

US00D615657S

(12) United States Design Patent

Anderson et al.

(10) Patent No.:

US D615,657 S

(45) **Date of Patent:**

** May 11, 2010

54) PHYSIOLOGICAL SENSOR

(75) Inventors: **Arik Anderson**, Birmingham, MI (US); **Ronald A. Widman**, Macomb, MI (US); **Oleg Gonopolskiy**, West Bloomfield, MI

(US)

(73) Assignee: Somanetics Corporation, Troy, MI (US)

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

(21) Appl. No.: 29/331,817

(22) Filed: Feb. 2, 2009

(56) References Cited

U.S. PATENT DOCUMENTS

See application file for complete search history.

D232,590	\mathbf{S}	*	8/1974	Testa D24/168
D243,476	S	*	2/1977	Avery D24/187
D272,943	S	*	3/1984	Stone et al D24/187
D273,514	S	*	4/1984	Heilman et al D24/168
D274,262	\mathbf{S}	*	6/1984	Heilman et al D24/168
4,524,087	\mathbf{A}	*	6/1985	Engel 427/2.12
5,042,463	\mathbf{A}	*	8/1991	Lekholm 607/129
D369,667	\mathbf{S}	*	5/1996	Vincents et al D24/187
D378,614	S	*	3/1997	Jensen
D385,037	S	*	10/1997	Jensen D24/187
D429,337	S	*	8/2000	Sanfilippo
D457,634	S	*	5/2002	Rouns et al D24/168
D458,376	S	*	6/2002	Rouns et al D24/168
D468,433	S	*	1/2003	Wagner et al D24/187
D492,782	S	*	7/2004	Faller et al D24/167
D519,636	S	*	4/2006	Okuda et al D24/168
D524,943	S	*	7/2006	Faller et al D24/167
D541,421	S	*	4/2007	Metzger et al D24/187
D561,900	S	*	2/2008	Becsi
D567,949	S	*	4/2008	Lash et al D24/168
D568,479	\mathbf{S}	*	5/2008	Mao et al D24/168

D584,414 S	*	1/2009	Lash et al	D24/187
D587,375 S	*	2/2009	Mao et al	D24/168
D600,352 S	*	9/2009	Cryan	D24/187

* cited by examiner

Primary Examiner—T. Chase Nelson

Assistant Examiner—Mark Cavanna

(74) Attornov Agent or Firm Roder Fish:

(74) Attorney, Agent, or Firm—Rader, Fishman & Grauer PLLC

(57) CLAIM

The ornamental design of a physiological sensor, as shown and described.

DESCRIPTION

FIG. 1 is a bottom plan view of the first embodiment of a physiological sensor with a first cable attached, showing our new design. The cable and the contents of three rectangular portions are unclaimed. The cable is shown cut off to indicate that a specific length of cable forms no part of the claimed design.

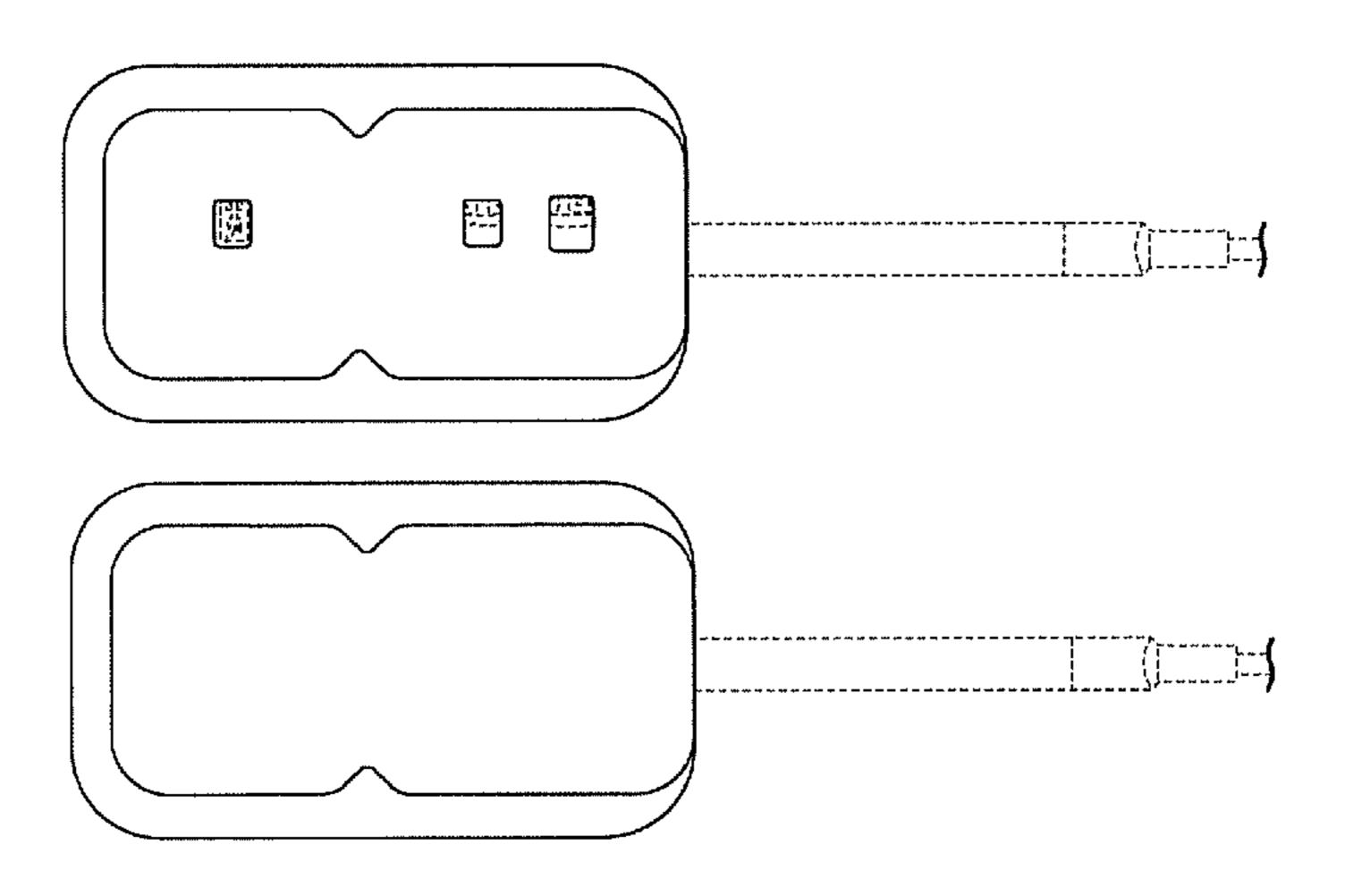
FIG. 2 is a top plan view thereof with the specific length of the cable and the cable unclaimed.

FIG. 3 is a bottom plan view of the first embodiment of a physiological sensor with a second cable attached. The cable and the contents of three rectangular portions are unclaimed. The cable is shown cut off to indicate that a specific length of cable forms no part of the claimed design.

FIG. 4 is a top plan view thereof with the specific length of the cable and the cable unclaimed.

FIG. 5 is an enlarged exemplary side plan view of the first embodiment of the physiological sensor with the specific length of the cable and the cable unclaimed. The side plan view would be the same for the second and third embodiments with the exception of the claimed cord portion.

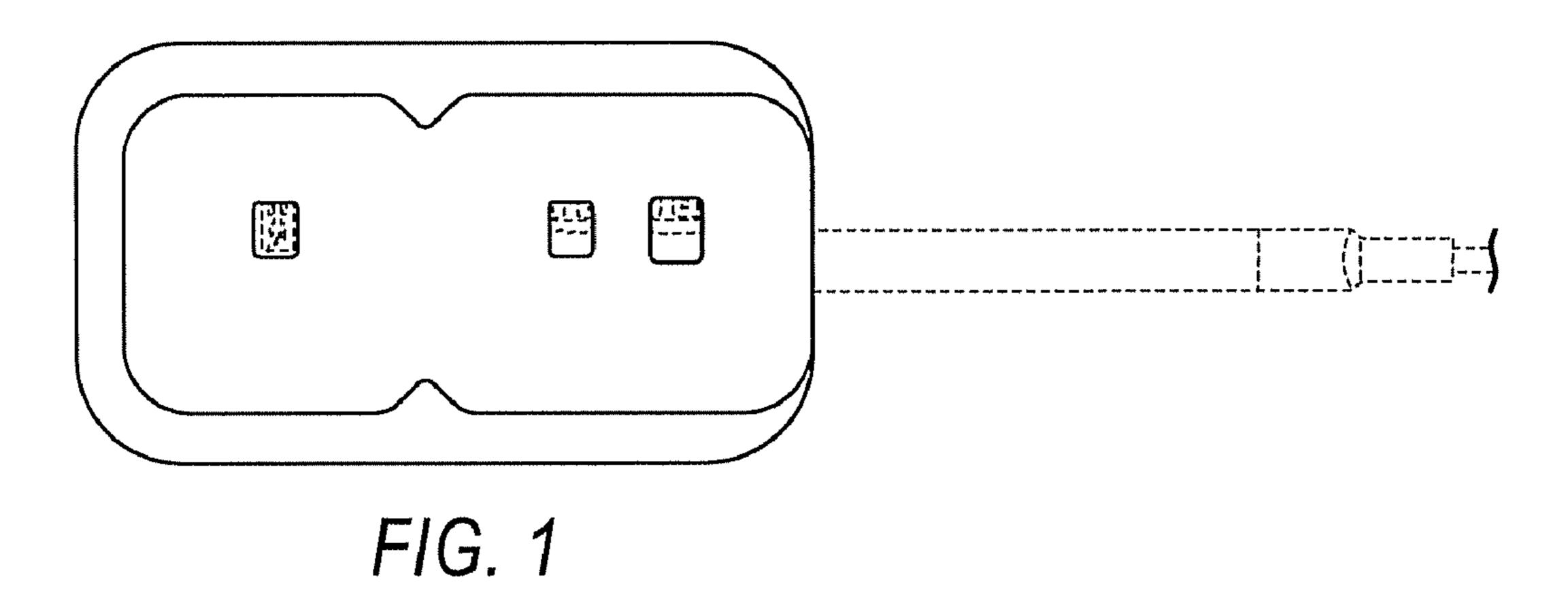
FIG. 6 is an enlarged exemplary front plan view of the first embodiment of the physiological sensor with the cable unclaimed. The front plan view would be the same for the second and third embodiments with the exception of the claimed cord portion.

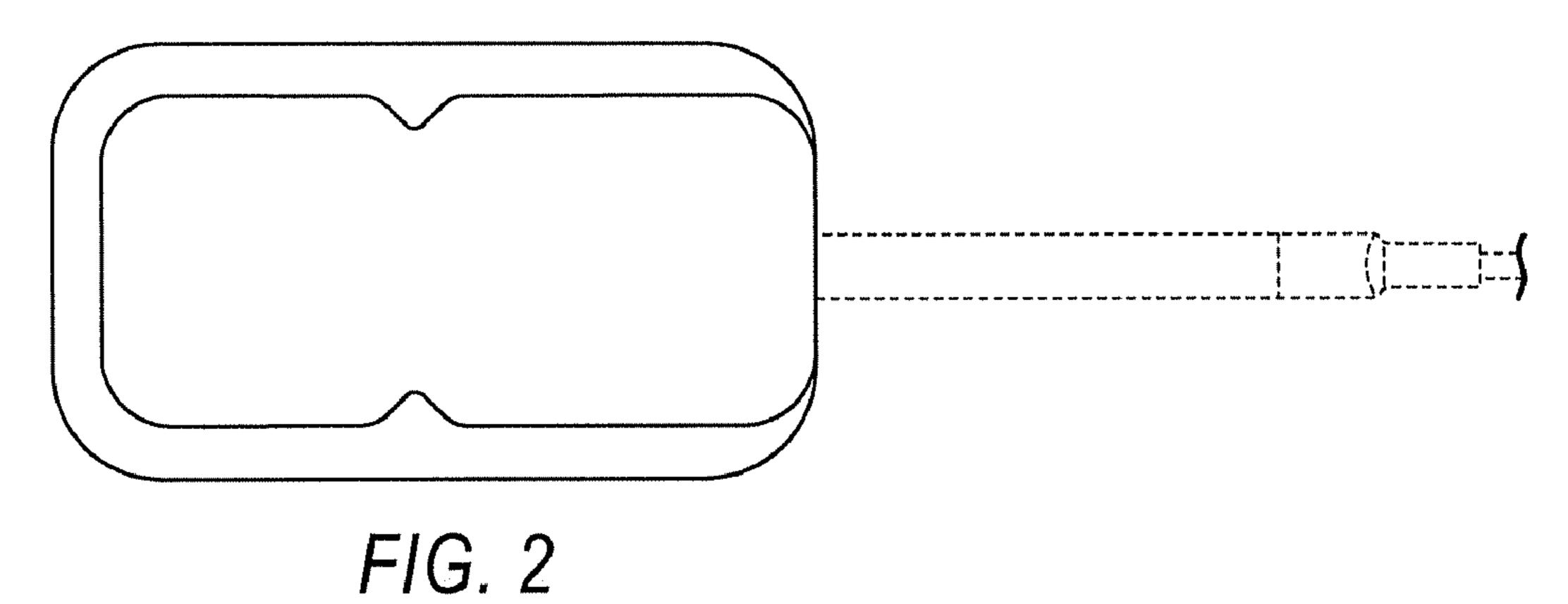


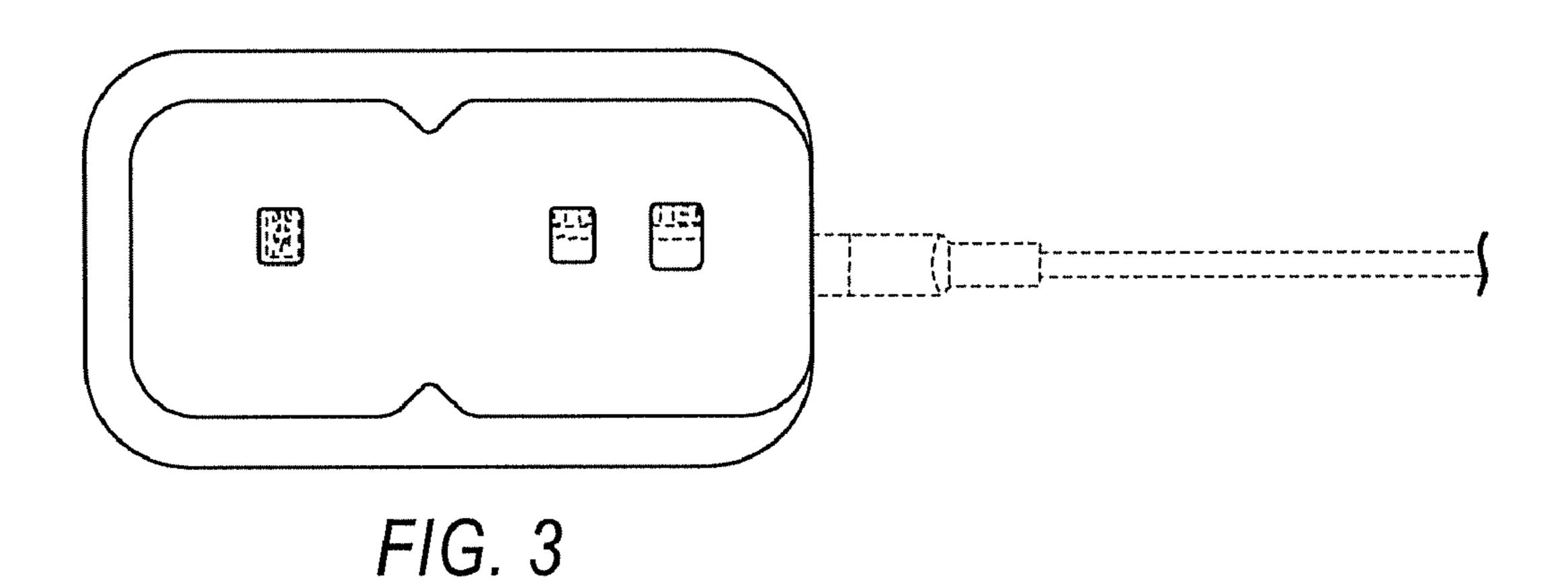
- FIG. 7 is an enlarged exemplary back plan view of the first embodiment of the physiological sensor with the cable unclaimed. The back plan view would be the same for the second and third embodiments with the exception of the claimed cord portion.
- FIG. 8 is a bottom plan view of the second embodiment of a physiological sensor with a first cable attached. The contents of three rectangular portions are unclaimed. The cable is shown cut off to indicate that a specific length of cable forms no part of the claimed design.
- FIG. 9 is a top plan view thereof.
- FIG. 10 is a bottom plan view of the third embodiment of a physiological sensor with a second cable attached. The contents of the three rectangular portions are unclaimed. The cable is shown cut off to indicate that a specific length of cable forms no part of the claimed design.
- FIG. 11 is a top plan view thereof with the cable unclaimed and of indeterminate length.
- FIG. 12 is a bottom plan view of the fourth embodiment of a physiological sensor with a liner disposed thereon with a first cable attached. The cable and the contents of three rectangular portions are unclaimed. The cable is shown cut off to indicate that a specific length of cable forms no part of the claimed design.
- FIG. 13 is a top plan view thereof with the specific length of the cable and the cable unclaimed.
- FIG. 14 is a bottom plan view of the fifth embodiment of a physiological sensor with liner disposed thereon with a first cable attached. The cable, rectangular tab liner and the three rectangular portions are unclaimed. The cable is shown cut off to indicate that a specific length of cable forms no part of the claimed design.
- FIG. 15 is a bottom plan view of the sixth embodiment of a physiological sensor with a slit liner disposed thereon with a first cable attached. The cable and the contents of three rectangular portions are unclaimed. The cable is shown cut off to indicate that a specific length of cable forms no part of the claimed design.
- FIG. 16 is a bottom plan view of the seventh embodiment of a physiological sensor with liner disposed thereon with a first cable attached. The cable and the contents of three rectangular portions are unclaimed. The cable is shown cut off to indicate that a specific length of cable forms no part of the claimed design.
- FIG. 17 is a top plan view thereof with the specific length of the cable and the cable unclaimed.
- FIG. 18 is a bottom plan view of the fifth embodiment of a physiological sensor with a liner disposed thereon with a second cable attached. The cable, rectangular tab liner and the three rectangular portions are unclaimed. The cable is shown cut off to indicate that a specific length of cable forms no part of the claimed design.
- FIG. 19 is a bottom plan view of the sixth embodiment of a physiological sensor with liner disposed thereon with a second cable attached. The cable and the contents of three rectangular portions are unclaimed. The cable is shown cut off to indicate that a specific length of cable forms no part of the claimed design.

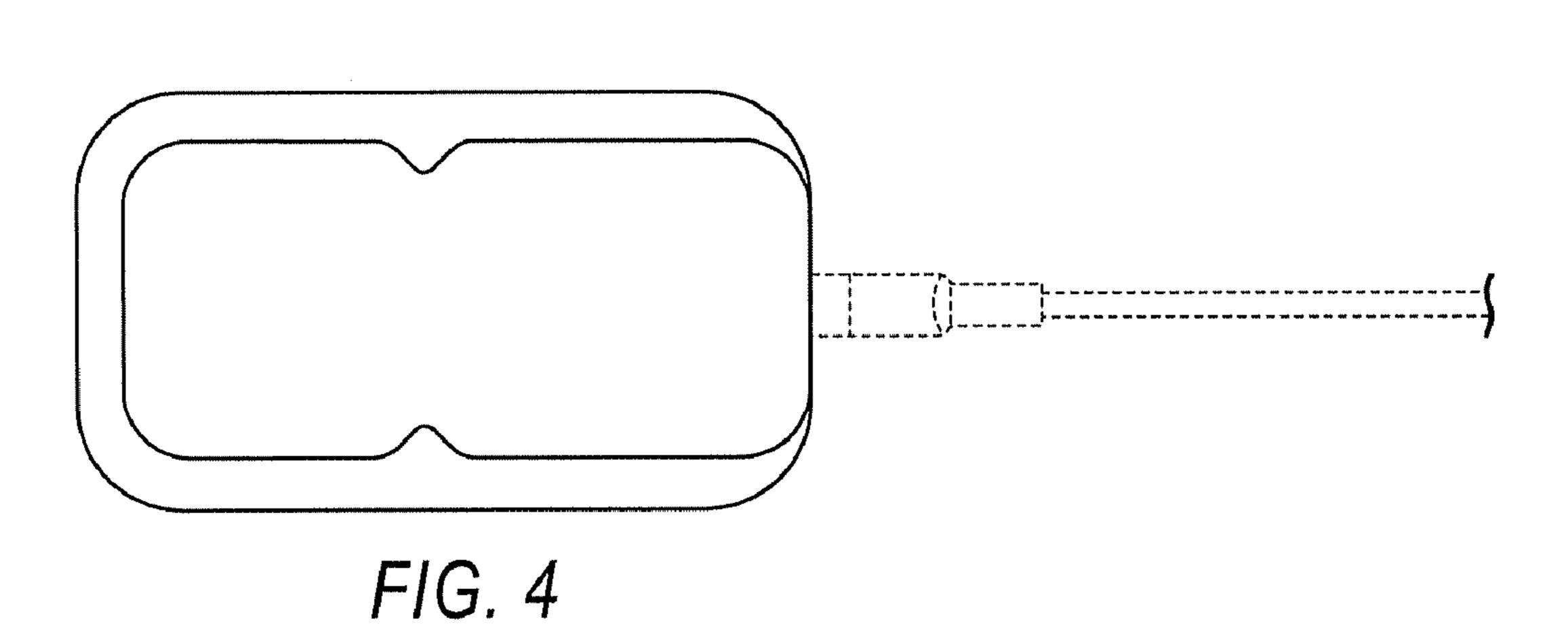
- FIG. 20 is an enlarged exemplary side plan view of the fourth through seventh embodiments of the physiological sensor with the specific length of the cable and the cable unclaimed. The sides would be the same for the eighth through thirteenth embodiments with the exception of the claimed cord portion.
- FIG. 21 is an enlarged exemplary front plan view of the fourth through seventh embodiments of the physiological sensor with the specific length of the cable and the cable unclaimed. The front plan view would be the same for the eighth through thirteenth embodiments with the claimed portion.
- FIG. 22 is an enlarged exemplary back plan view of the fourth through seventh embodiments of the physiological sensor with the specific length of the cable and the cable unclaimed. The back plan view would be the same for the eighth through thirteenth embodiments with the claimed portion.
- FIG. 23 is a bottom plan view of the eighth embodiment of a physiological sensor with a liner disposed thereon with a first cable attached. The contents of three rectangular portions are unclaimed. The cable is shown cut off to indicate that a specific length of cable forms no part of the claimed design.
- FIG. 24 is a top plan view thereof with the cable of indeterminate length.
- FIG. 25 is a bottom plan view of the ninth embodiment of a physiological sensor with liner disposed thereon with a first cable attached. The rectangular tab liner and the three rectangular portions are unclaimed. The cable is shown cut off to indicate that a specific length of cable forms no part of the claimed design.
- FIG. 26 is a bottom plan view of the tenth embodiment of a physiological sensor with a slit liner disposed thereon with a first cable attached. The contents of three rectangular portions are unclaimed. The cable is shown cut off to indicate that a specific length of cable forms no part of the claimed design.
- FIG. 27 is a bottom plan view of the eleventh embodiment of a physiological sensor with liner disposed thereon with a second cable attached. The contents of three rectangular portions are unclaimed. The cable is shown cut off to indicate that a specific length of cable forms no part of the claimed design.
- FIG. 28 is a top plan view thereof with the specific length of the cable unclaimed.
- FIG. 29 is a bottom plan view of the twelfth embodiment of a physiological sensor with a rectangular tab liner disposed thereon with a second cable attached. The rectangular tab liner and the three rectangular portions are unclaimed. The cable is shown cut off to indicate that a specific length of cable forms no part of the claimed design; and,
- FIG. 30 is a bottom plan view of the thirteenth embodiment of a physiological sensor with liner disposed thereon with a second cable attached. The contents of three rectangular portions are unclaimed. The cable is shown cut off to indicate that a specific length of cable forms no part of the claimed design.
- The broken lines are included for the purpose of illustrating portions of the physiological sensor that form no part of the claimed design.

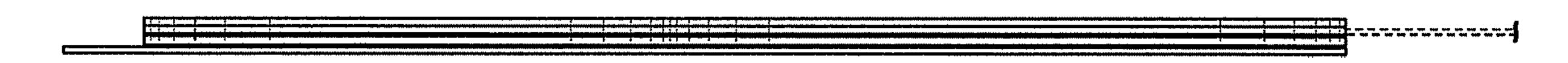
1 Claim, 10 Drawing Sheets





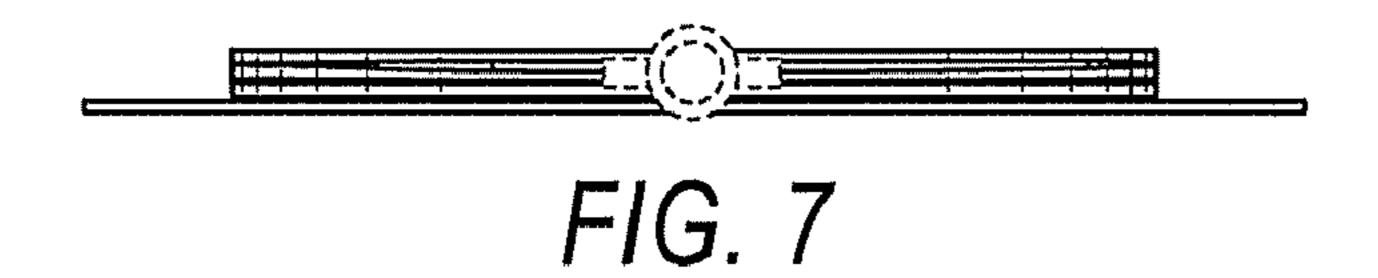


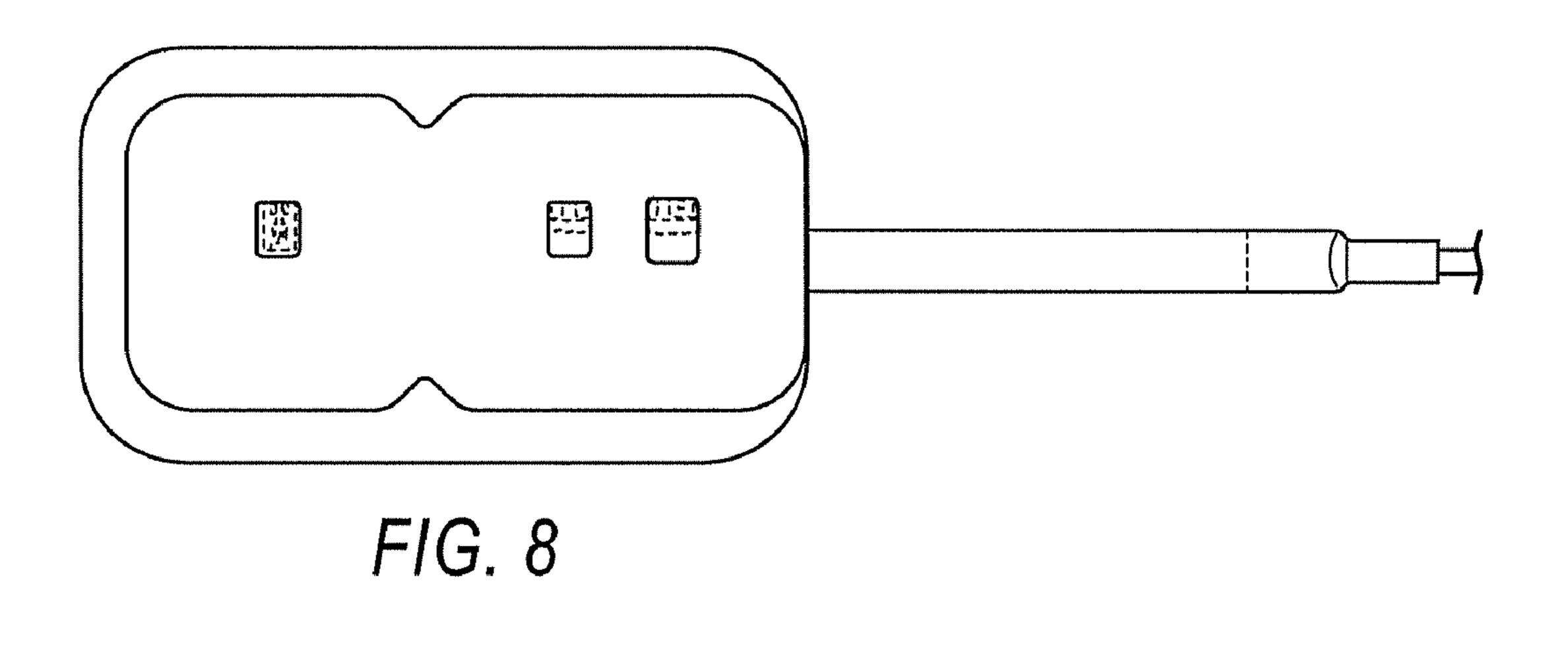


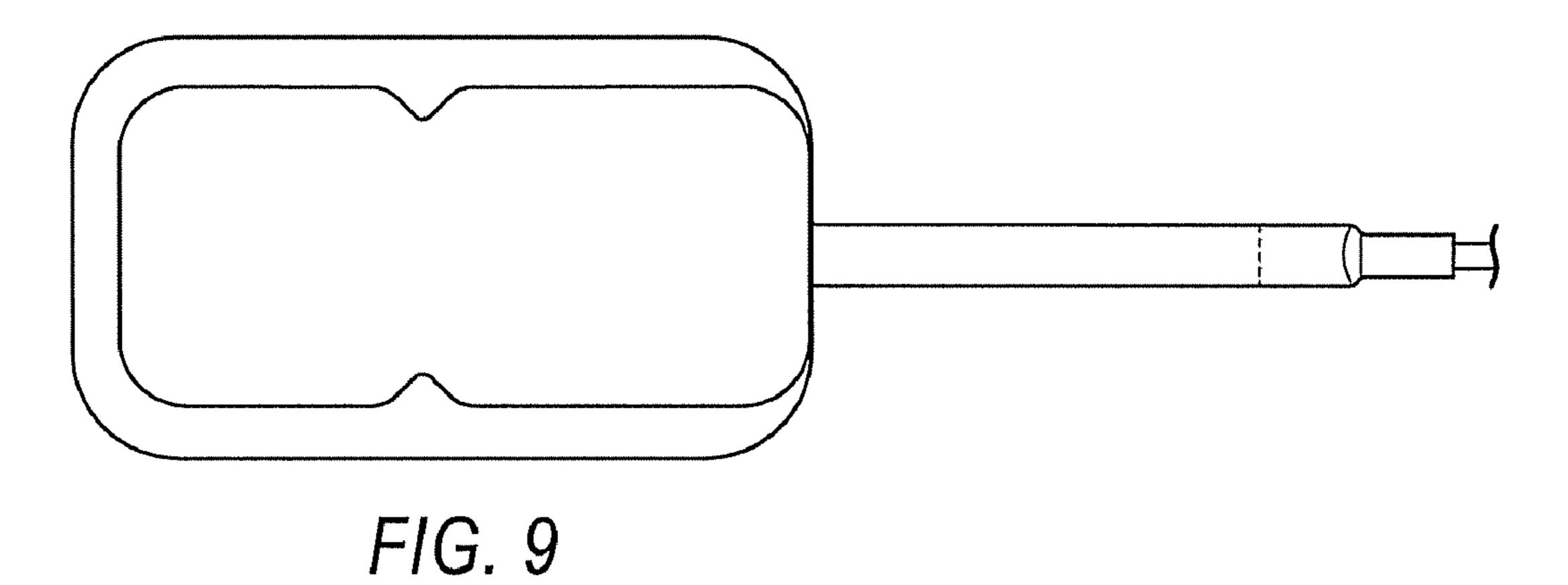


F/G. 5









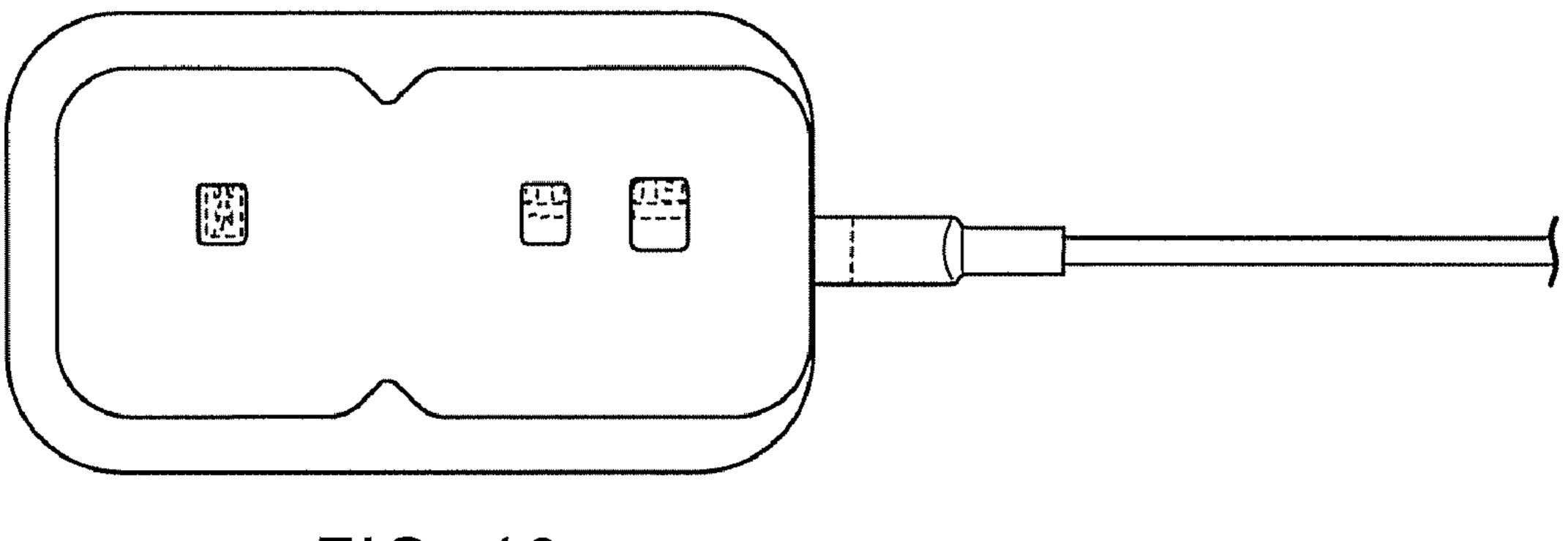
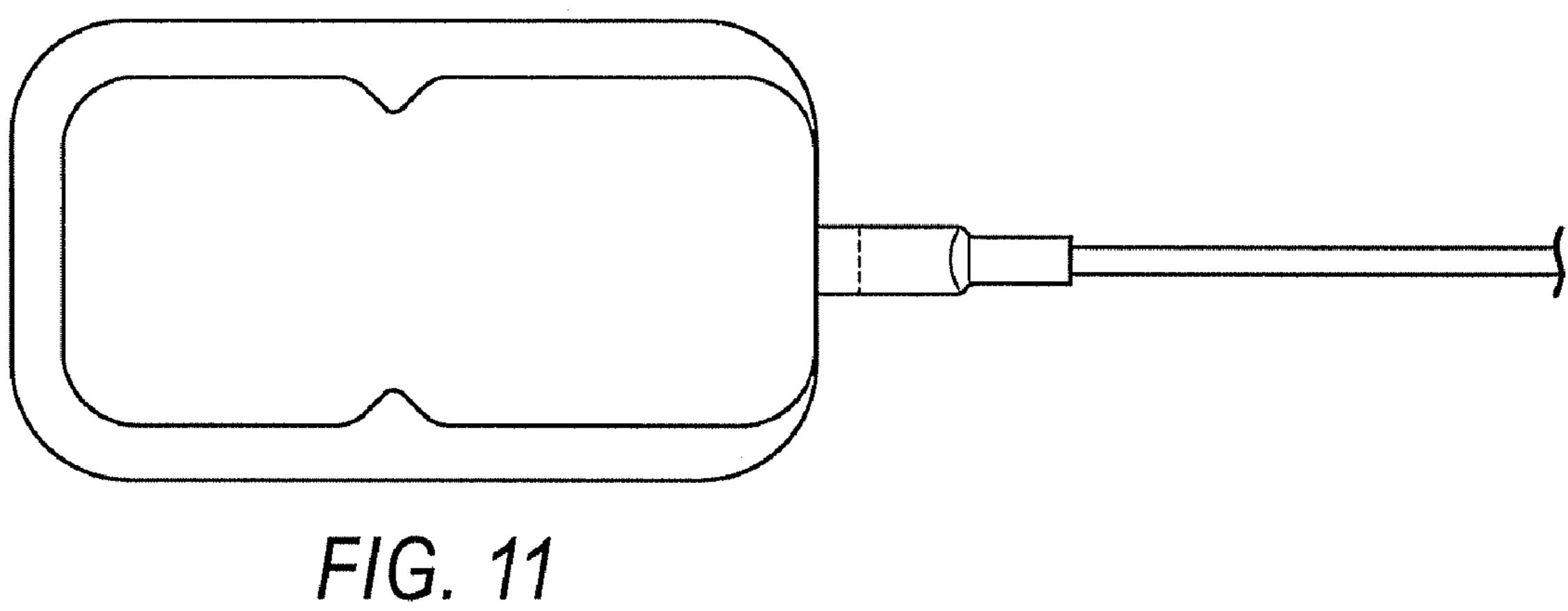
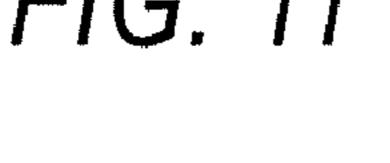


FIG. 10





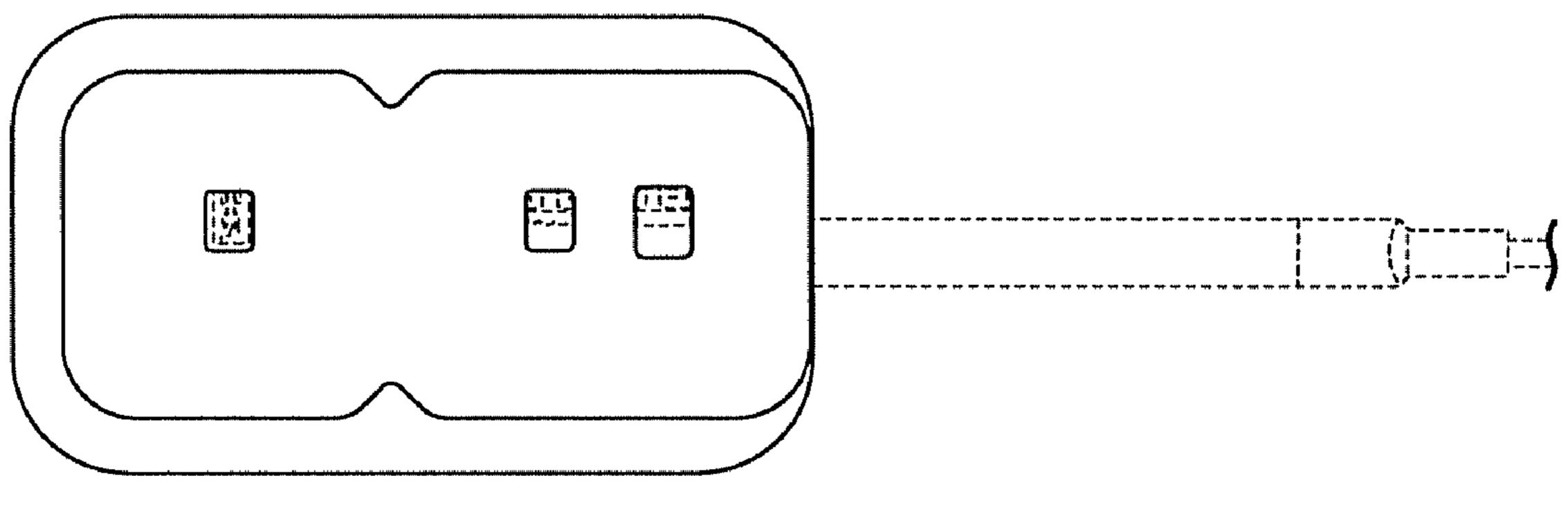
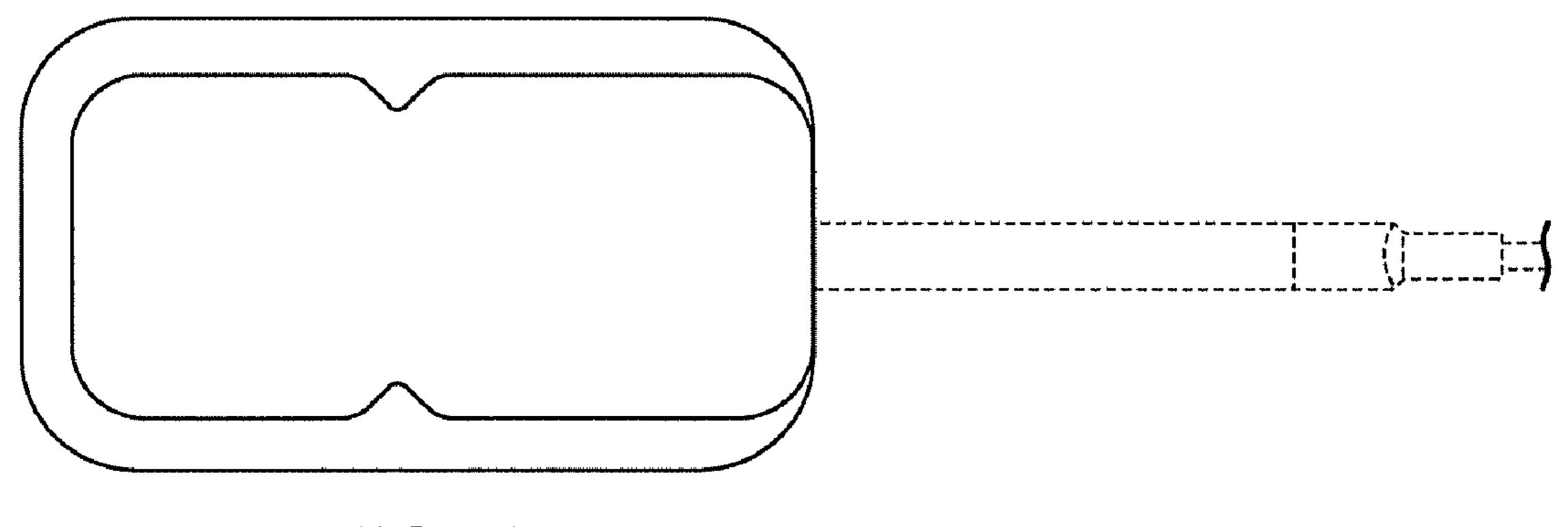


FIG. 12



F/G. 13

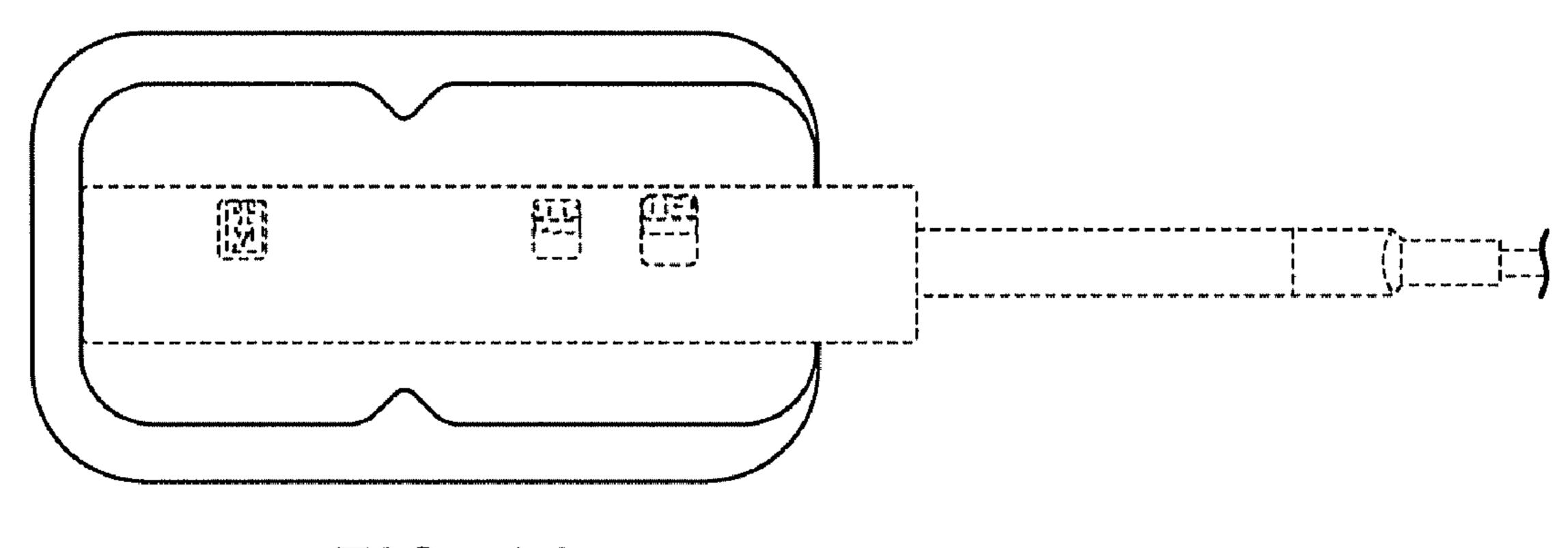
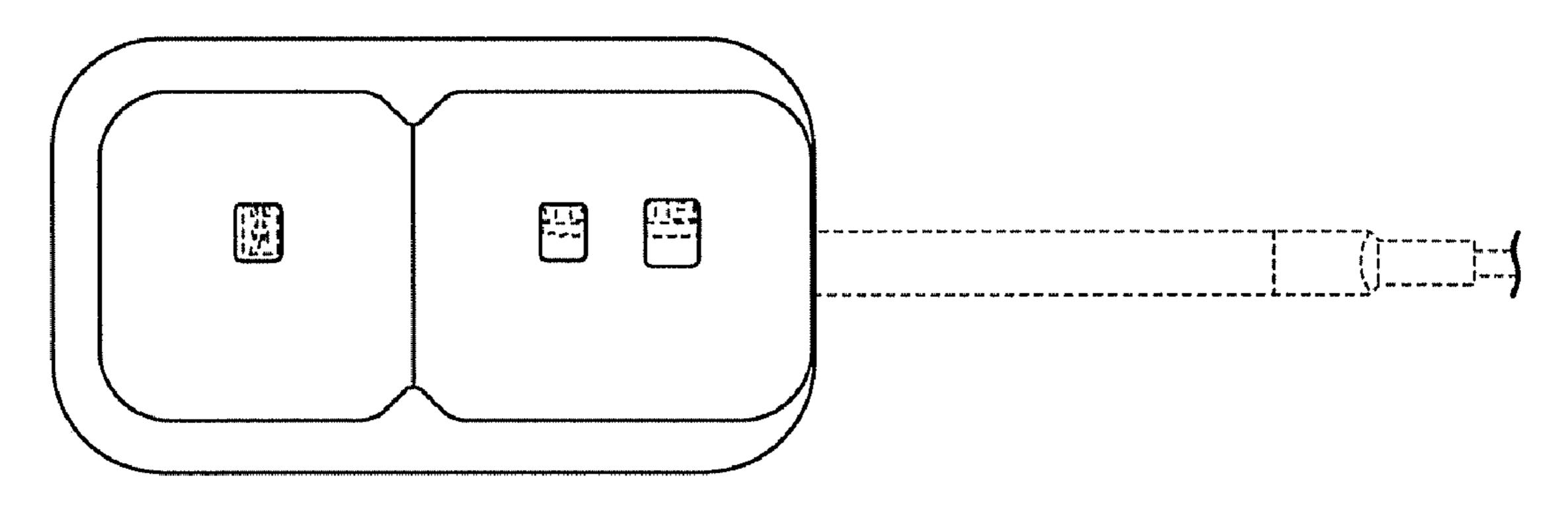


FIG. 14



F/G. 15

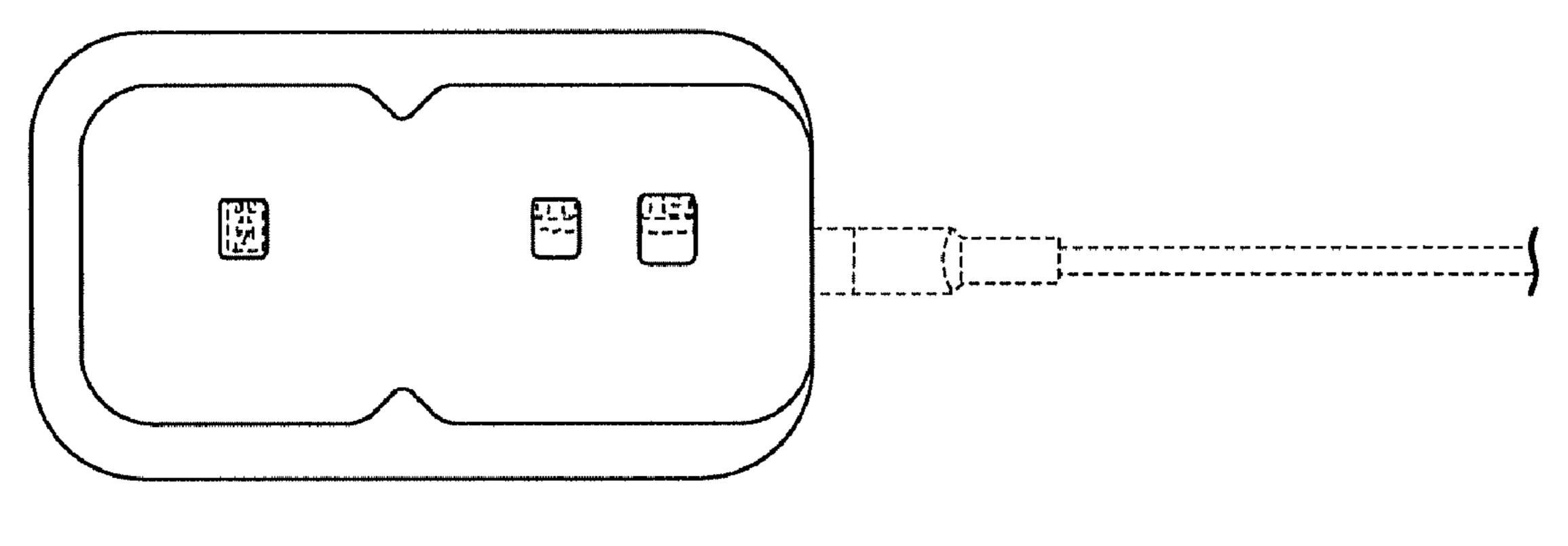


FIG. 16

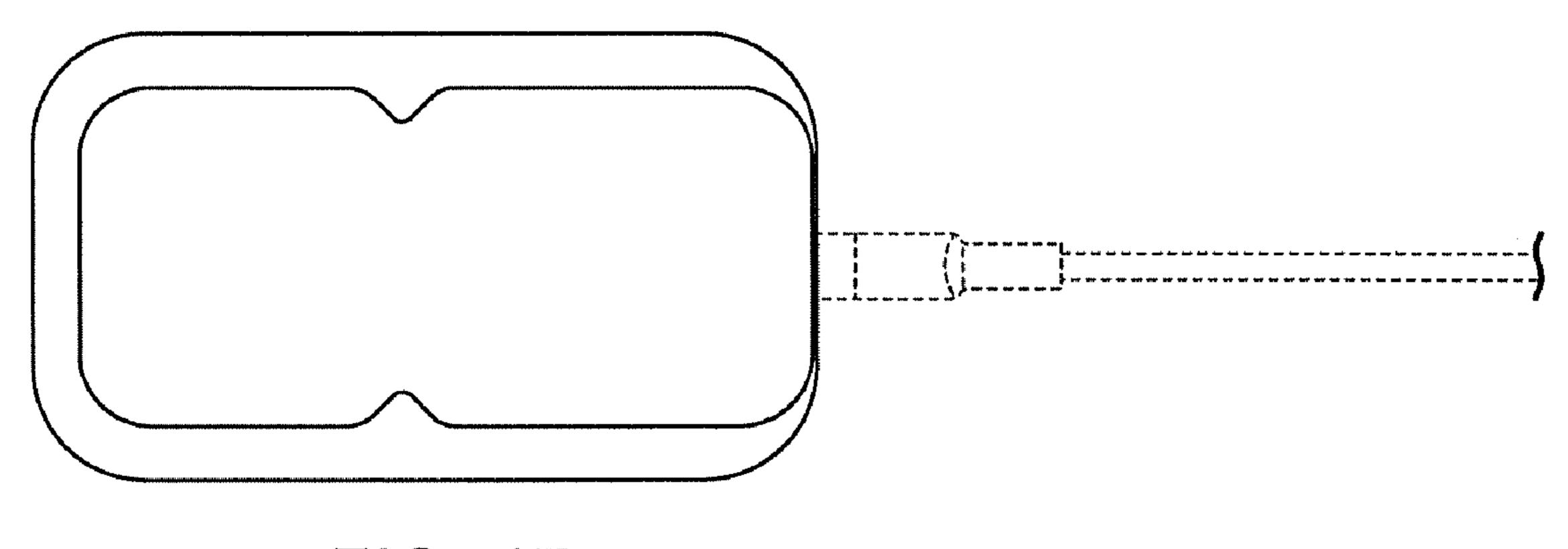


FIG. 17

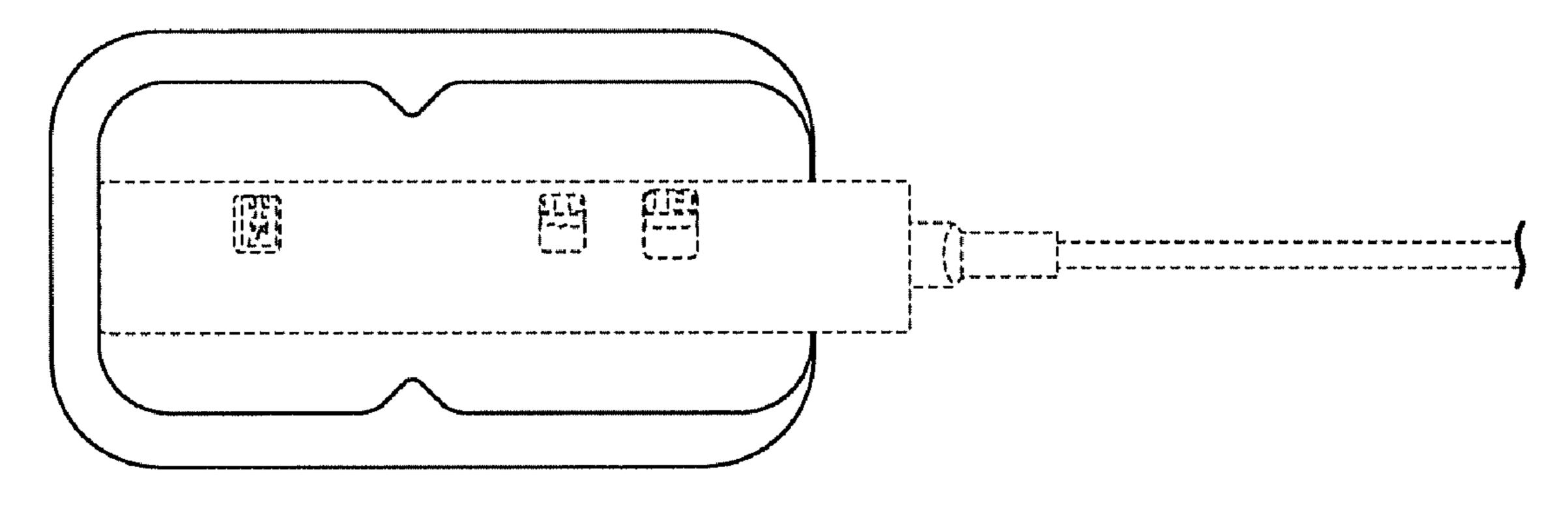
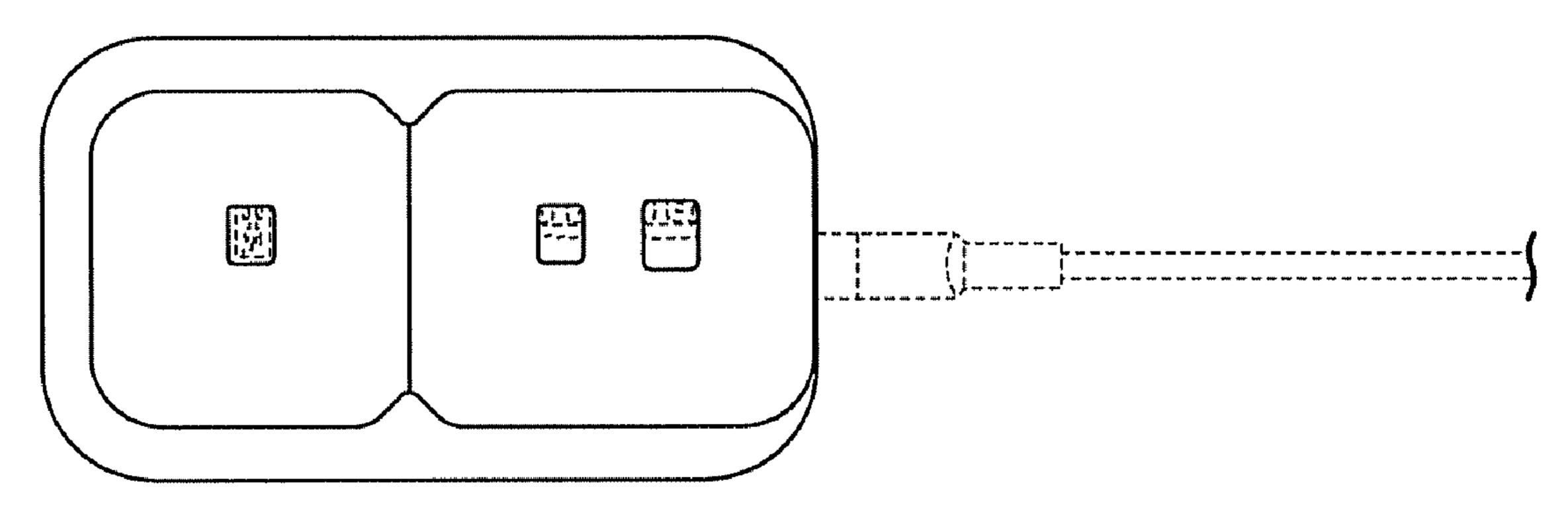


FIG. 18



F/G. 19

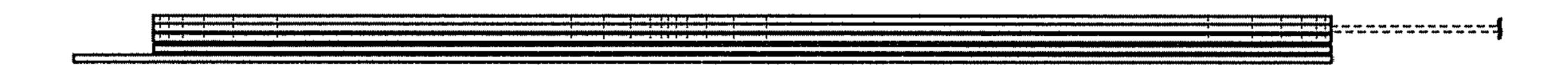
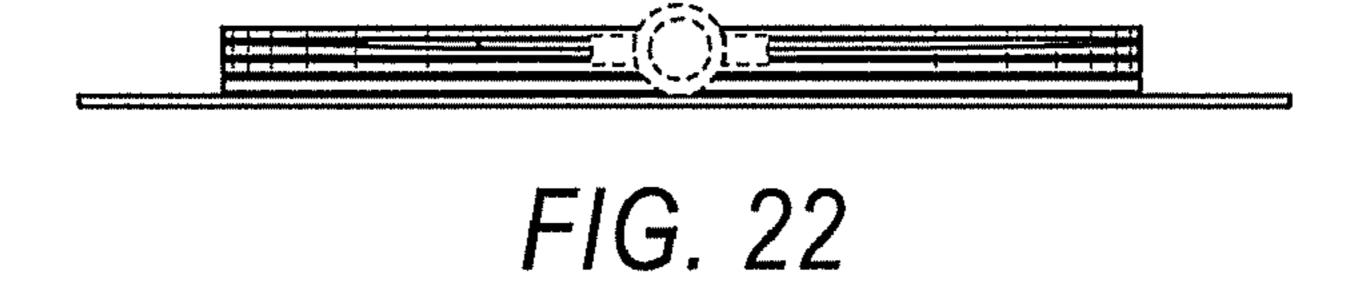
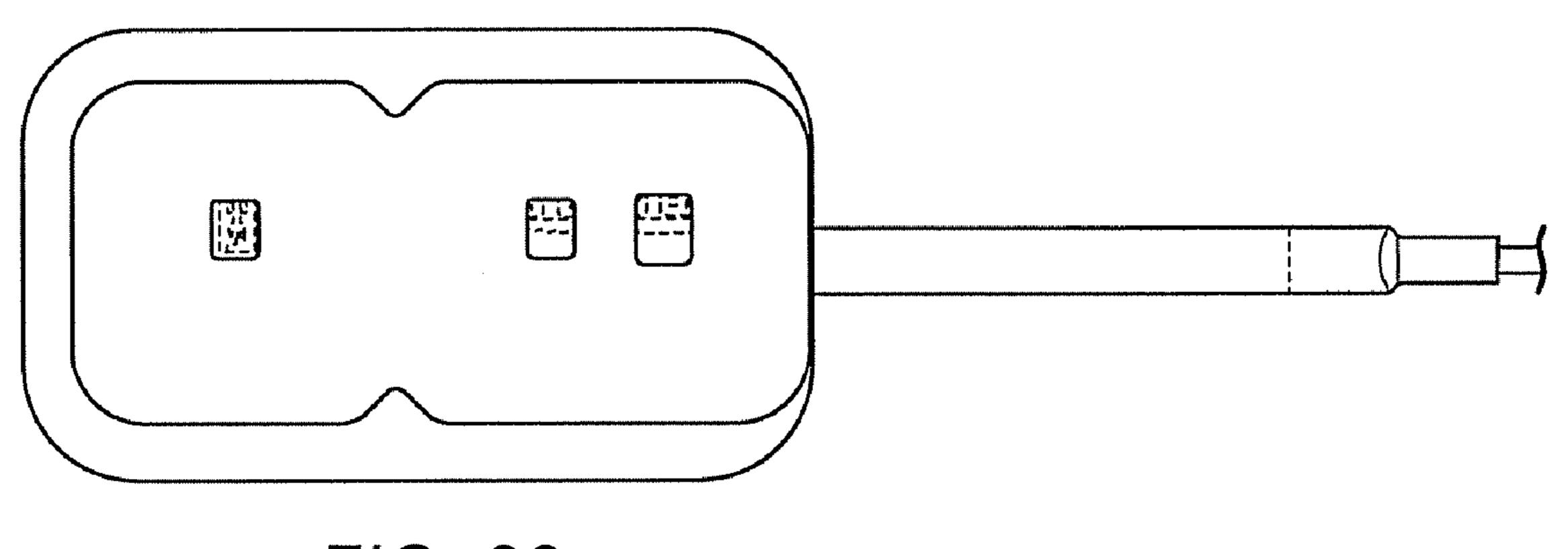


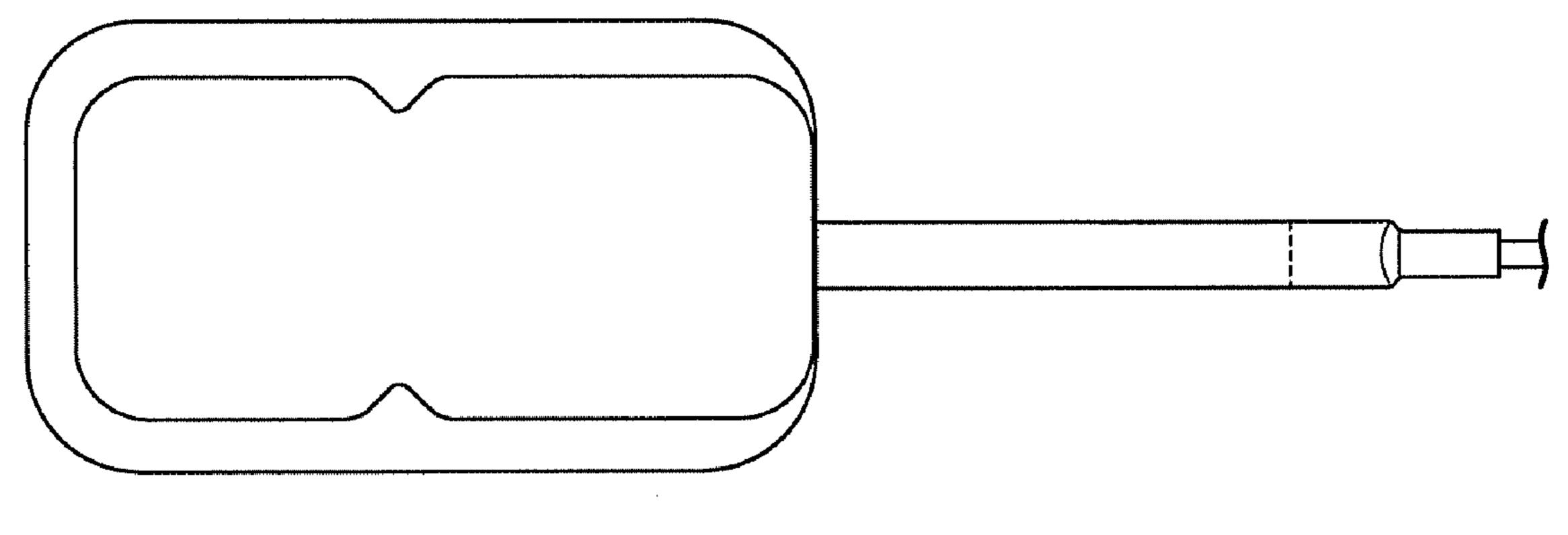
FIG. 20



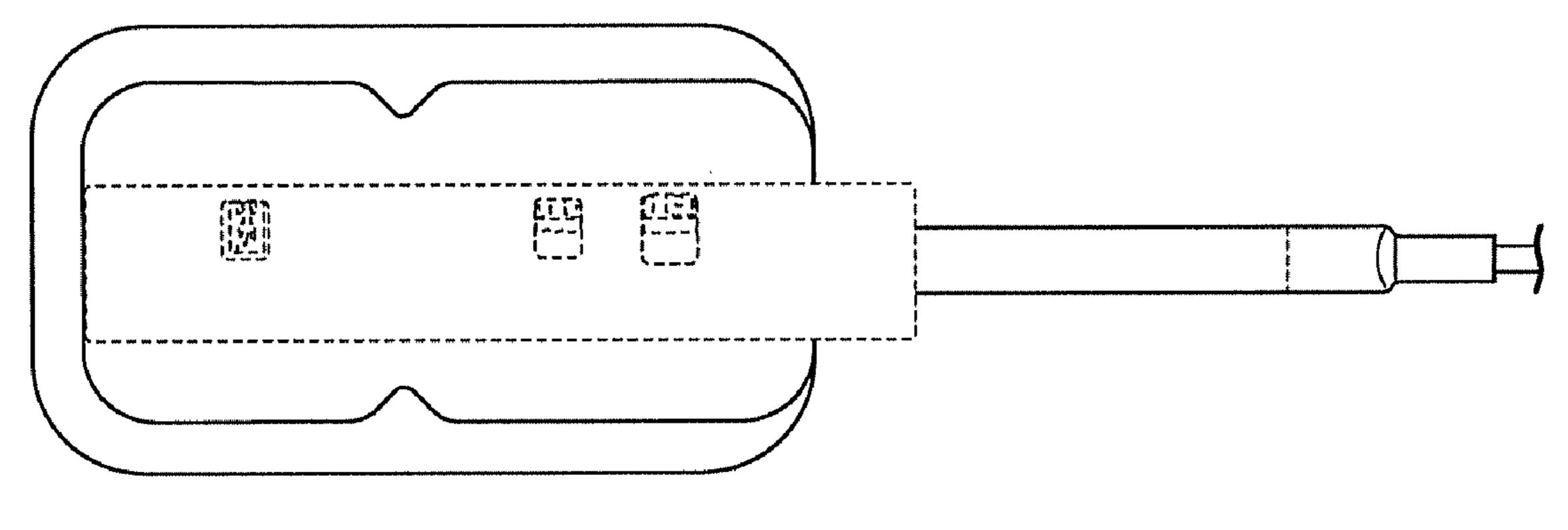




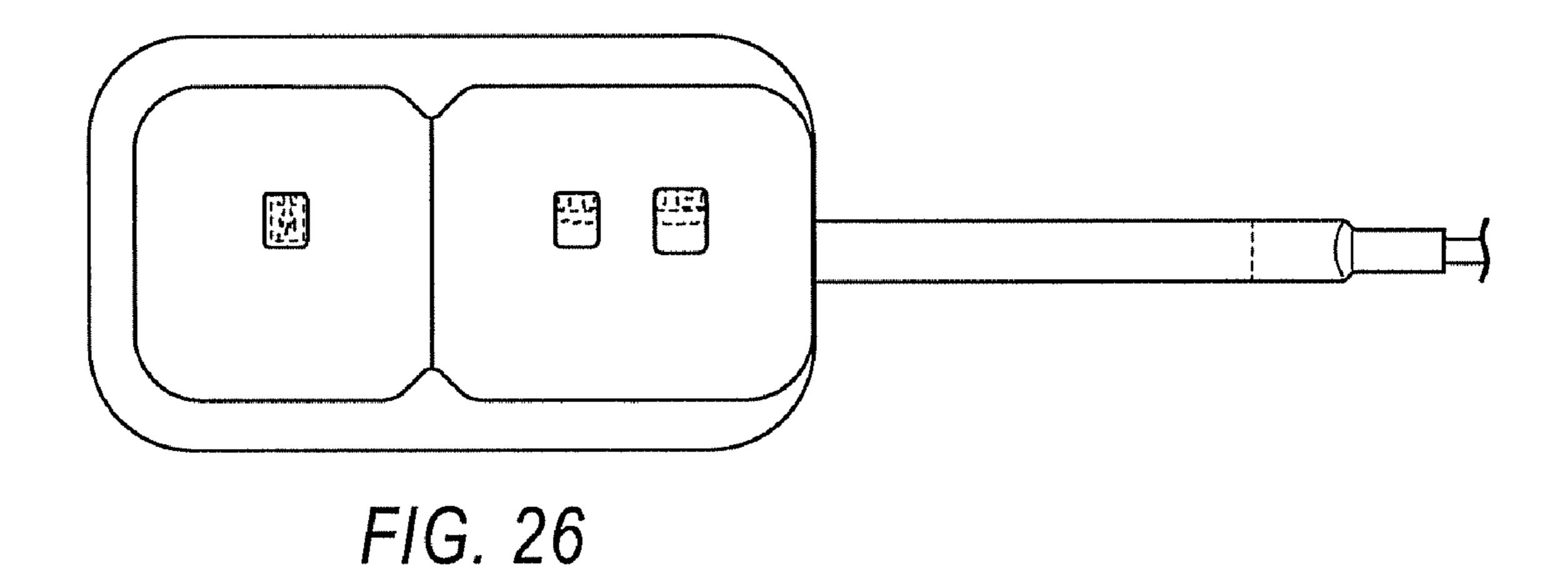
F/G. 23

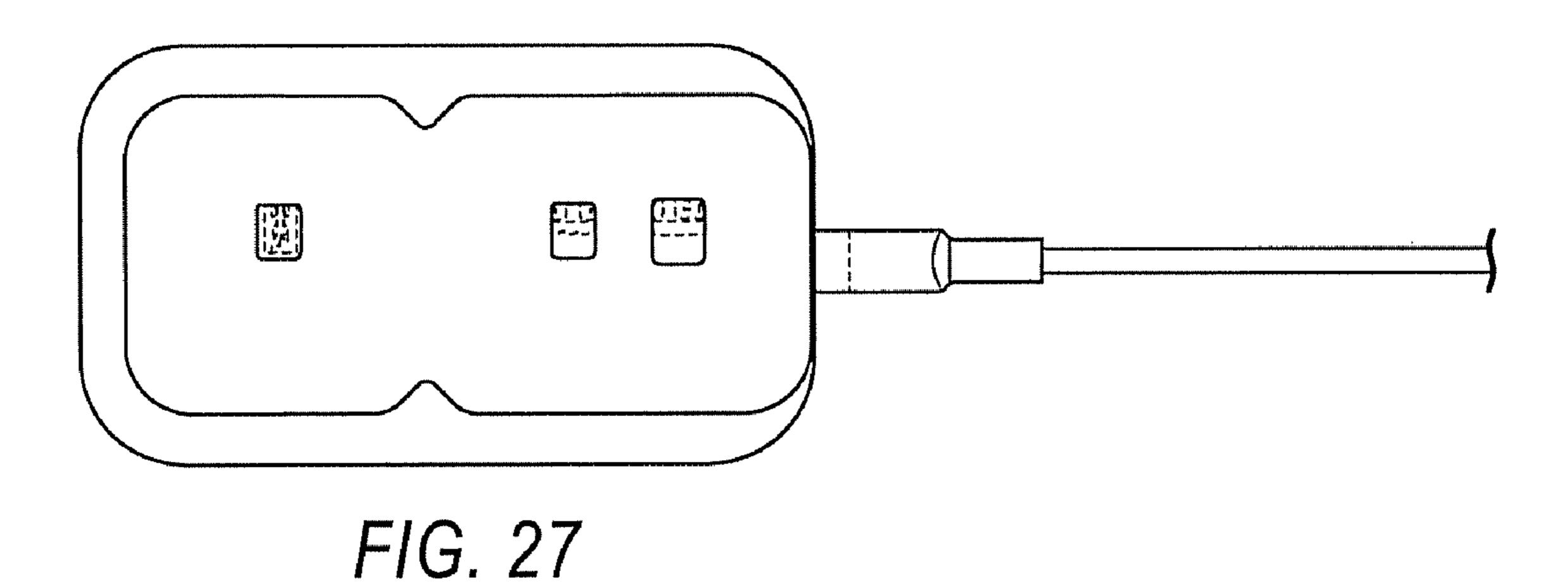


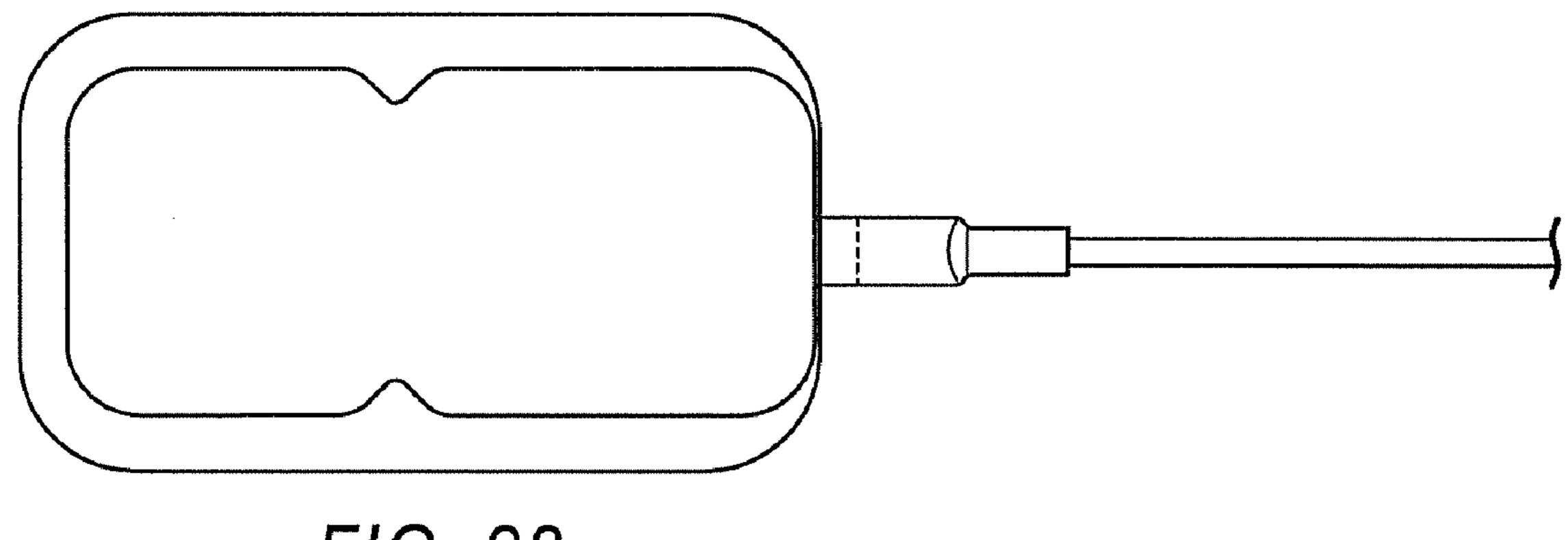
F/G. 24



F/G. 25







F/G. 28

