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(12) **United States Design Patent**
Naka et al.

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(54) **ULTRASONIC PROBE**

FOREIGN PATENT DOCUMENTS

(71) Applicant: **NIHON DEMPA KOGYO CO., LTD.**,
Tokyo (JP)

CN 201430323879 * 9/2014
JP 1386815 5/2010
JP 1386816 5/2010

(72) Inventors: **Yoji Naka**, Saitama (JP); **Takashi Wakabayashi**, Saitama (JP); **Isamu Shimura**, Saitama (JP); **Chao Li**, Saitama (JP)

OTHER PUBLICATIONS

Mindray 3C1s Ultrasound Transducer Probe cable cut. Online, published date unknown. Retrieved on Jul. 16, 2018 from URL: <https://www.ebay.com/itm/MINDRAY-3C1s-Ultrasound-Transducer-Probe-cable-cut-/252354224132>.*

(73) Assignee: **NIHON DEMPA KOGYO CO., LTD.**,
Tokyo (JP)

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

Primary Examiner — Susan Bennett Hattan

Assistant Examiner — Omeed Agilee

(21) Appl. No.: **29/615,532**

(74) *Attorney, Agent, or Firm* — JCIPRNET

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(30) **Foreign Application Priority Data**

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(51) **LOC (11) Cl.** **24-02**

(52) **U.S. Cl.**
USPC **D24/187**

(58) **Field of Classification Search**
USPC D24/133, 137, 138, 141, 144, 158, 160,
D24/164, 165, 167, 170, 186-187;
D10/57, 60, 78, 80; D14/167, 168,
D14/203.1-203.3, 411, 433, 500, 507;
D4/101; D28/49, 50; D13/168, 171
CPC A61B 8/445; A61B 8/4455; A61B 8/4461;
A61B 8/4483; A61B 8/46; A61B 5/0095
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

D405,705 S * 2/1999 Norcross D10/57
D416,819 S * 11/1999 Luebke D10/78
D420,924 S * 2/2000 Tseng D10/57

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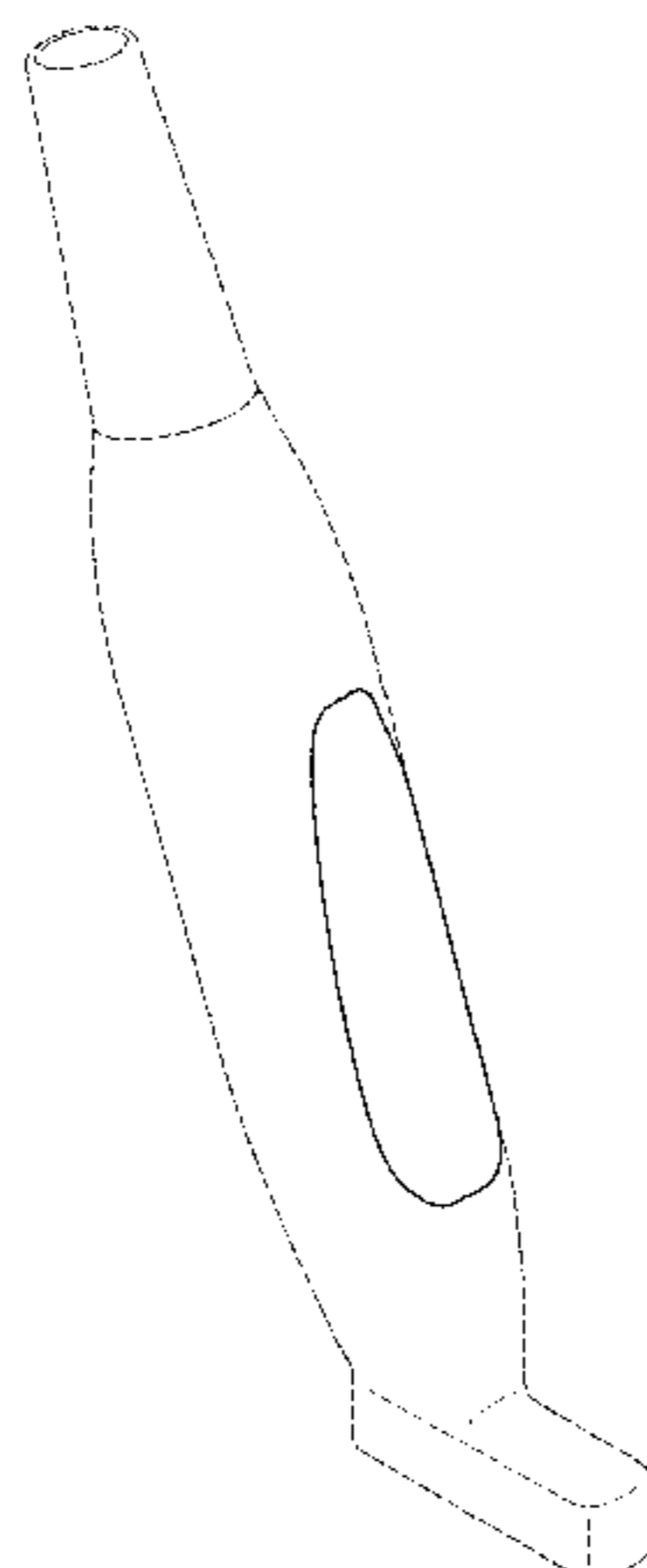
(57) **CLAIM**

The ornamental design for an ultrasonic probe, as shown and described.

DESCRIPTION

FIG. 1 is a perspective view of an ultrasonic probe showing our new design;
FIG. 2 is a front view thereof, the rear view being a mirror image of FIG. 2;
FIG. 3 is a left side view thereof;
FIG. 4 is a right side view thereof;
FIG. 5 is a top view thereof;
FIG. 6 is a bottom view thereof;
FIG. 7 is an enlarged end view of the cross-section thereof with the internal parts omitted, taken along the line 7-7 of FIG. 2;
FIG. 8 is a cross-section view thereof with the internal parts omitted, taken along the line 8-8 of FIG. 4; and,
FIG. 9 is a perspective view thereof showing the ultrasonic probe of FIG. 1 in a position of use.
The evenly dashed lines in FIGS. 1-9 depict portions of the ultrasonic probe that form no part of the claimed design. The

(Continued)



dot-dashed lines in FIG. 9 depict environmental subject matter that forms no part thereof.

1 Claim, 7 Drawing Sheets

(56)

References Cited

U.S. PATENT DOCUMENTS

D486,137 S *	2/2004	Chen	.....	D14/168
D493,530 S *	7/2004	Reschke	.....	D24/144
D514,963 S *	2/2006	Shionoiri	.....	D10/78
D521,641 S *	5/2006	Reschke	.....	D24/144
D530,233 S *	10/2006	Janky	.....	D10/78
D539,178 S *	3/2007	Nakada	.....	D10/57
D554,267 S *	10/2007	Cohen	.....	D24/187
D571,465 S *	6/2008	Koros	.....	D24/133
D630,747 S *	1/2011	Shinohara	.....	D24/137
D630,854 S *	1/2011	Lozov	.....	D4/101
D642,564 S *	8/2011	Busri	.....	D10/78
D701,964 S *	4/2014	Yoneta	.....	D24/187
D704,341 S *	5/2014	Ryu	.....	D24/187

D723,396 S *	3/2015	Chen	.....	D10/57
D737,701 S *	9/2015	Payne	.....	D10/78
D754,205 S *	4/2016	Nguyen	.....	D14/203.3
D758,015 S *	5/2016	Prat-Pfister	.....	D28/50
D758,660 S *	6/2016	Prat-Pfister	.....	D28/50
D760,099 S *	6/2016	Payne	.....	D10/78
D782,054 S *	3/2017	Lim	.....	D24/187
D802,777 S *	11/2017	Burachynsky	.....	D24/187
D818,594 S *	5/2018	Asai	.....	D24/187
2004/0010233 A1 *	1/2004	Hjertman	.....	A61M 5/3129 604/187

OTHER PUBLICATIONS

4V1C Adult Cardiac Array Ultrasound Probe / Transducer. Online, published date Apr. 27, 2014. Retrieved on Jul. 23, 2018 from URL: <https://www.absolutemed.com/4v1c-adult-cardiac-array-ultrasound-probe-transducer.htm>.*

Ultra Solutions, "Atoka ProSound SSD-5500 Ultrasound Machine," Oct. 23, 2017, Available at: <http://www.ultrasolutions.com/aloka-prosound-ssd-5500-ultrasound-machine>.

* cited by examiner

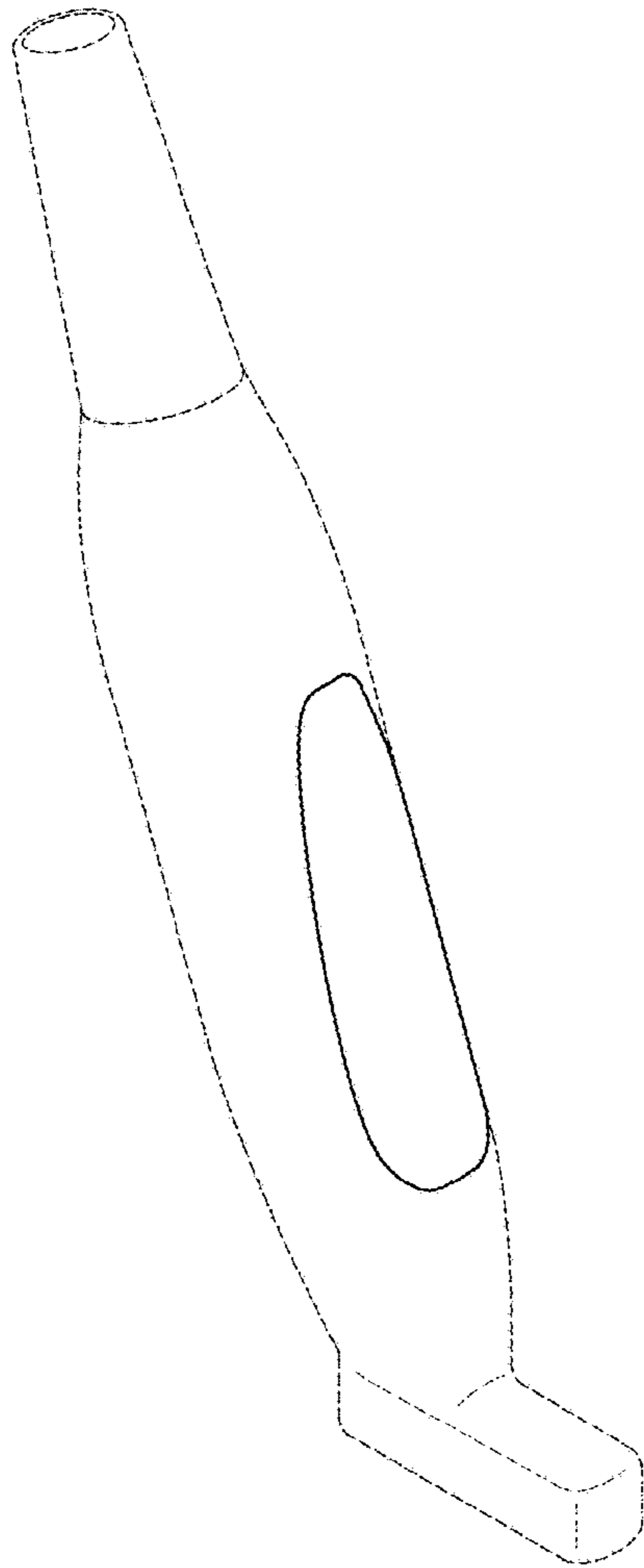


FIG. 1

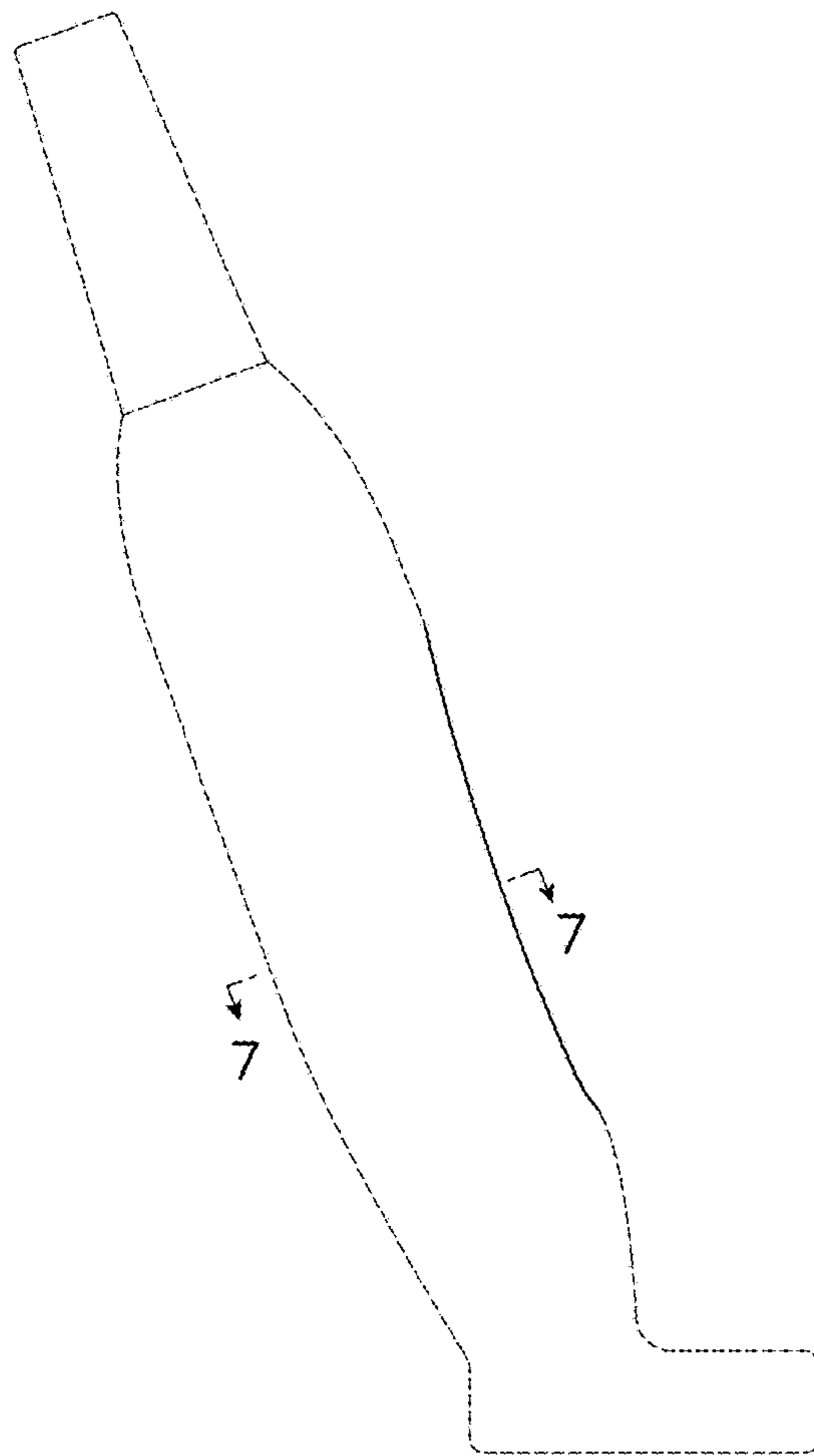


FIG. 2

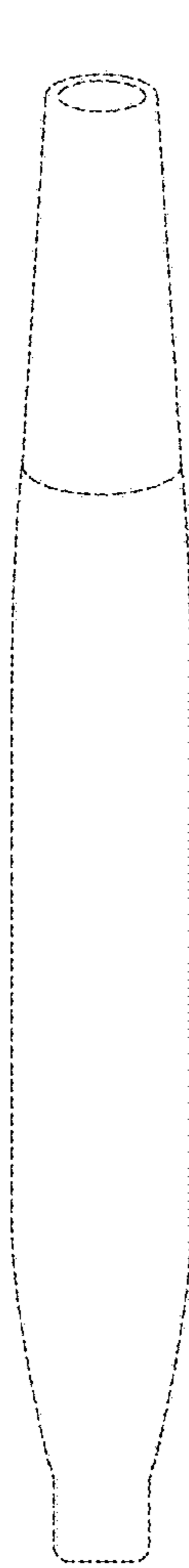


FIG. 3

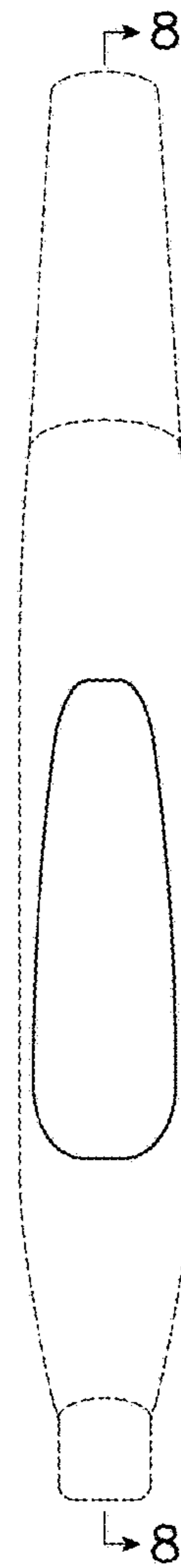


FIG. 4

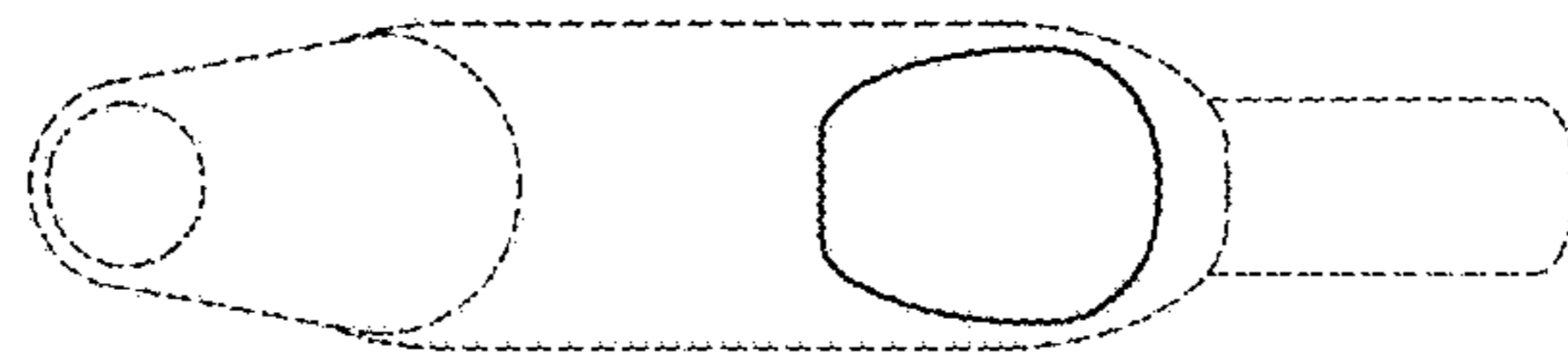


FIG. 5

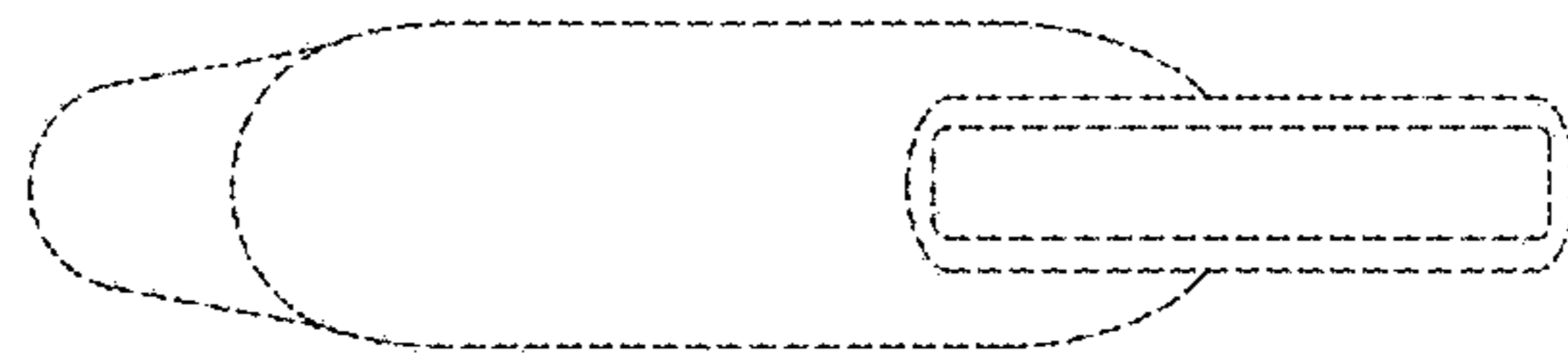


FIG. 6

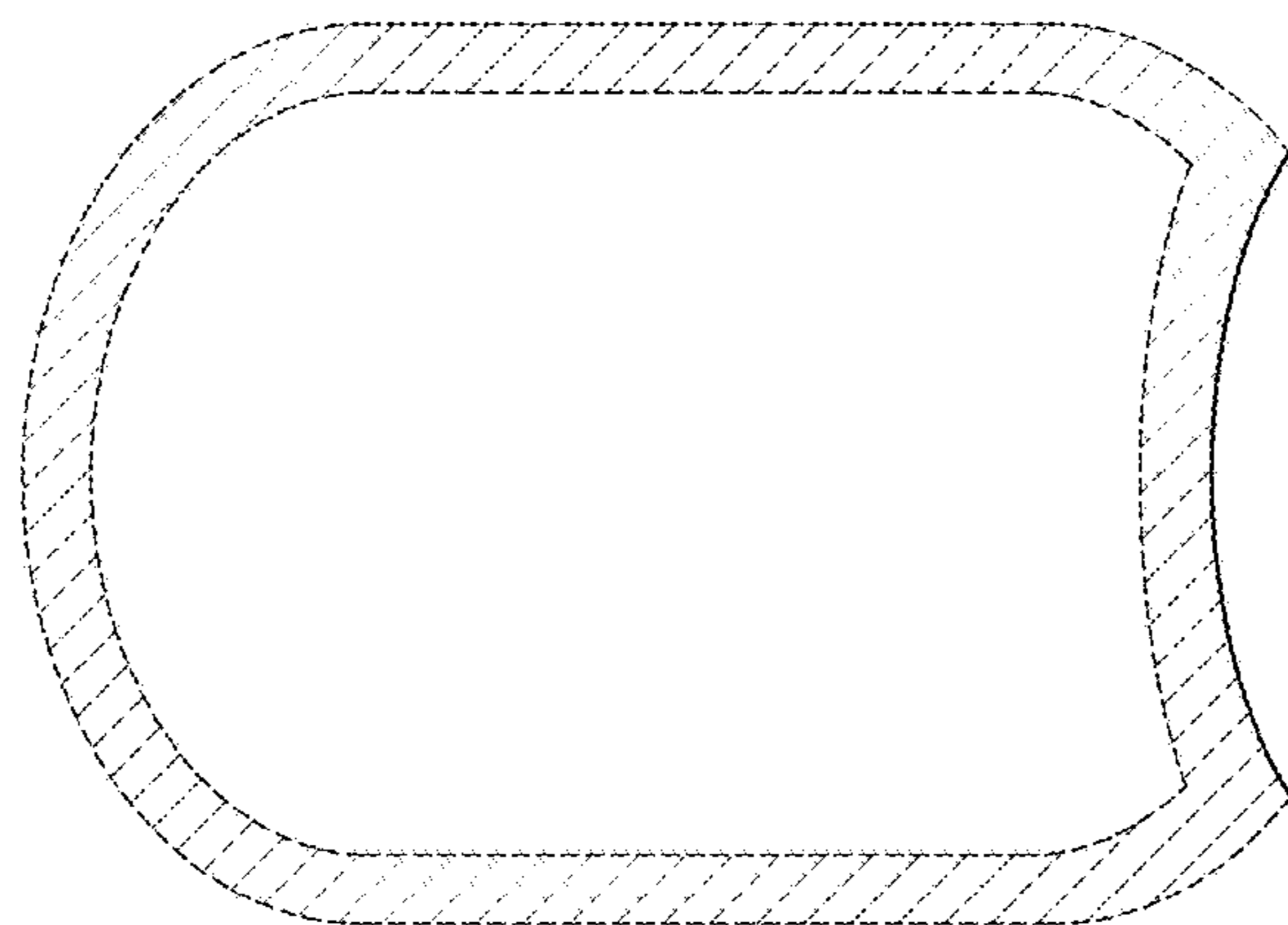


FIG. 7

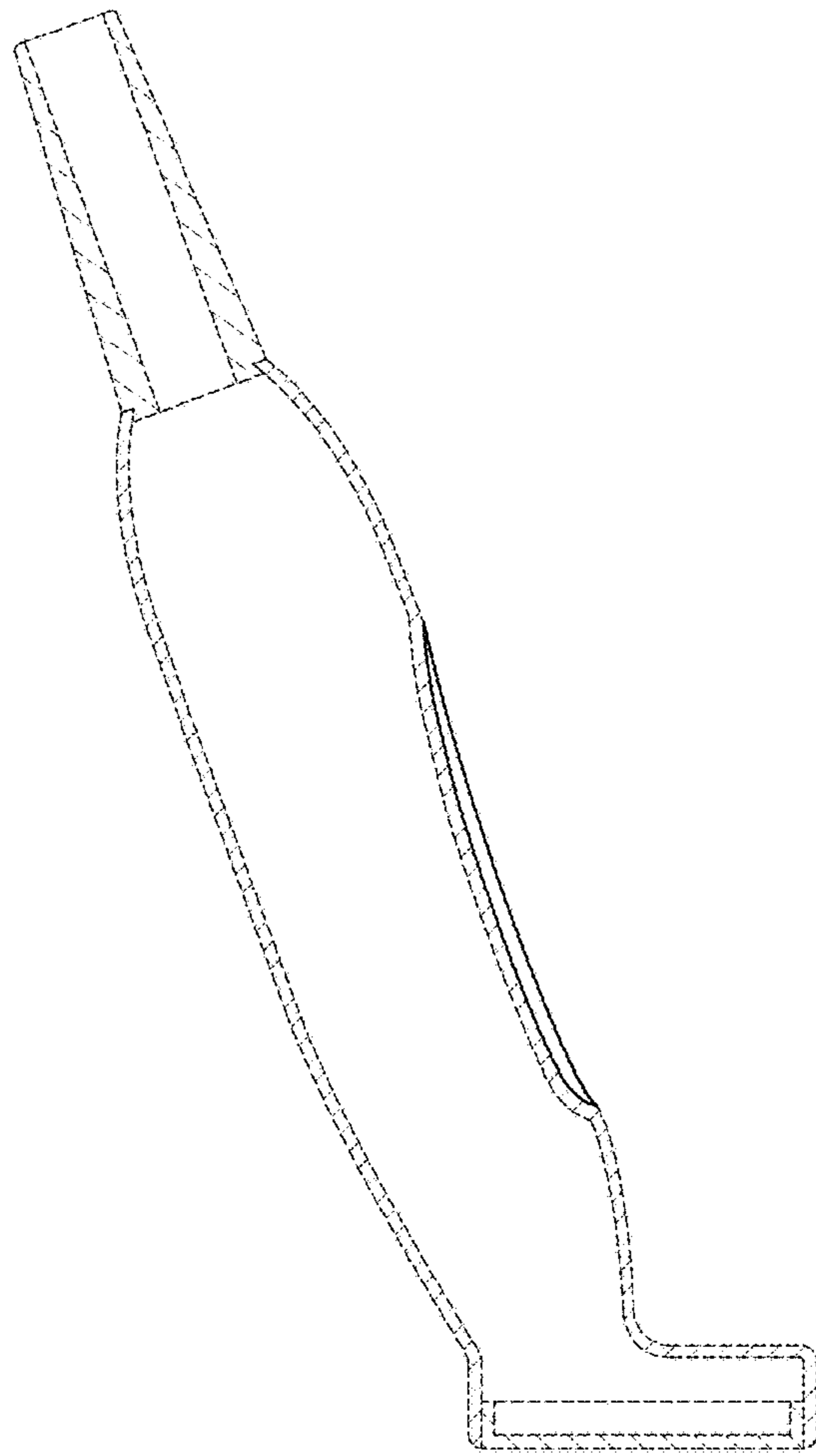


FIG. 8

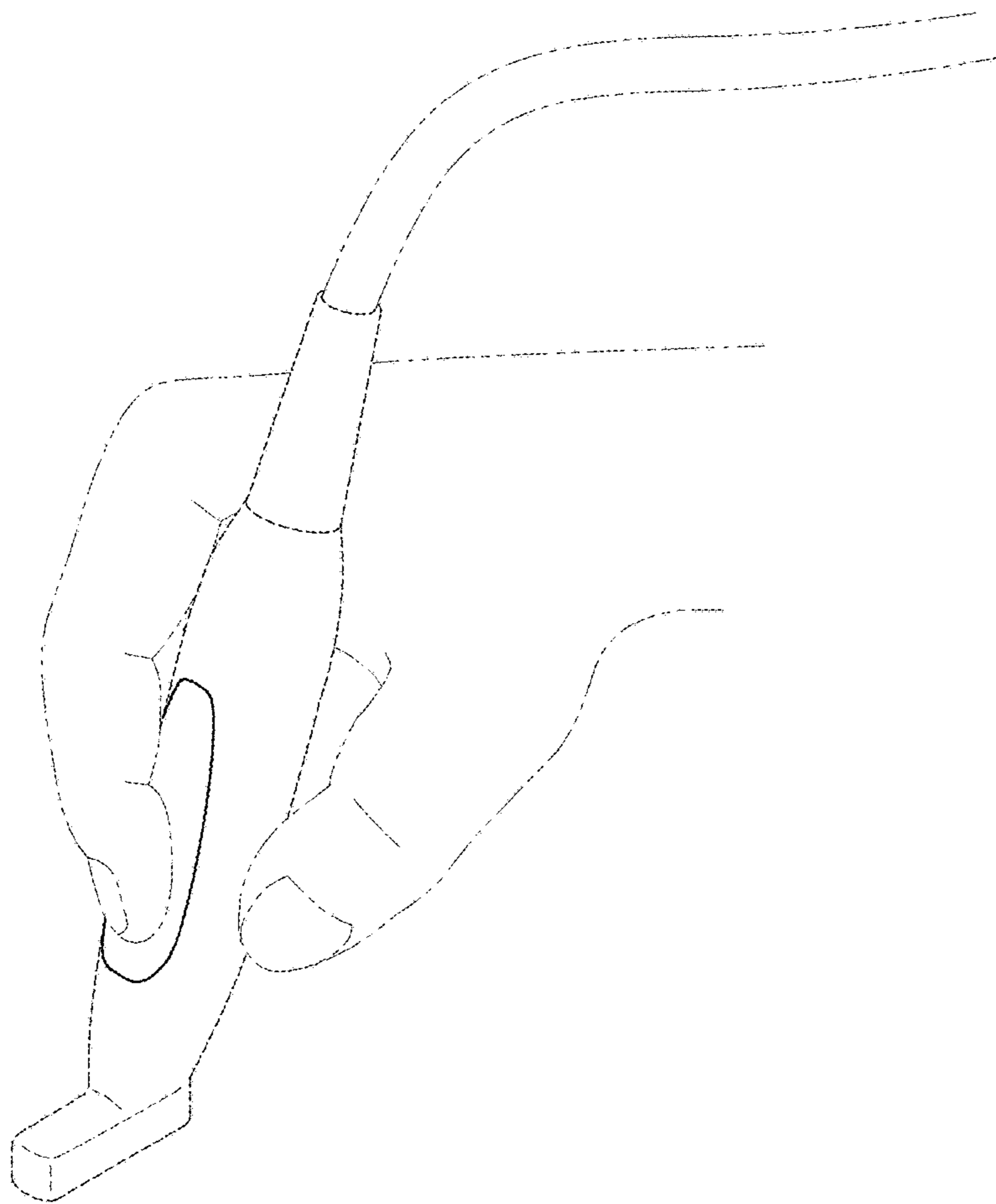


FIG. 9