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(12) **United States Design Patent** (10) **Patent No.:** **US D935,611 S**
Eisenthal et al. (45) **Date of Patent:** **** Nov. 9, 2021**

(54) **TISSUE TRACT SEALANT DEVICE**

FOREIGN PATENT DOCUMENTS

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EP 0858776 A2 8/1998
KR 100786728 12/2007

(Continued)

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OTHER PUBLICATIONS

International Search Report for PCT/US18/62799 (dated Apr. 25, 2019).

(Continued)

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

(57) **CLAIM**

The ornamental design for the tissue tract sealant device, as shown and described.

(21) Appl. No.: **29/672,792**

DESCRIPTION

(22) Filed: **Dec. 10, 2018**

(51) **LOC (13) Cl.** **24-02**

(52) **U.S. Cl.**
USPC **D24/146**

(58) **Field of Classification Search**
USPC D24/146, 147, 148, 127–131, 112–114,
D24/133, 186; D7/649; D8/93, 97, 300,
D8/310, 311, 313; D19/110, 115
CPC A61B 10/0233; A61B 17/00491; A61B
17/0057; A61B 90/39; A61B 2017/00367;
A61B 2017/0065; A61B 2017/00809;
A61B 2090/3966

See application file for complete search history.

FIG. 1 is a perspective view of a tissue tract sealant device where a portion of the device is transparent revealing a one-way seal inside;
FIG. 2 is a right side view of the tissue tract sealant device;
FIG. 3 is a left side view of the tissue tract sealant device;
FIG. 4 is a front view of the tissue tract sealant device;
FIG. 5 is a back view of the tissue tract sealant device;
FIG. 6 is a top view of the tissue tract sealant device;
FIG. 7 is a bottom view of the tissue tract sealant device;
FIG. 8 is a perspective view of a portion of the tissue tract sealant device thereof including broken line features which form no part of the claimed design; and,
FIG. 9 is a perspective view of a portion of the tissue tract sealant device thereof including alternative broken line features which form no part of the claimed design.
The portions in FIGS. 8-9 shown in broken lines are included to show features that form no part of the claimed design. The tissue tract sealant device is shown with a symbolic break in its length. The appearance of any portion of the tissue tract sealant device between the break lines forms no part of the claimed design.

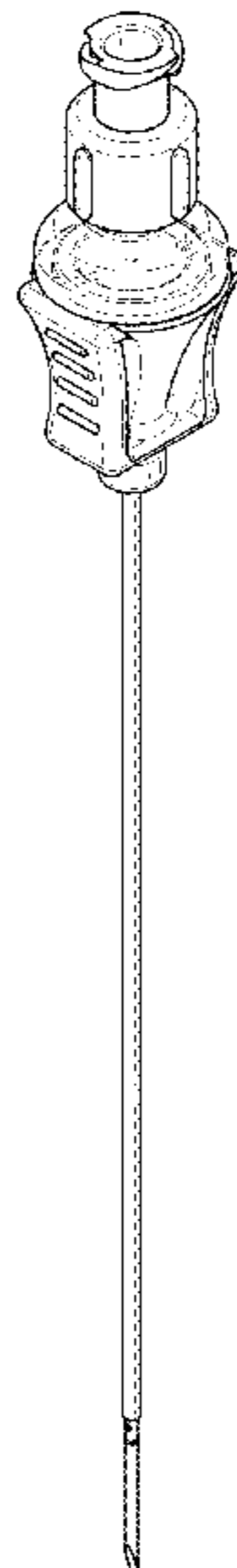
(56) **References Cited**

U.S. PATENT DOCUMENTS

3,330,268 A * 7/1967 Goldsmith A61B 10/0283
600/566
D250,544 S * 12/1978 Leonard D24/147
D269,549 S * 6/1983 Gross D24/112

(Continued)

1 Claim, 8 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

D286,677 S * 11/1986 Osborne D24/112
 4,670,008 A 6/1987 Von Albertini
 5,256,149 A 10/1993 Banik et al.
 D342,136 S * 12/1993 Lafferty D24/112
 D353,668 S * 12/1994 Banks D24/112
 5,387,197 A 7/1995 Smith et al.
 5,437,631 A 8/1995 Janzen
 5,571,133 A * 11/1996 Yoon A61B 17/3494
 604/164.01
 D379,515 S * 5/1997 Kuehn D24/146
 6,045,570 A 4/2000 Epstein et al.
 6,685,727 B2 2/2004 Fisher et al.
 6,692,467 B2 2/2004 McFarlane
 6,770,070 B1 3/2004 Balbierz
 6,790,185 B1 9/2004 Fisher et al.
 6,840,952 B2 11/2005 Saker et al.
 D582,552 S * 12/2008 Berberich D24/133
 7,766,891 B2 8/2010 McGurk et al.
 D624,653 S * 9/2010 Boillat D24/146
 D630,734 S * 1/2011 Speiser D24/133
 D640,785 S * 6/2011 Lee D24/112
 8,029,474 B2 10/2011 Chung
 D654,583 S * 2/2012 Lee-Sepsick D24/112
 D663,832 S * 7/2012 Essinger D24/112
 D687,548 S * 8/2013 Hayashi D24/130
 D692,134 S * 10/2013 Lee-Sepsick D24/146
 D699,341 S * 2/2014 Clark D24/112
 D715,431 S * 10/2014 Vonck D24/133
 D735,331 S 7/2015 Mastri et al.
 D747,802 S * 1/2016 Freigang D24/133
 D748,254 S * 1/2016 Freigang D24/133
 D751,704 S * 3/2016 Corydon D24/130
 D772,411 S * 11/2016 Heath D24/146
 D785,173 S 4/2017 Oberkircher et al.

D796,042 S 8/2017 Eubanks
 D831,213 S * 10/2018 Kuun D24/147
 D854,148 S * 7/2019 Prinz D24/133
 D864,388 S * 10/2019 Barber D24/133
 2003/0097079 A1 5/2003 Garcia
 2004/0167473 A1 8/2004 Moenning
 2004/0236340 A1 11/2004 Yves et al.
 2004/0267308 A1 12/2004 Bagadisan
 2006/0025749 A1 2/2006 Moenning
 2006/0025815 A1 2/2006 McGurk et al.
 2008/0294111 A1 11/2008 Tal et al.
 2009/0221960 A1 3/2009 Albrecht et al.
 2011/0208157 A1 8/2011 Geliebter et al.
 2013/0053791 A1 * 2/2013 Clark A61M 5/3293
 604/272
 2014/0194685 A1 7/2014 Riek et al.
 2014/0128671 A1 8/2014 Riek et al.
 2016/0120528 A1 5/2016 Abtin
 2016/0000462 A1 7/2016 Pajunk et al.
 2016/0296218 A1 10/2016 Uchida et al.

FOREIGN PATENT DOCUMENTS

KR 101151310 9/2011
 KR 20150117517 10/2015
 WO 2011026935 A1 3/2011
 WO 2013000536 A1 1/2013
 WO 2013135354 A2 9/2013
 WO 2019108618 A1 6/2019

OTHER PUBLICATIONS

International Preliminary Examination Report for PCT/US18/62799
 (dated Jun. 2, 2020).

* cited by examiner

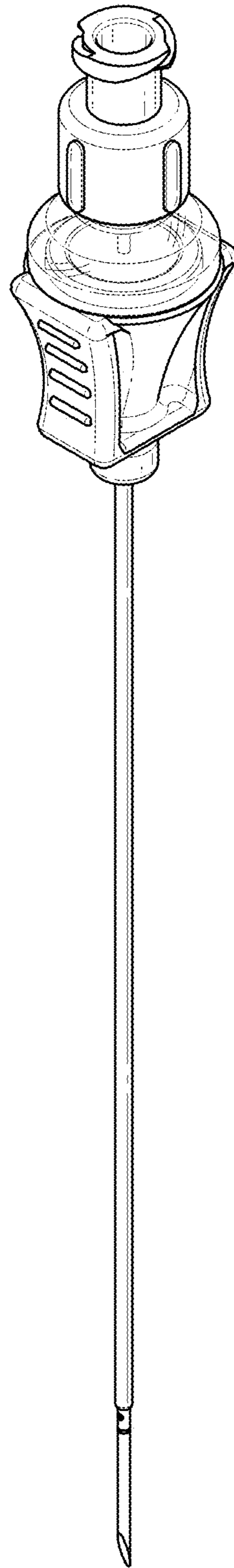


FIG. 1

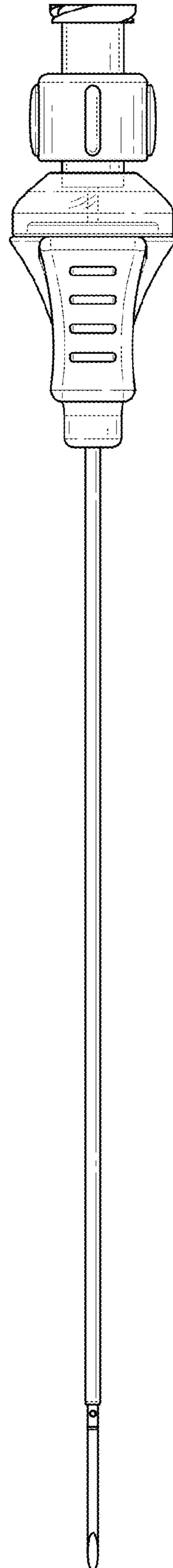


FIG. 2

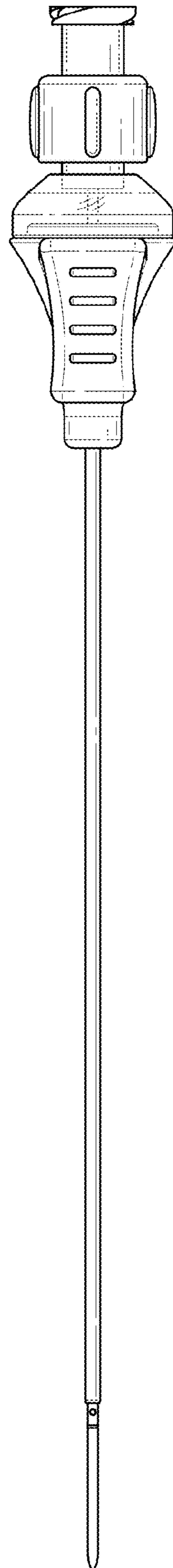


FIG. 3

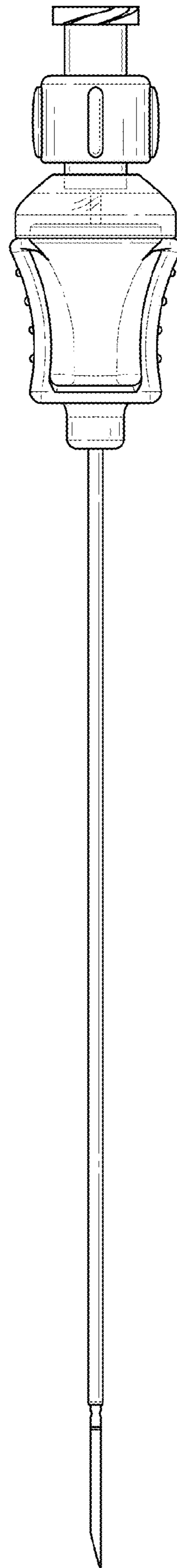


FIG. 4

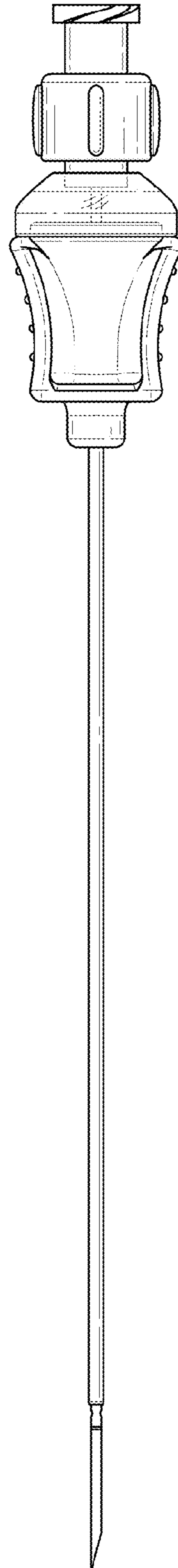


FIG. 5

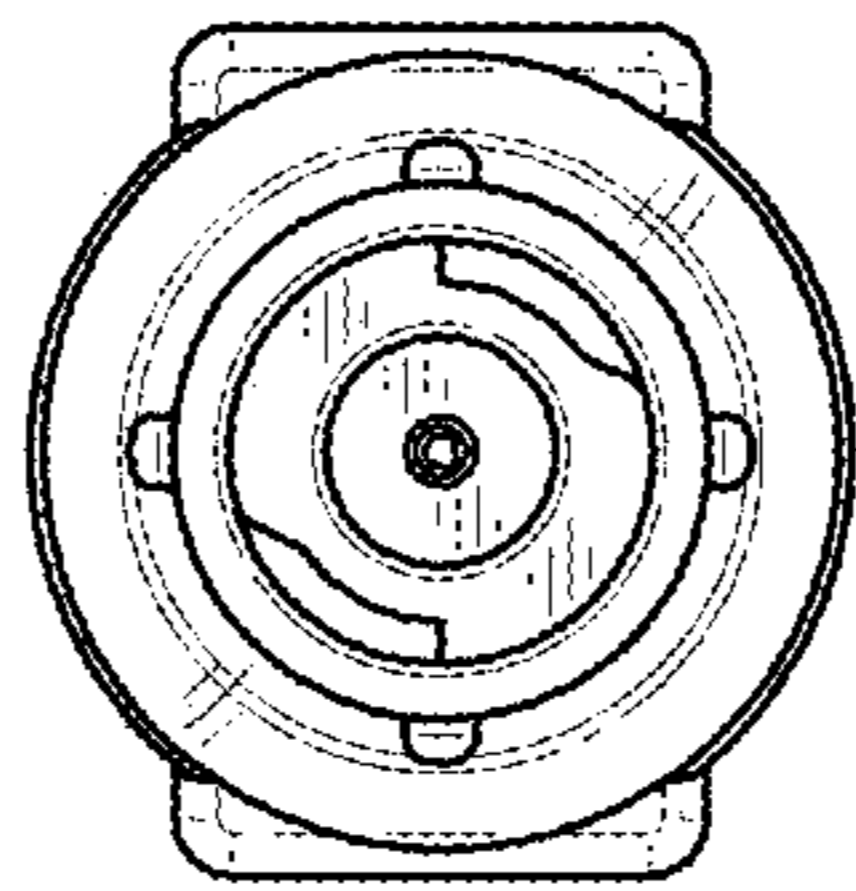


FIG. 6

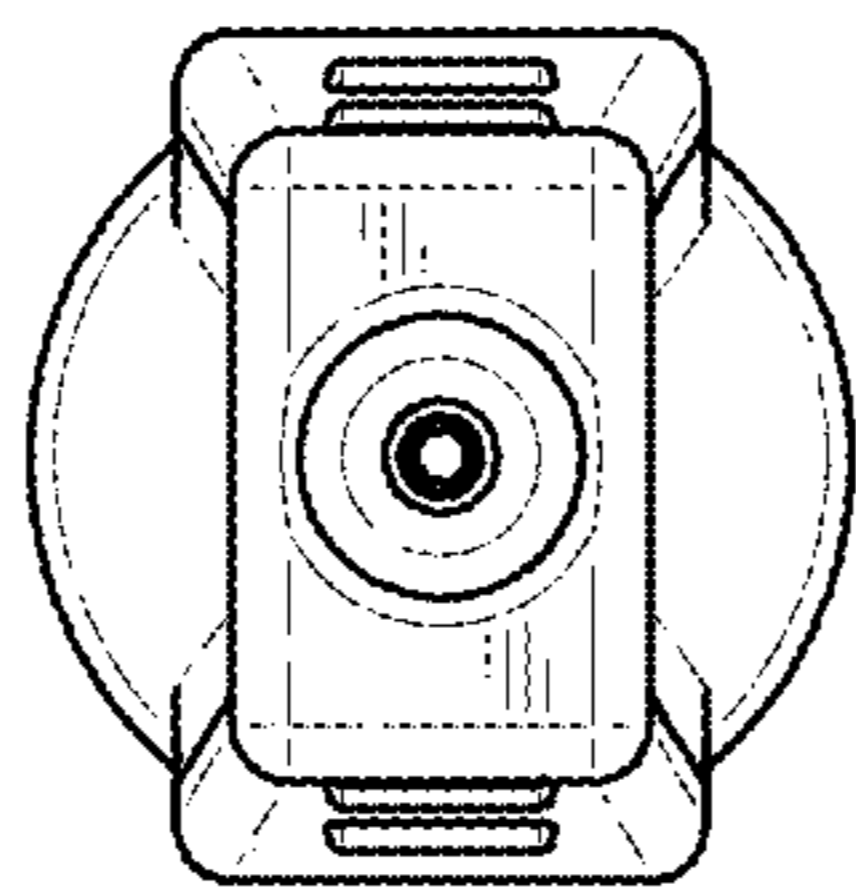


FIG. 7

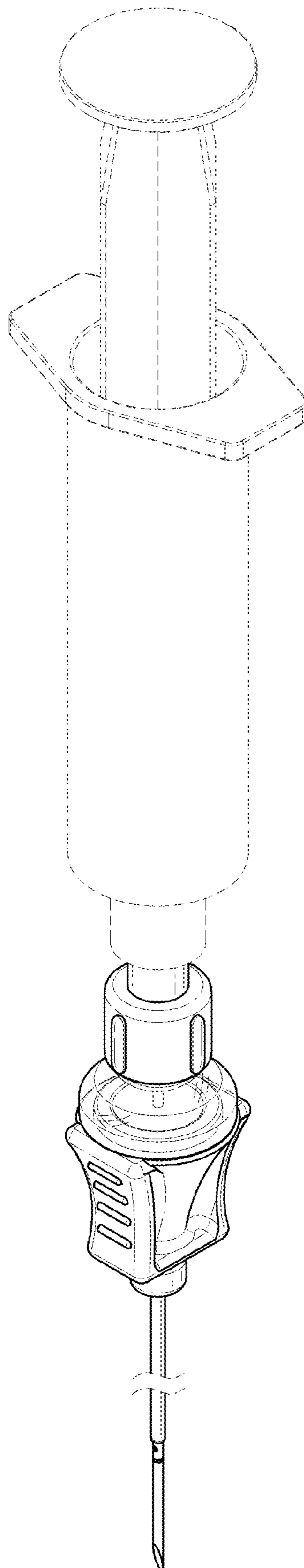


FIG. 8

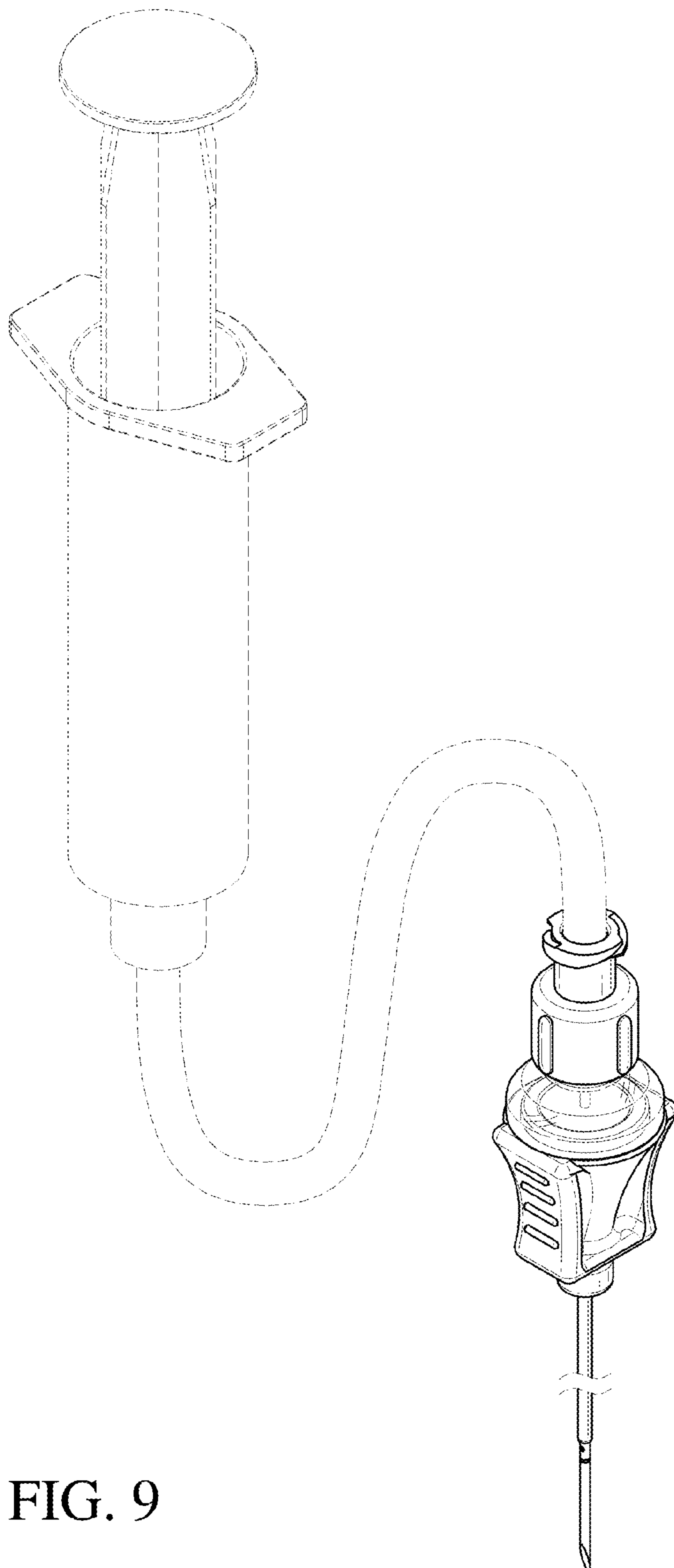


FIG. 9