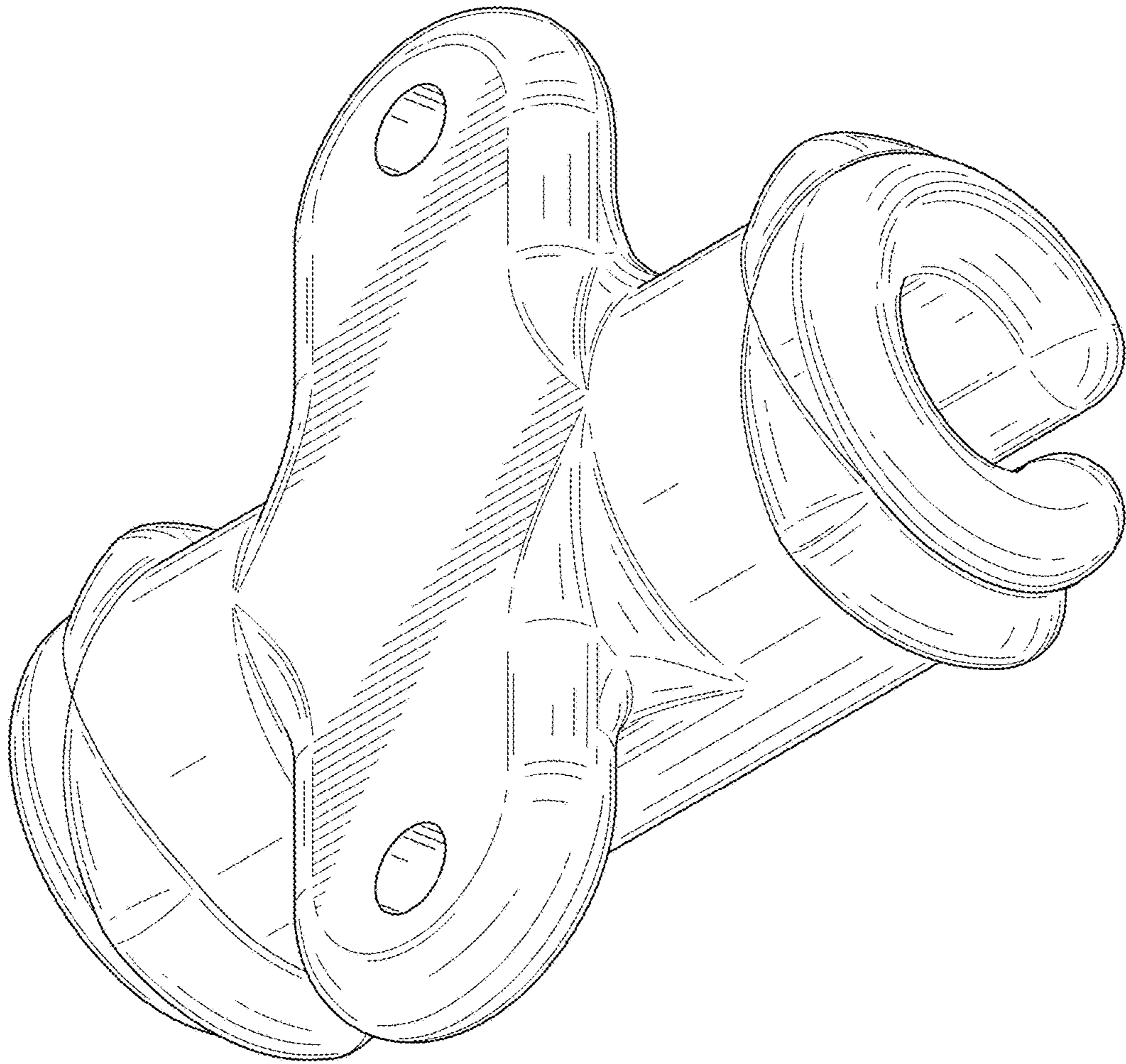


FIG. 2

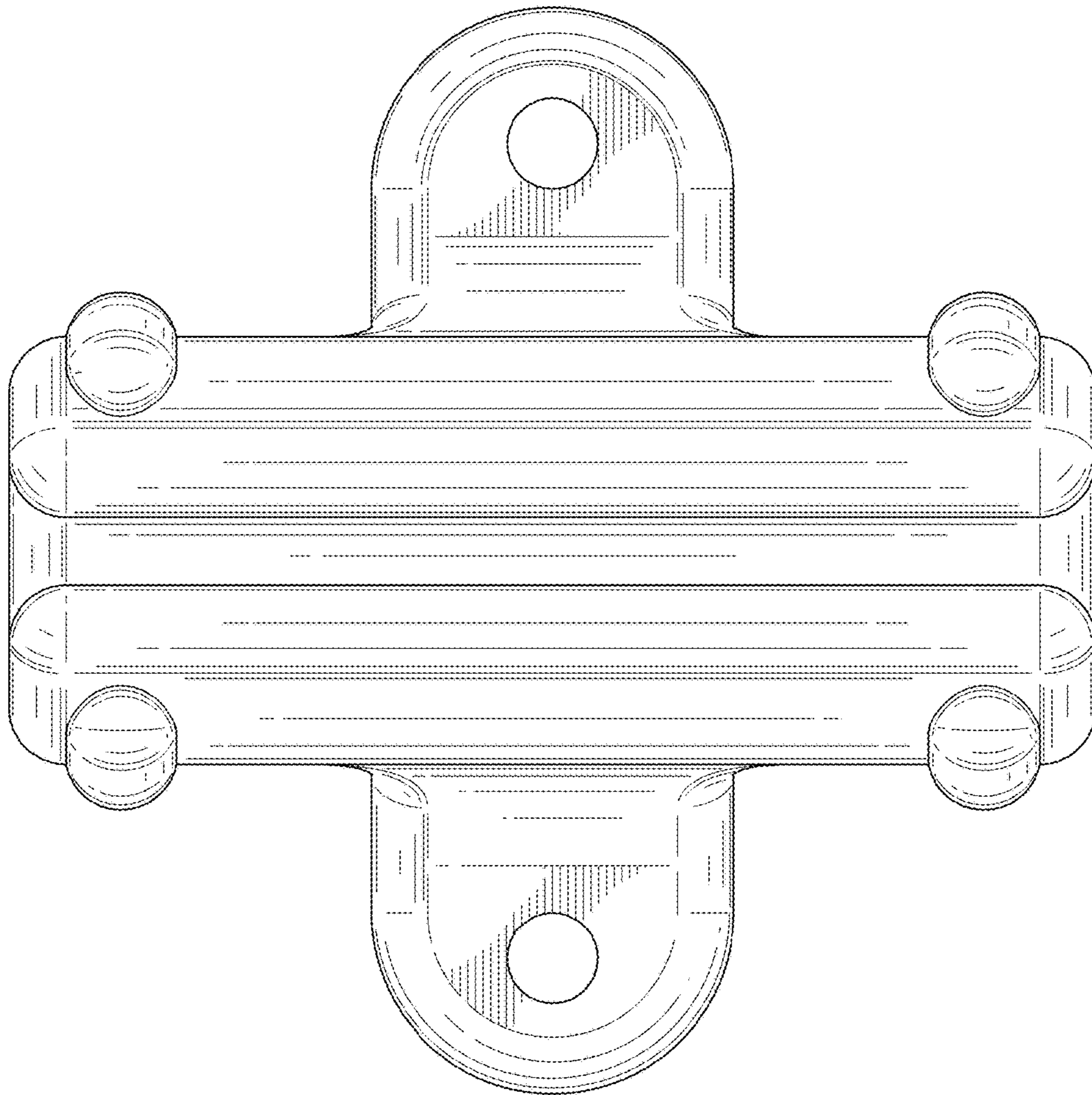


FIG. 3

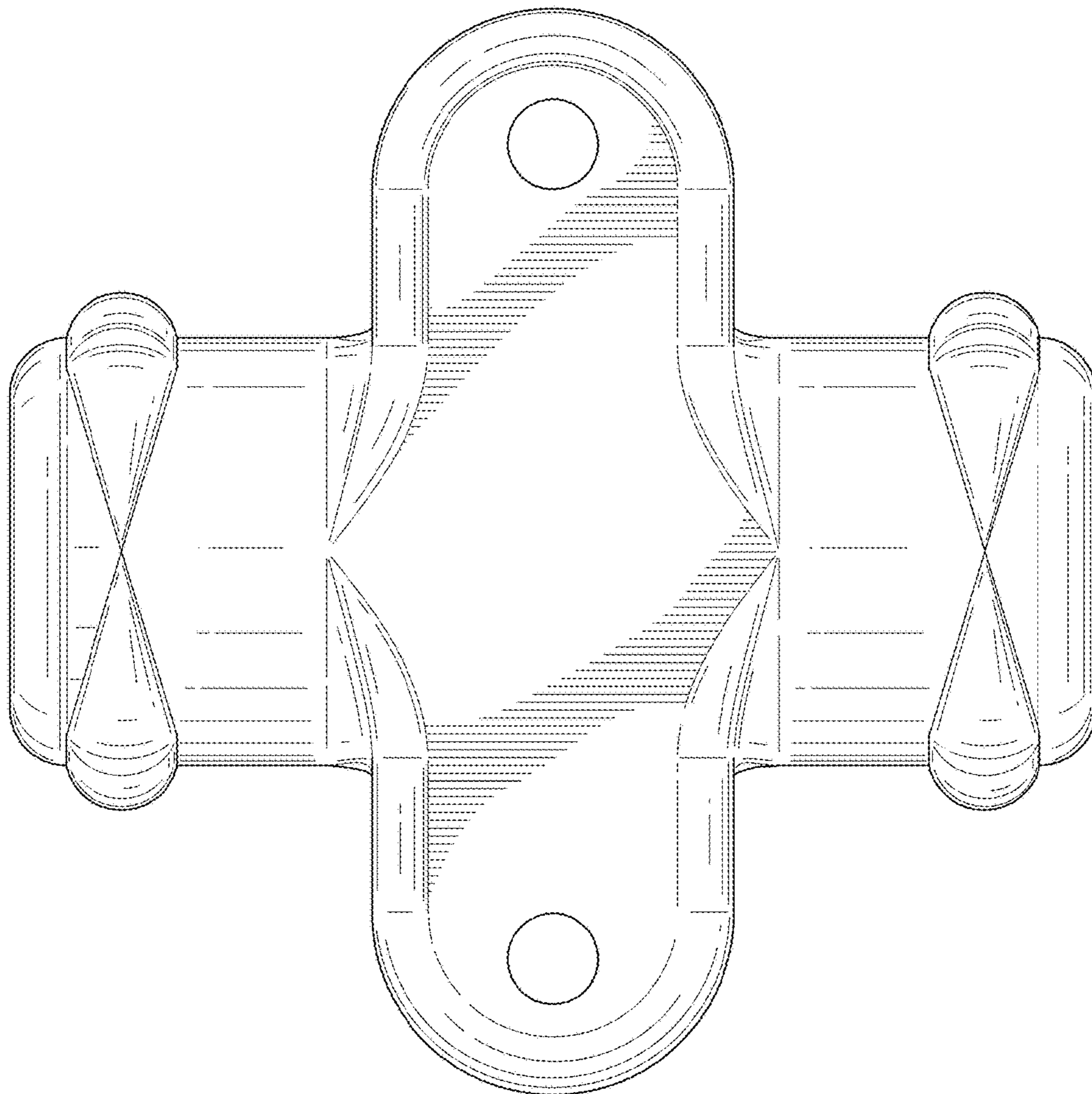


FIG. 4

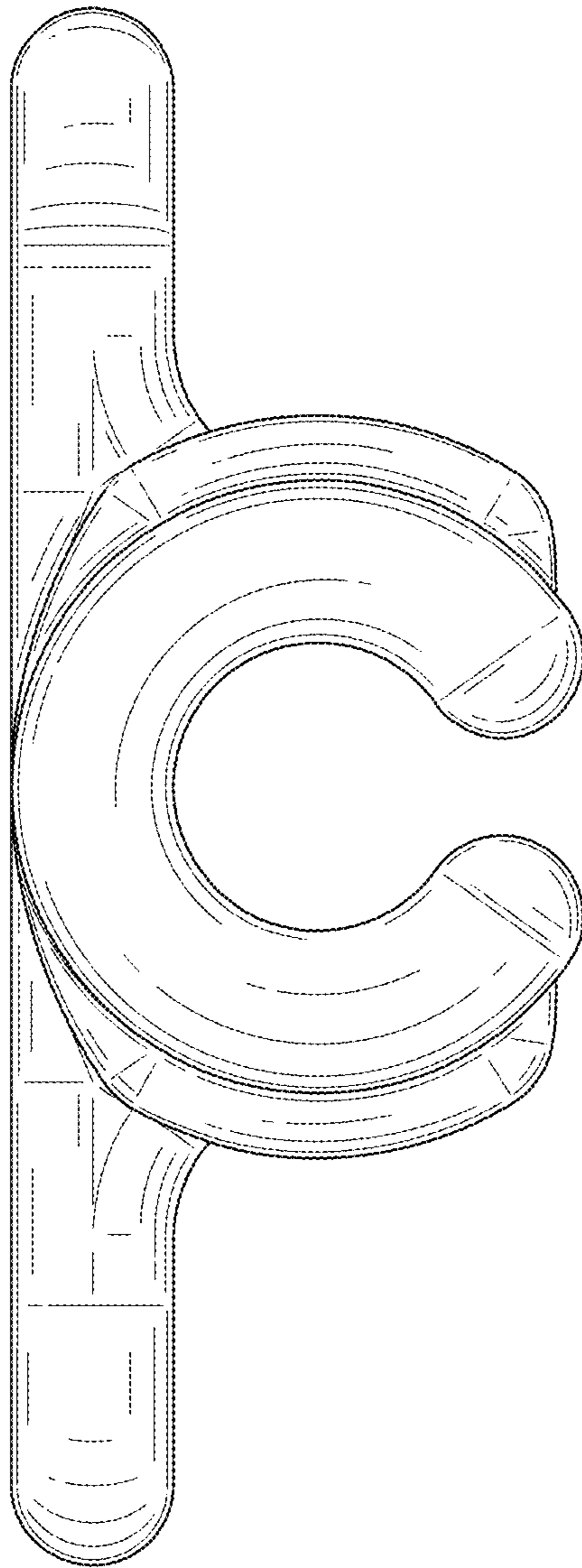


FIG. 5

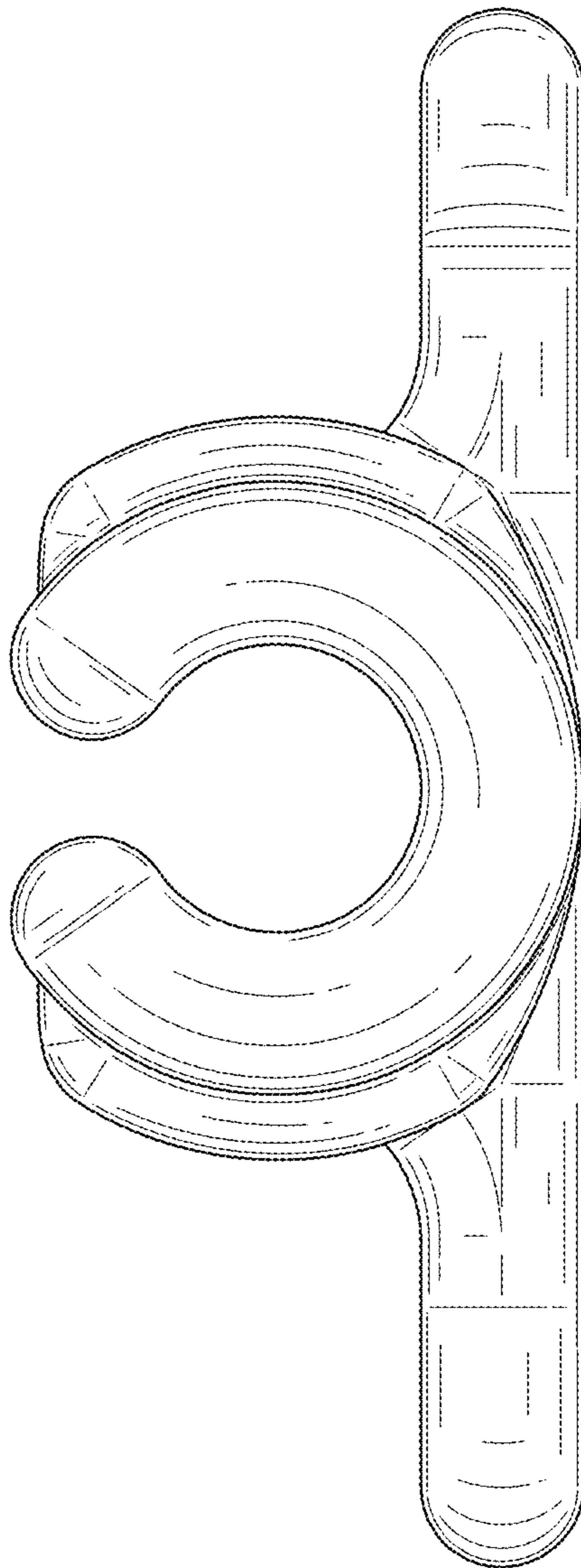


FIG. 6

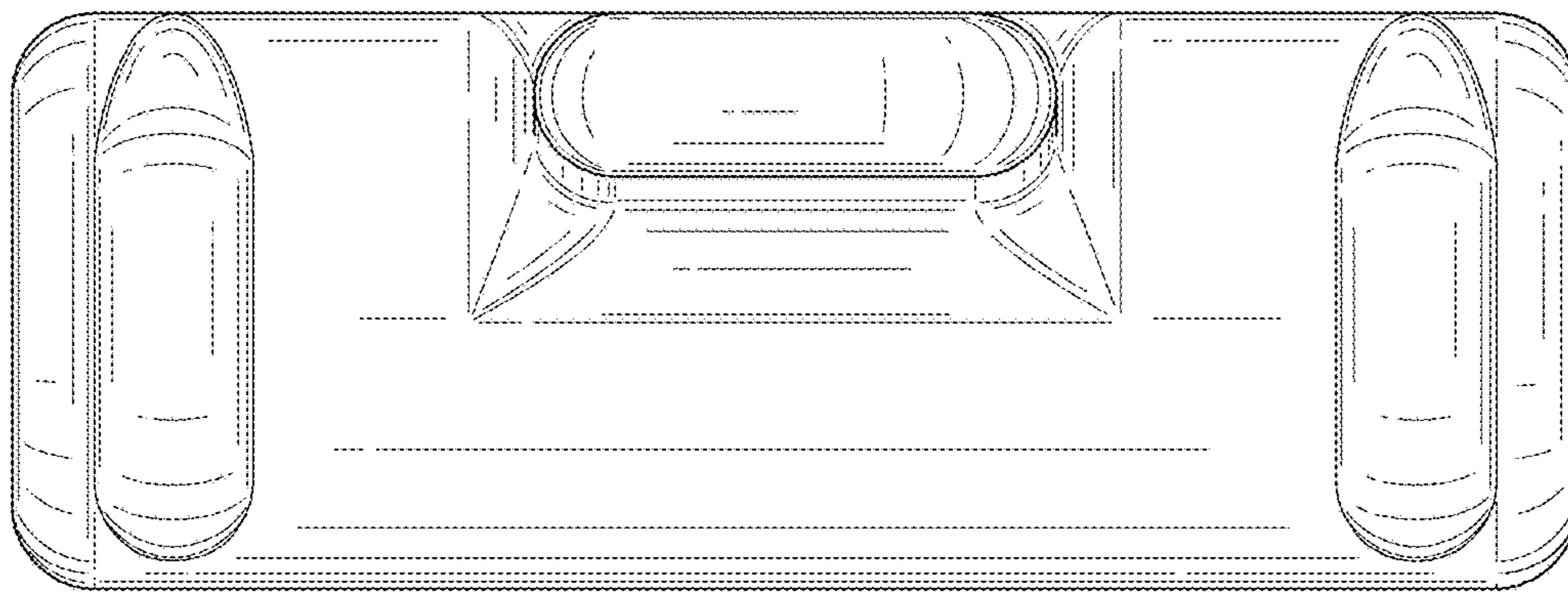


FIG. 7

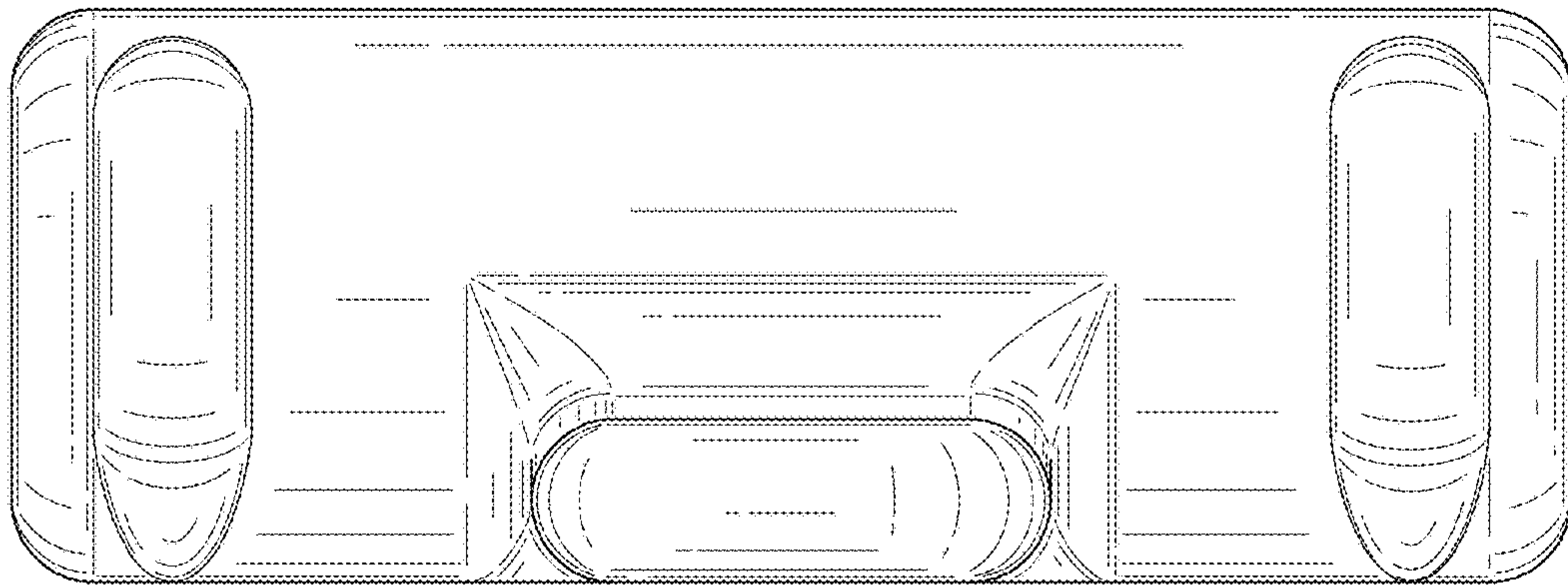


FIG. 8

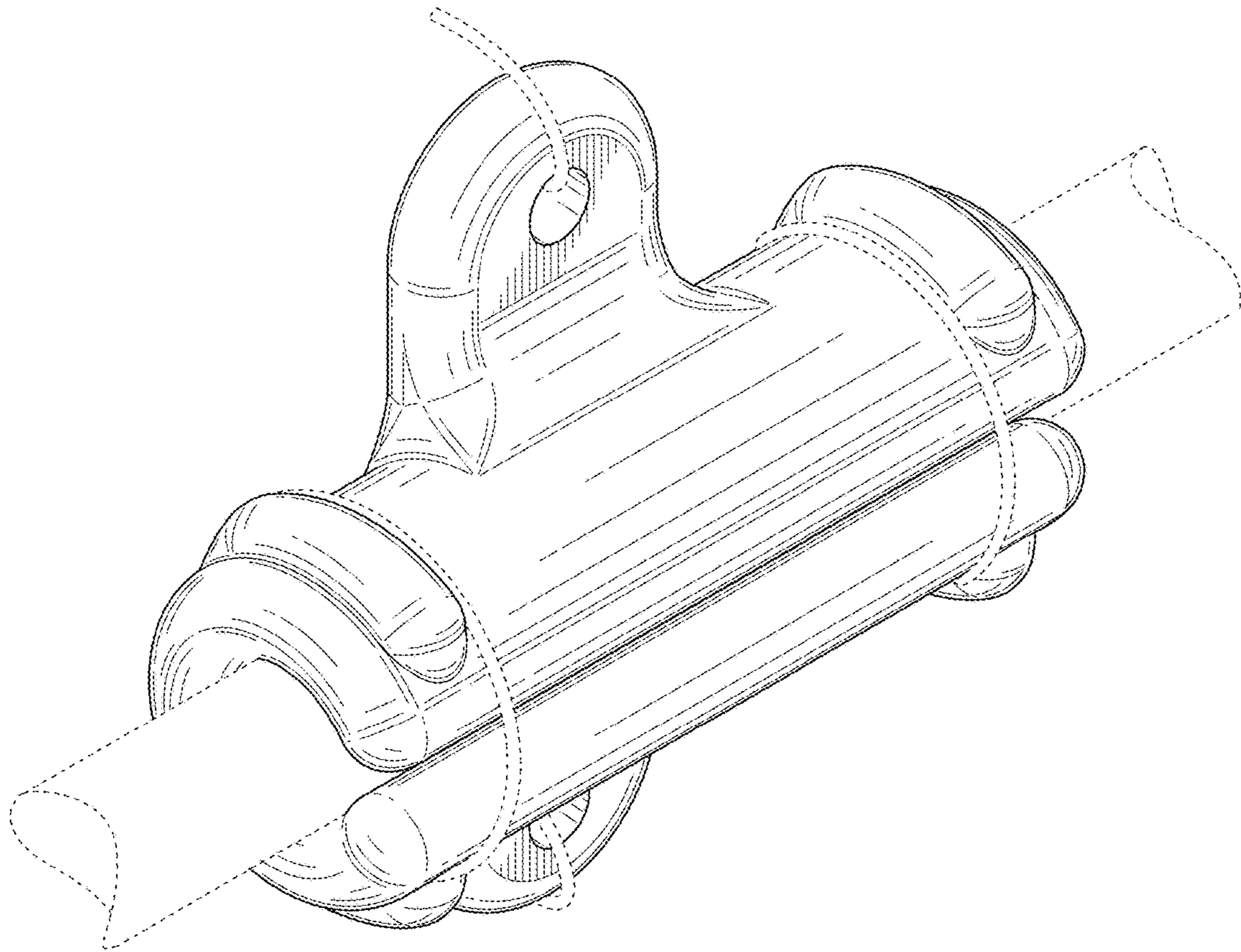


FIG. 9