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deBock et al.

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(54) **ADAPTER AND CONNECTOR FOR ELECTRICAL STIMULATION**

(71) Applicant: **SPR Therapeutics, Inc.**, Cleveland, OH (US)

(72) Inventors: **Matthew G. deBock**, Morrisville, NC (US); **Joseph W. Boggs, II**, Chapel Hill, NC (US); **Matthew J. Wunzin**, Cleveland, OH (US); **Robert B. Strother, Jr.**, Willoughby Hills, OH (US); **Devin Sell**, Brecksville, OH (US); **Mark R. Stultz**, Maple Grove, MN (US); **Bradley A. Lewis**, Lyndhurst, OH (US)

(73) Assignee: **SPR Therapeutics, Inc.**, Cleveland, OH (US)

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

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(51) **LOC (13) Cl.** **13-03**

(52) **U.S. Cl.**
USPC **D13/133; D24/200**

(58) **Field of Classification Search**
USPC D13/103, 118–120, 123, 133, 146, 147, D13/149, 154, 184, 199; D24/129, 200
CPC H01R 11/01; H01R 13/00; H01R 13/05; H01R 13/52; H01R 13/622; H01R 13/627; H01R 24/58; H01R 4/2433; A61N 1/05; A61N 1/375; A61N 1/36
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

4,296,760 A * 10/1981 Carlsson A61N 1/0512
607/138
4,556,051 A 12/1985 Maurer

D320,001 S * 9/1991 Hirabayashi D13/146
D363,553 S 10/1995 Lee
D416,868 S * 11/1999 Tsai D13/147
6,021,353 A 2/2000 Wang
6,122,554 A 9/2000 Coral
D449,579 S * 10/2001 Goto D13/133
D456,520 S 4/2002 Suen
D475,463 S 6/2003 Leyde
D482,453 S 11/2003 Wade
D504,726 S 5/2005 Ryan
D504,953 S 5/2005 Ryan
D511,008 S 10/2005 Ryan
D539,916 S 4/2007 Baldachini
D571,476 S 6/2008 Chuang
D598,113 S 8/2009 Flaction
D603,968 S 11/2009 Brefka

(Continued)

Primary Examiner — Shawn T Gingrich

(74) *Attorney, Agent, or Firm* — McDonald Hopkins LLC

(57) **CLAIM**

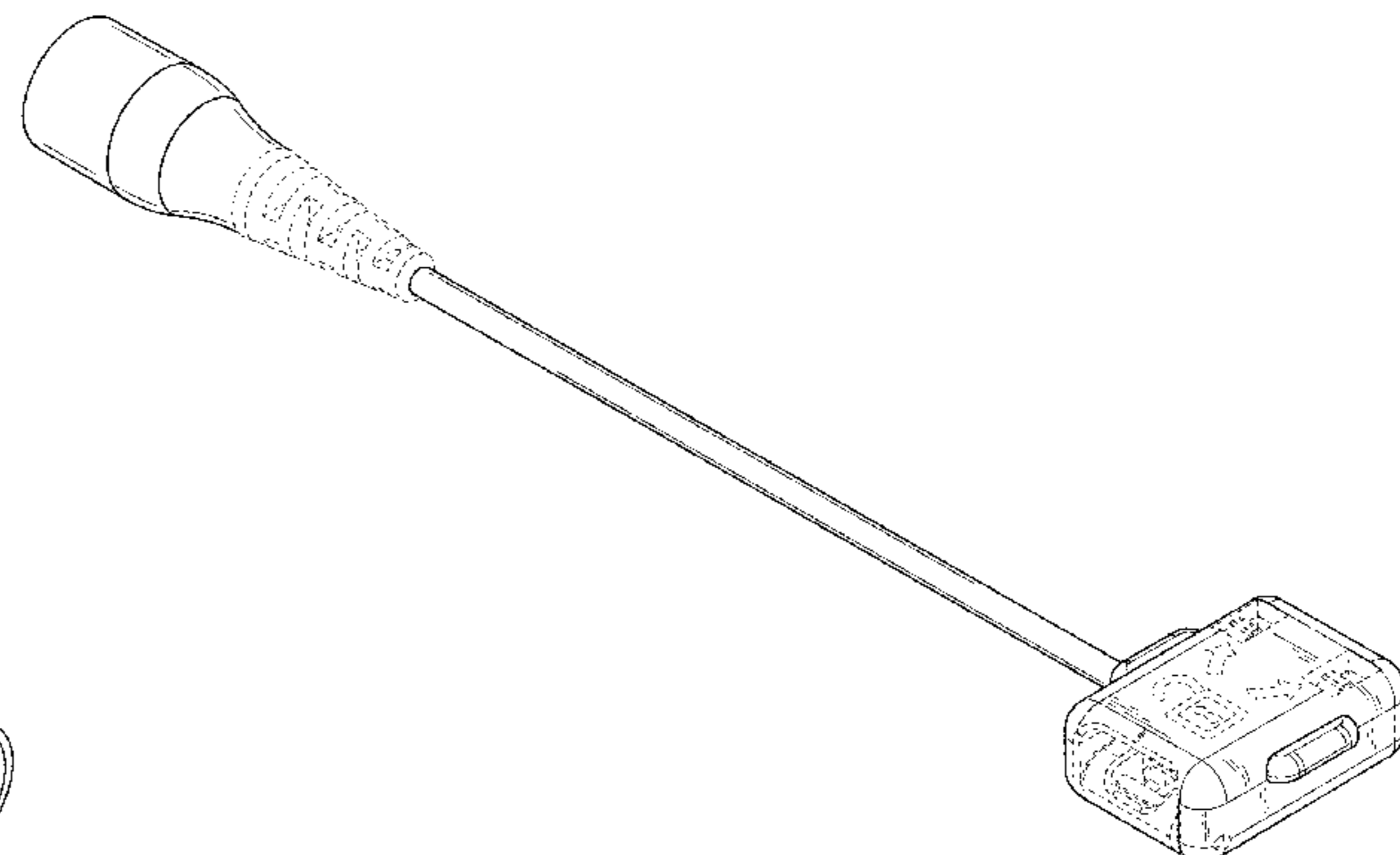
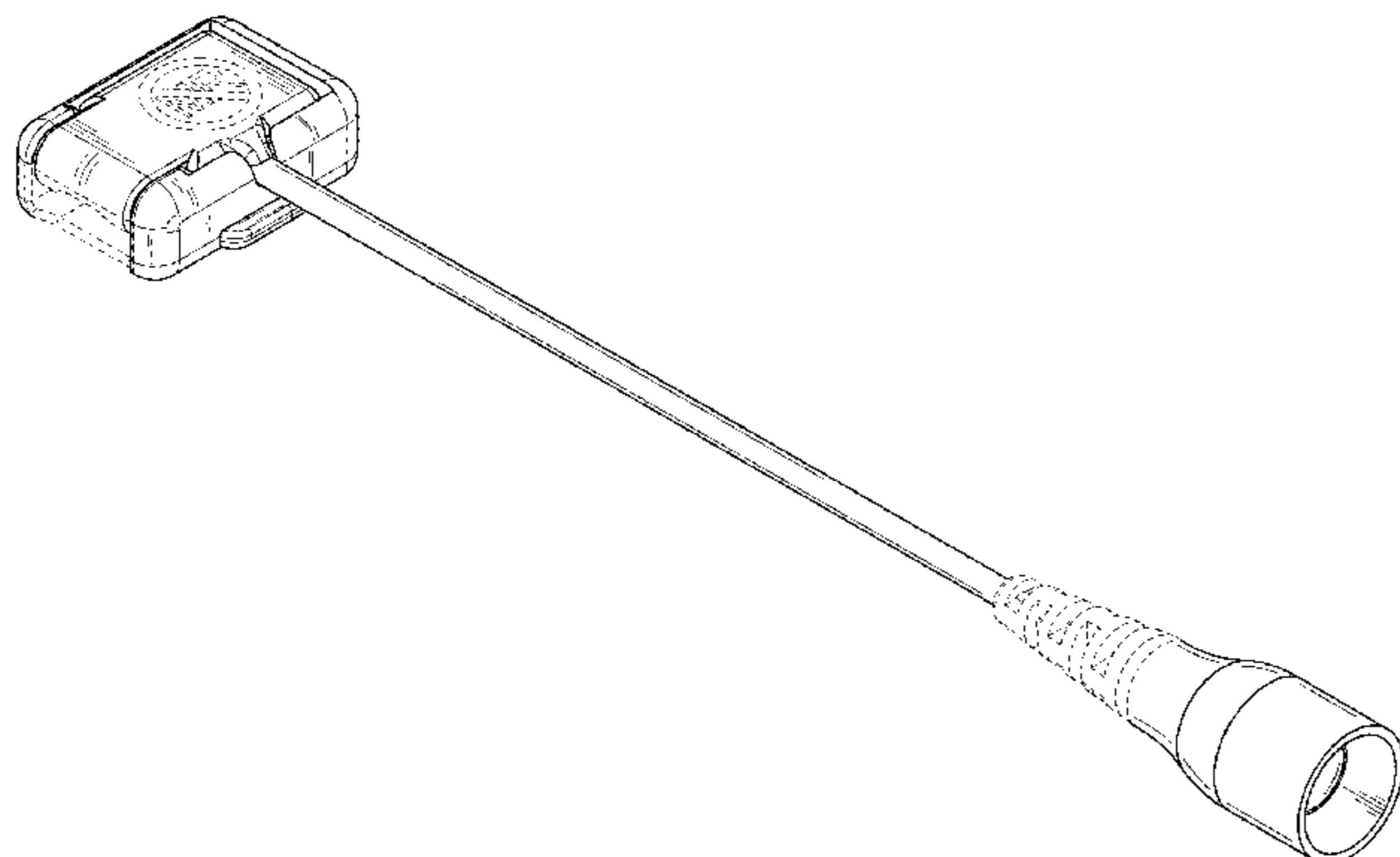
The ornamental design for an adapter and connector for electrical stimulation, as shown and described.

DESCRIPTION

FIG. 1 is a top perspective view of an adapter and connector for electrical stimulation showing our new design; FIG. 2 is a bottom perspective view thereof; FIG. 3 is a front view thereof; FIG. 4 is a rear view thereof; FIG. 5 is a first side view thereof; FIG. 6 is a second side view thereof; FIG. 7 is a top view thereof; and, FIG. 8 is a bottom view thereof.

The broken lines in the figures are included for the purpose of illustrating portions of an adapter and connector for electrical stimulation and form no part of the claimed design.

1 Claim, 5 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

D603,971 S 11/2009 Gonzales
D616,103 S 5/2010 Ford-Robertson
D628,537 S * 12/2010 Nagata D13/147
D658,304 S 4/2012 Rundle
D674,105 S 1/2013 Rundle
D675,571 S * 2/2013 Suzuki D13/147
D714,731 S * 10/2014 Lee D13/147
D716,739 S * 11/2014 Yamamoto D13/147
D794,568 S * 8/2017 Wardenburg D13/133
D806,656 S * 1/2018 Popp D13/153
2003/0139089 A1 * 7/2003 DeLadurantaye, III
H01R 24/58
439/502
2016/0250466 A1 * 9/2016 Boggs, II A61N 1/05
607/46
2019/0366101 A1 * 12/2019 McSherry H01R 24/60
2021/0316146 A1 * 10/2021 DeBock A61N 1/0529

* cited by examiner

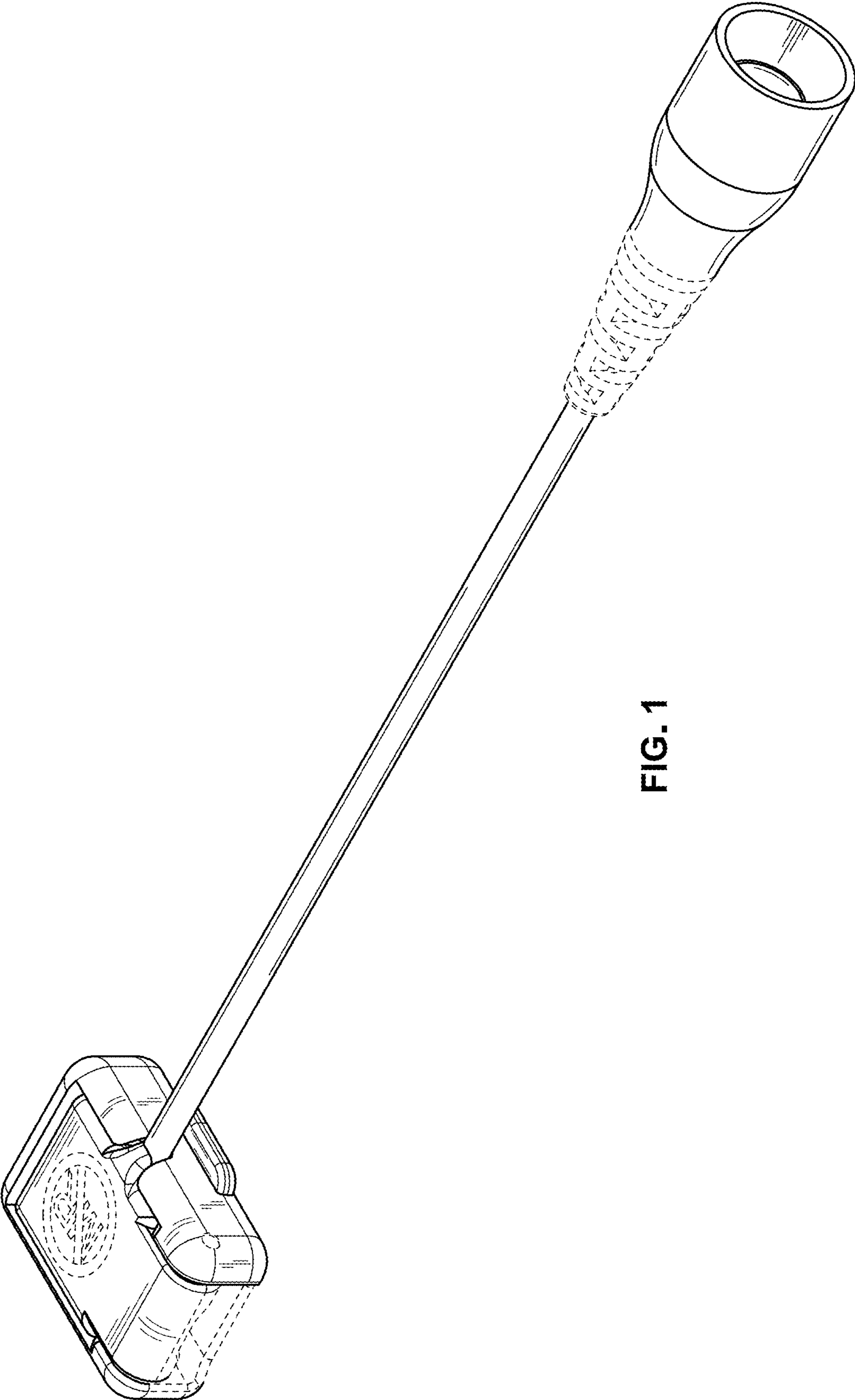


FIG. 1

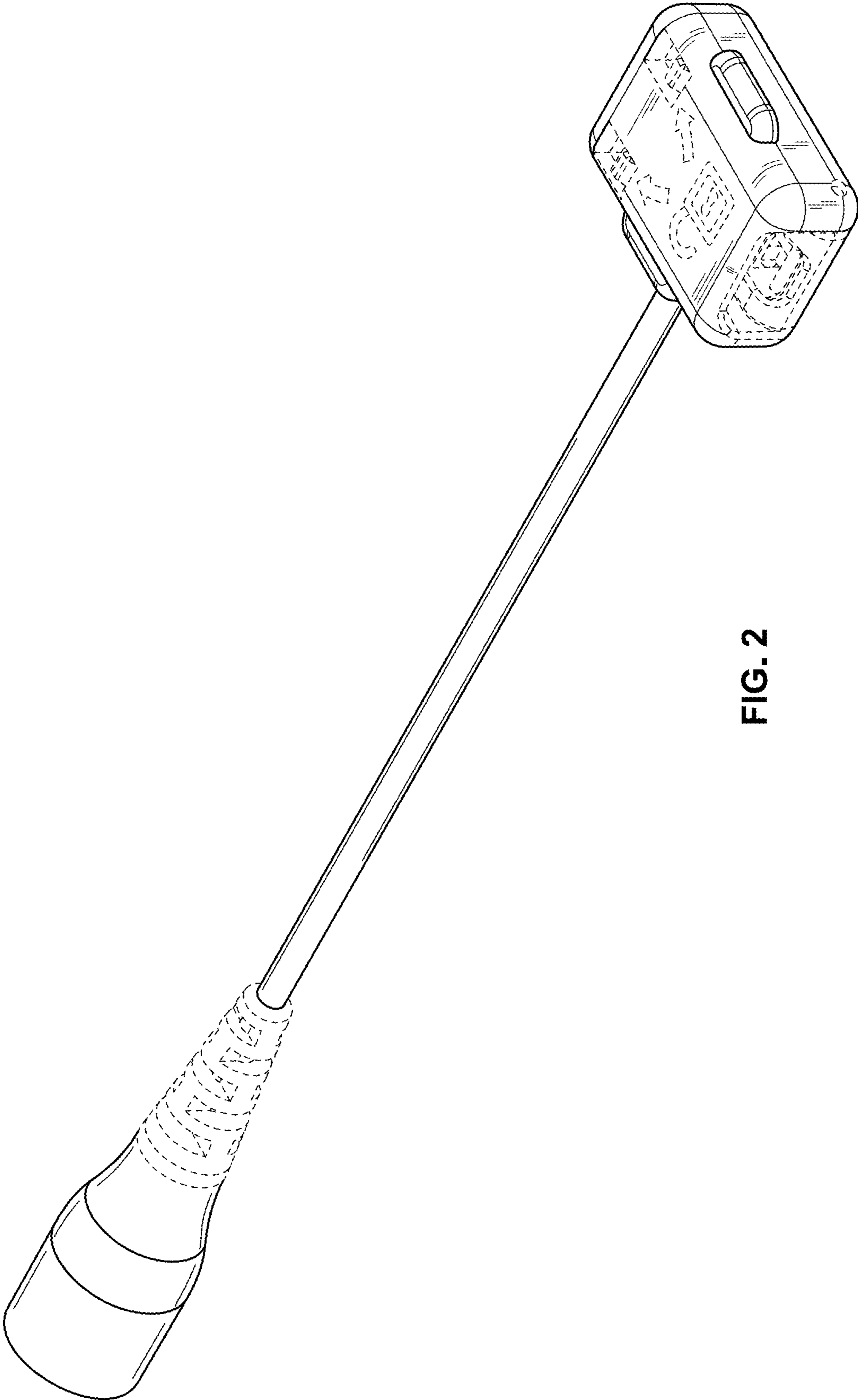


FIG. 2

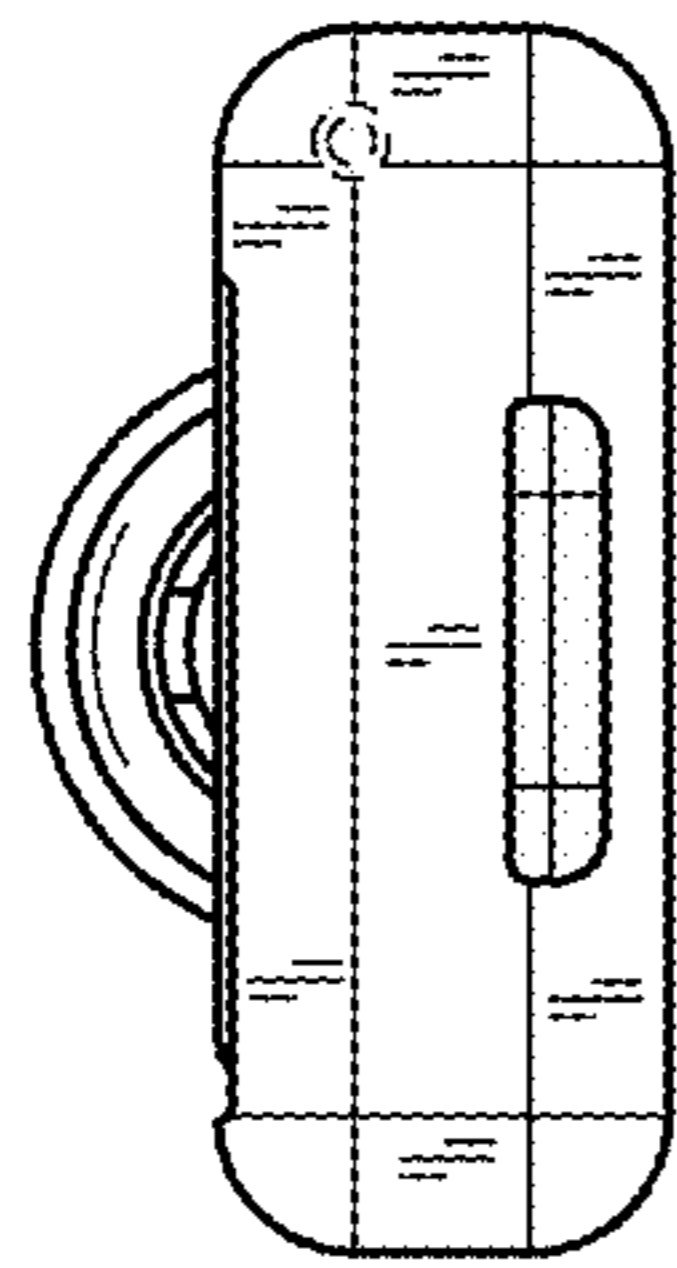


FIG. 3

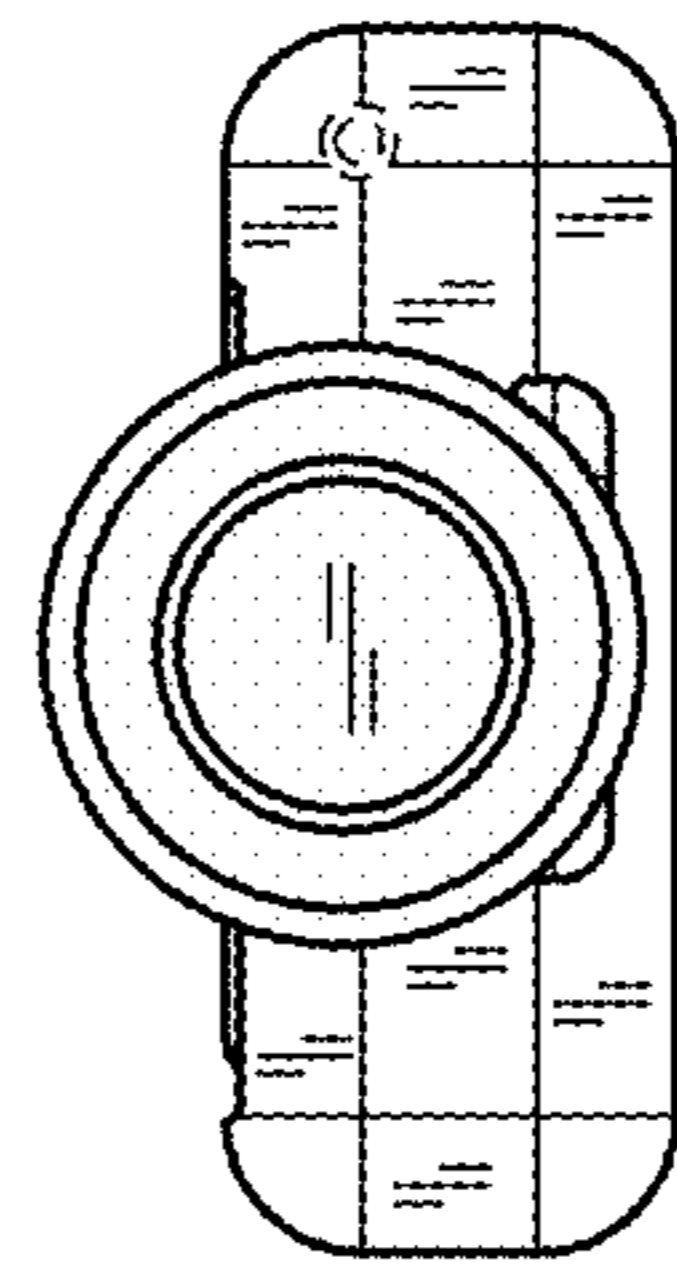


FIG. 4

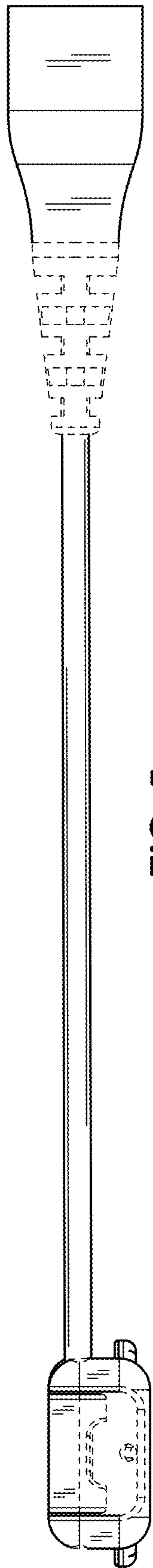


FIG. 5

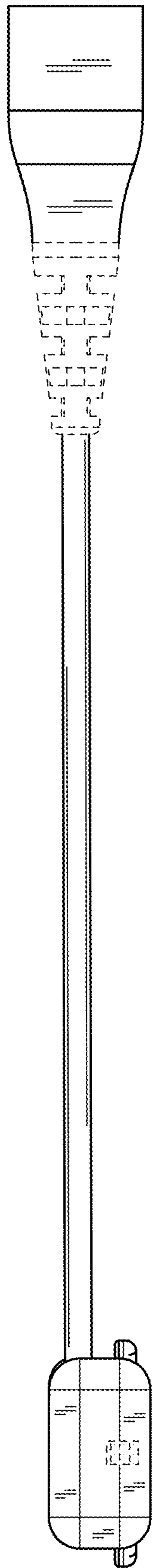


FIG. 6

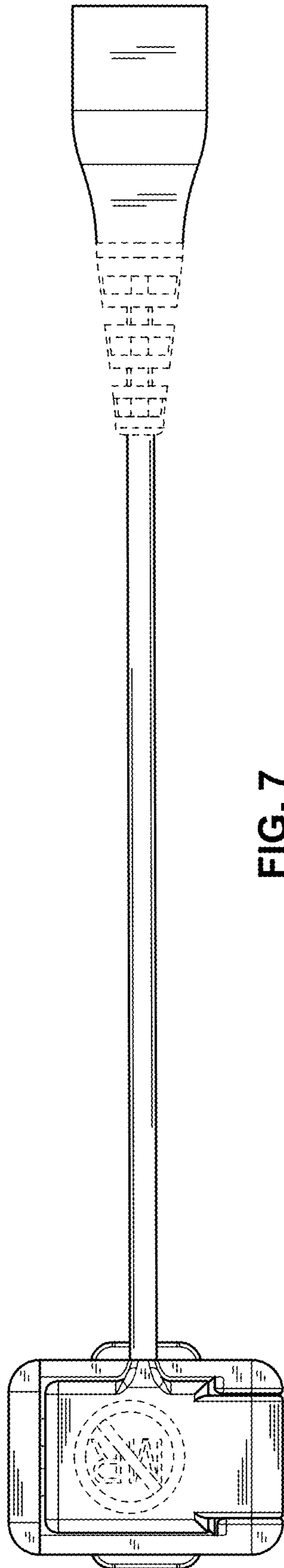


FIG. 7

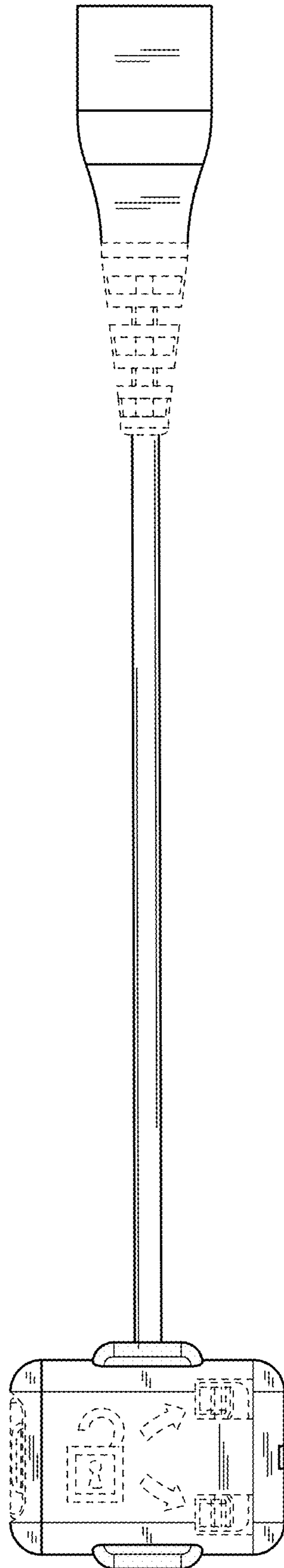


FIG. 8