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(12) **United States Design Patent** (10) **Patent No.:** **US D837,391 S**  
**Naka et al.** (45) **Date of Patent:** **\*\* Jan. 1, 2019**

(54) **ULTRASONIC PROBE**

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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 ..... D24/186-187, 144, 200; D10/78  
CPC ..... A61B 1/00142; A61B 1/0052; A61B 17/22004; A61B 17/22012; A61B 17/2202; A61B 17/320068; A61B 17/320092; A61B 17/3403; A61B 5/02007; A61B 5/6842; A61B 8/00; A61B 8/06; A61B 8/08; A61B 8/0825; A61B 8/0833; A61B 8/0841; A61B 8/0858; A61B 8/0875; A61B 8/10; A61B 8/12; A61B 8/14; A61B 8/42; A61B 8/4209; A61B 8/4272; A61B 8/4281; A61B 8/4405; A61B 8/4411; A61B 8/4427; A61B 8/4444; A61B 8/445; A61B 8/4455; A61B 8/4461; A61B 8/4483; A61B 8/4488; A61B 8/4494; A61B 8/463; A61B 8/546

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

D343,801 S \* 2/1994 Burns ..... D10/78  
D369,307 S \* 4/1996 Imling ..... D10/78

(Continued)

FOREIGN PATENT DOCUMENTS

CN 304508902 2/2018  
EP 004154102-0001 8/2017

(Continued)

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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 with the rear view being a mirror image thereof;

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;

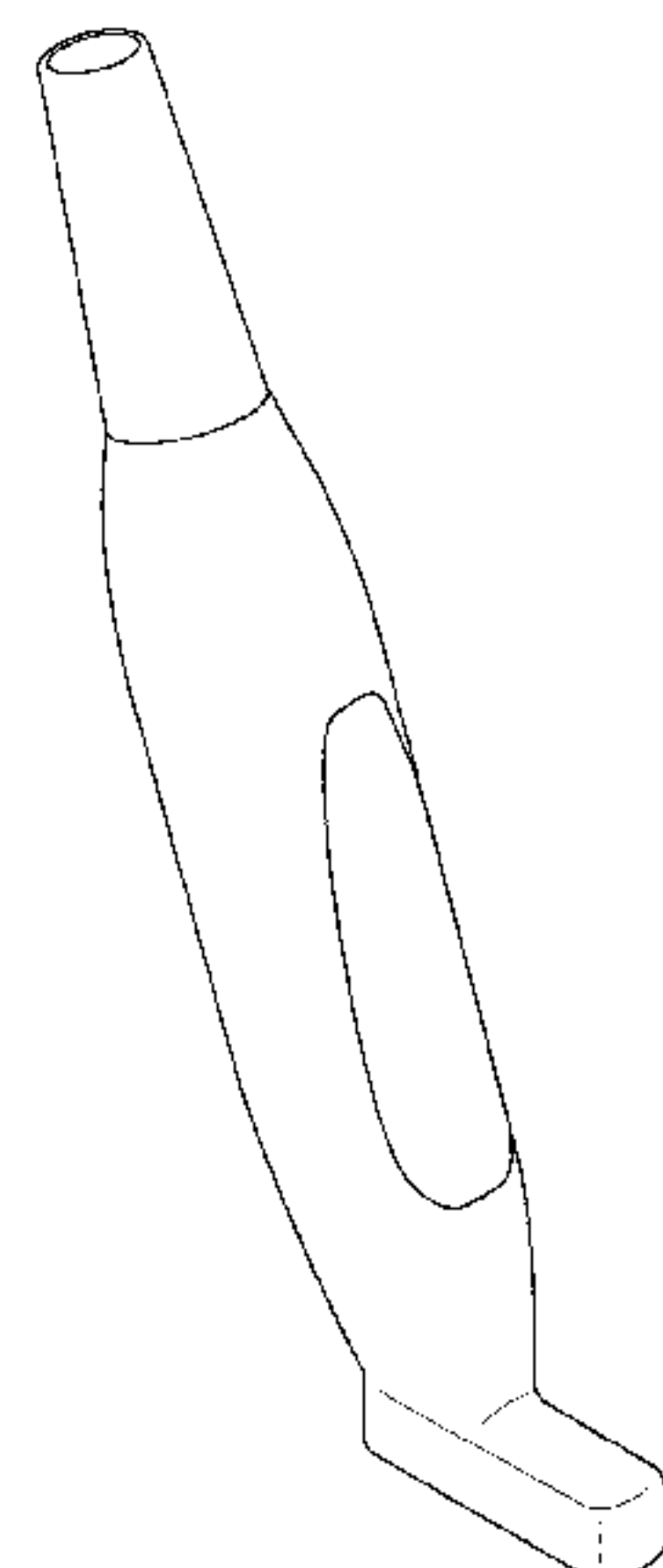
FIG. 8 is a cross-section view thereof with the internal parts omitted, taken along the line 8-8 of FIG. 4; and,

FIG. 9 is a reference view thereof showing a user uses the ultrasonic probe of the claimed design.

The dot-dashed lines in FIG. 9 represent the environment of the claimed design in the use state and form no part thereof.

The dashed broken lines depict portions of the ultrasonic probe and form no part of the claim.

**1 Claim, 7 Drawing Sheets**



(56)

**References Cited**

U.S. PATENT DOCUMENTS

5,779,639 A \* 7/1998 Yeung ..... A61B 8/4461  
600/446  
D536,450 S \* 2/2007 Ryan ..... D24/144  
D550,365 S \* 9/2007 Kitayama ..... D24/186  
D623,755 S \* 9/2010 Ikegame ..... D24/186  
2015/0374331 A1\* 12/2015 Cho ..... A61B 8/4444  
600/462

FOREIGN PATENT DOCUMENTS

EP 004154102-0002 8/2017  
JP 1095570 1/2001  
JP 1100193 2/2001  
JP 1593696 12/2017  
JP 1593697 12/2017

\* cited by examiner

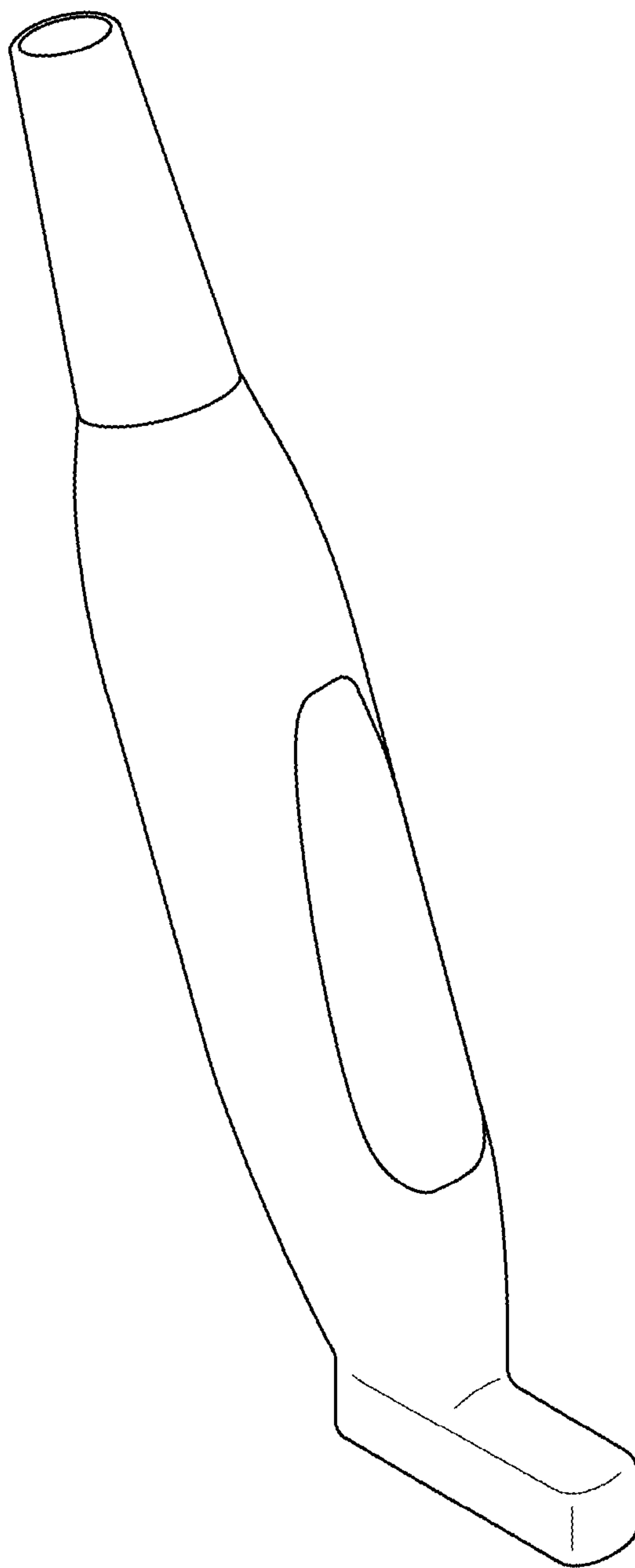


FIG. 1

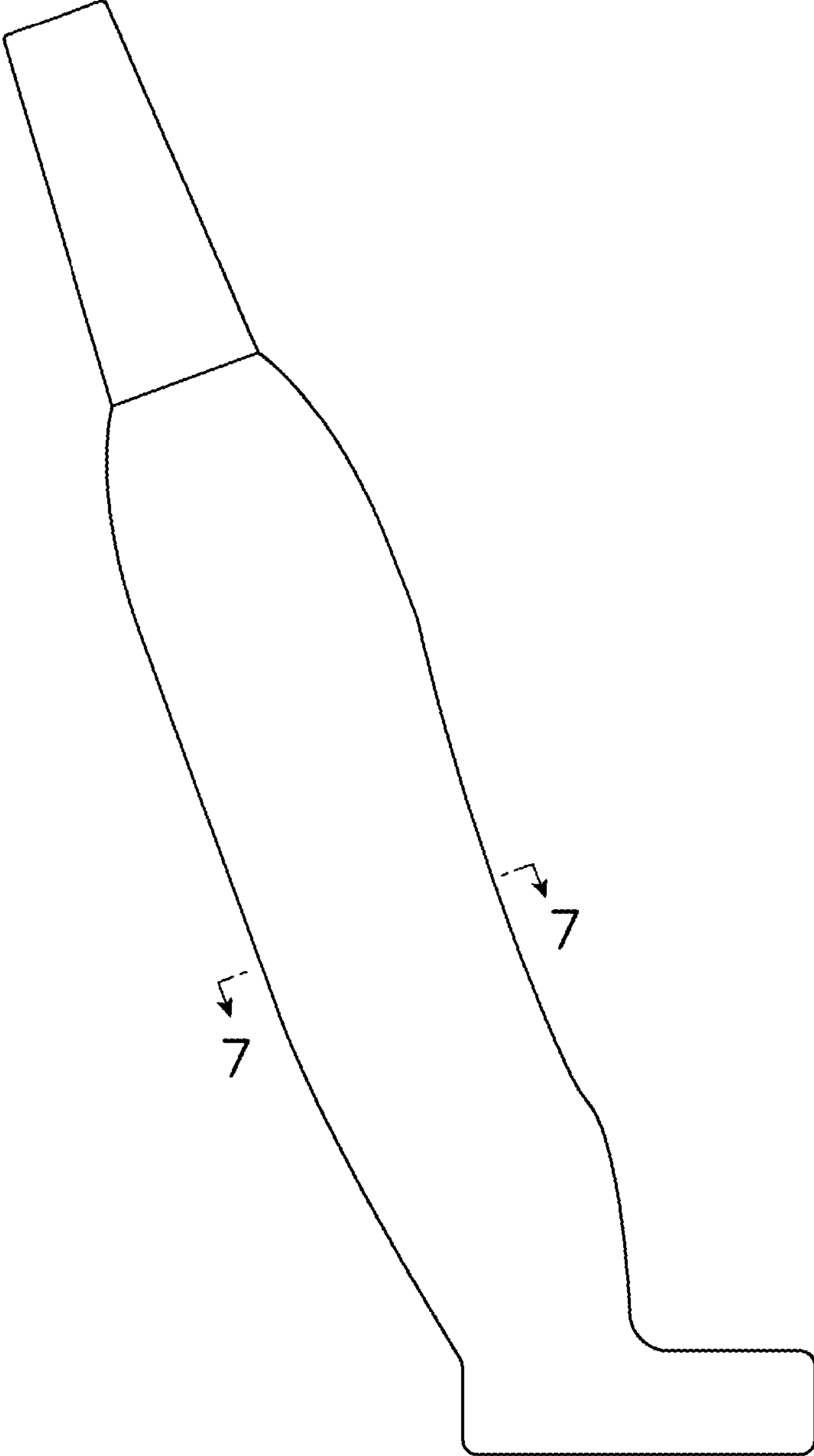


FIG. 2

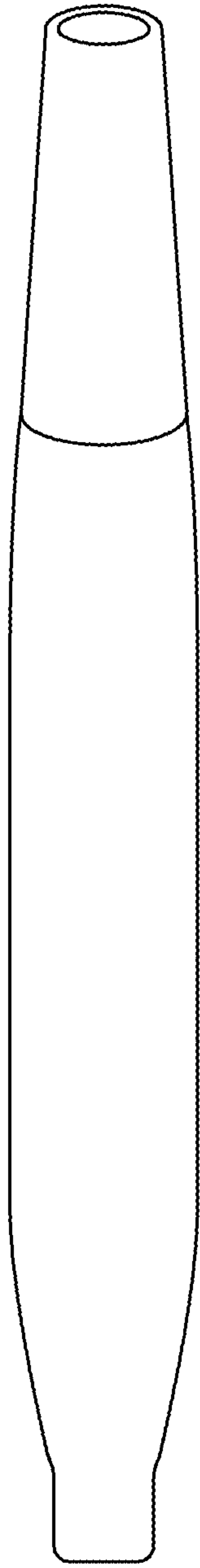


FIG. 3

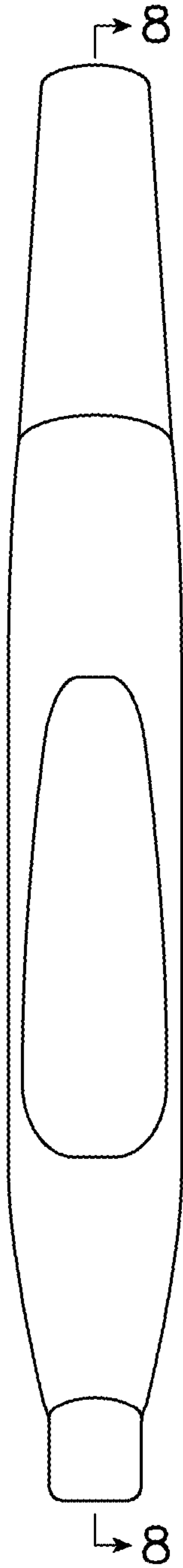


FIG. 4

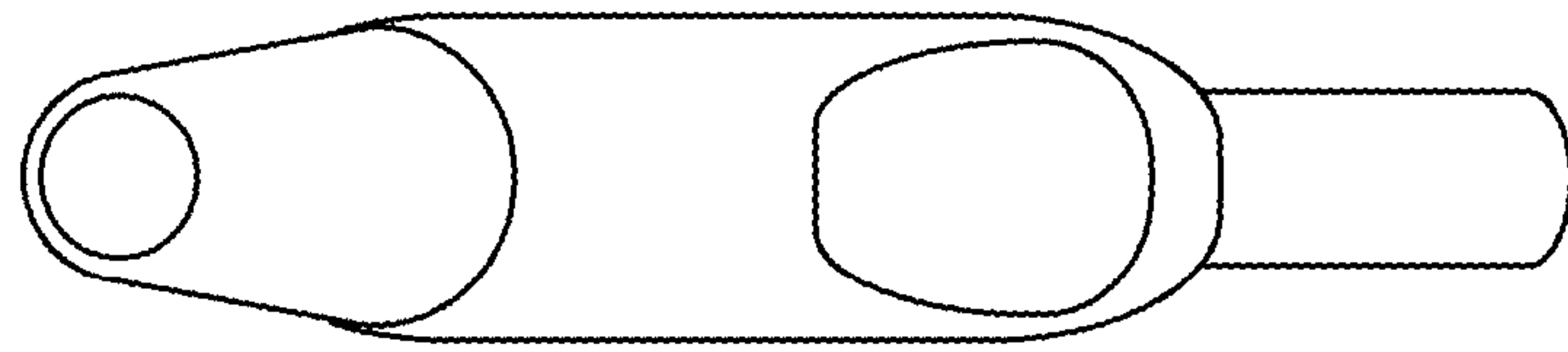


FIG. 5

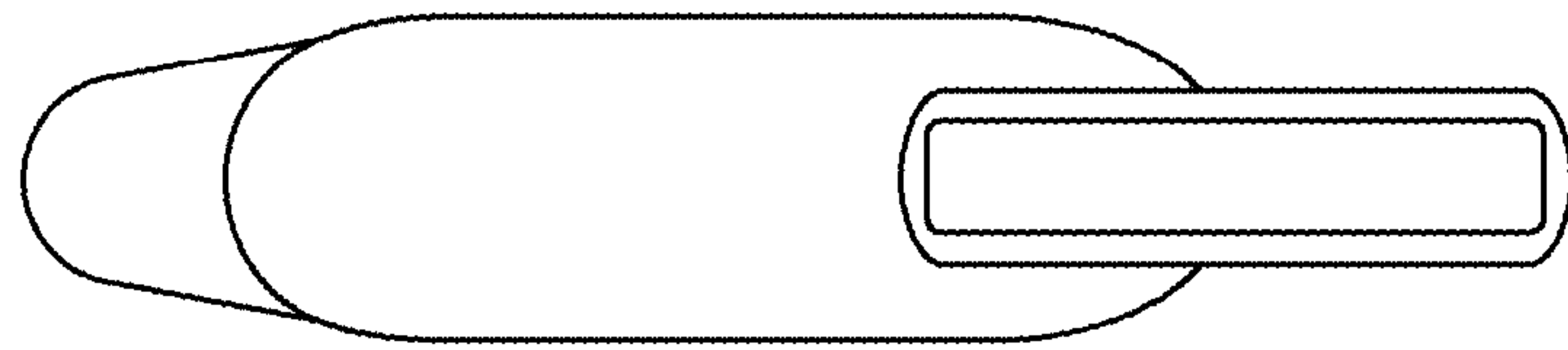


FIG. 6

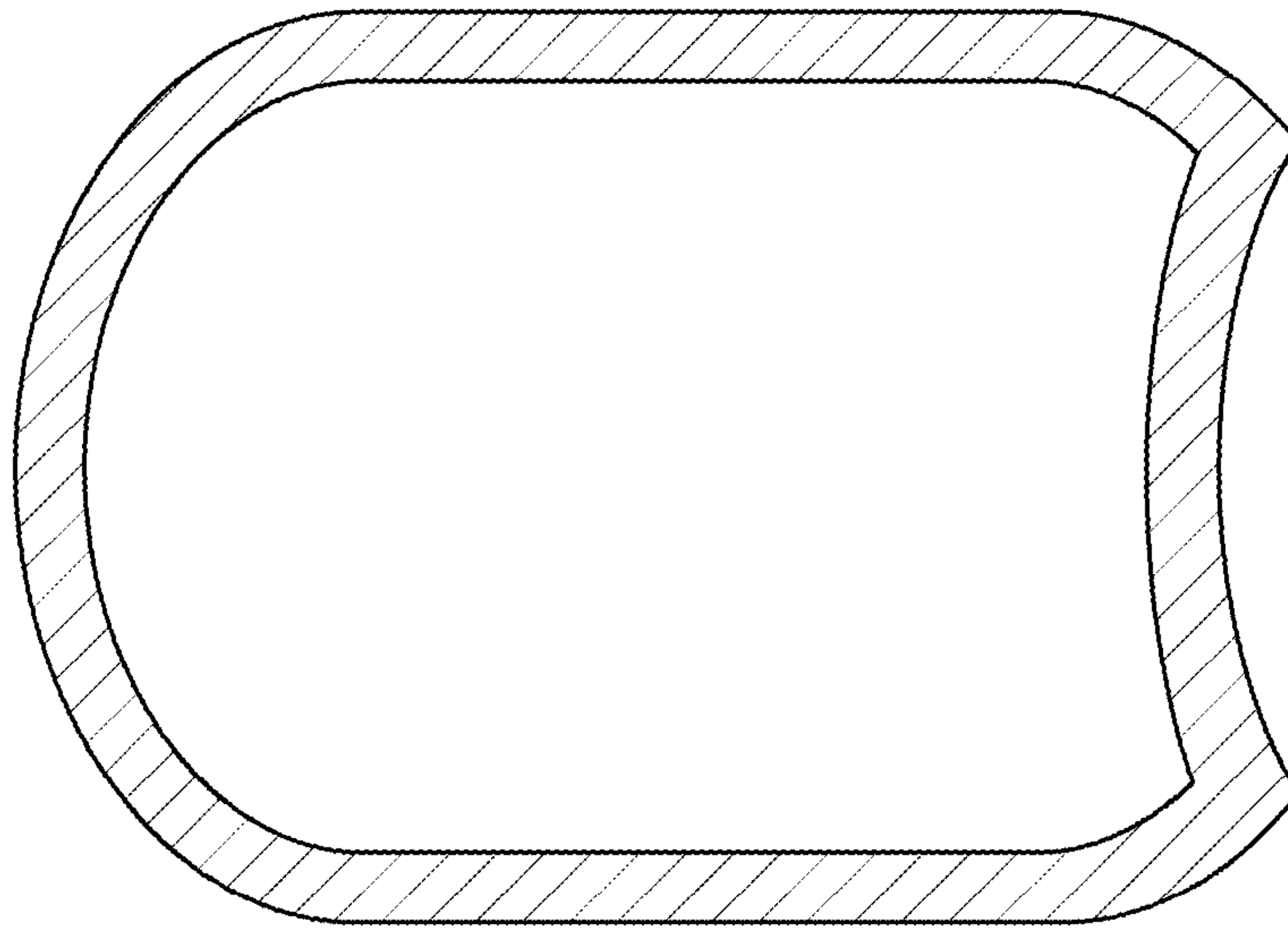


FIG. 7

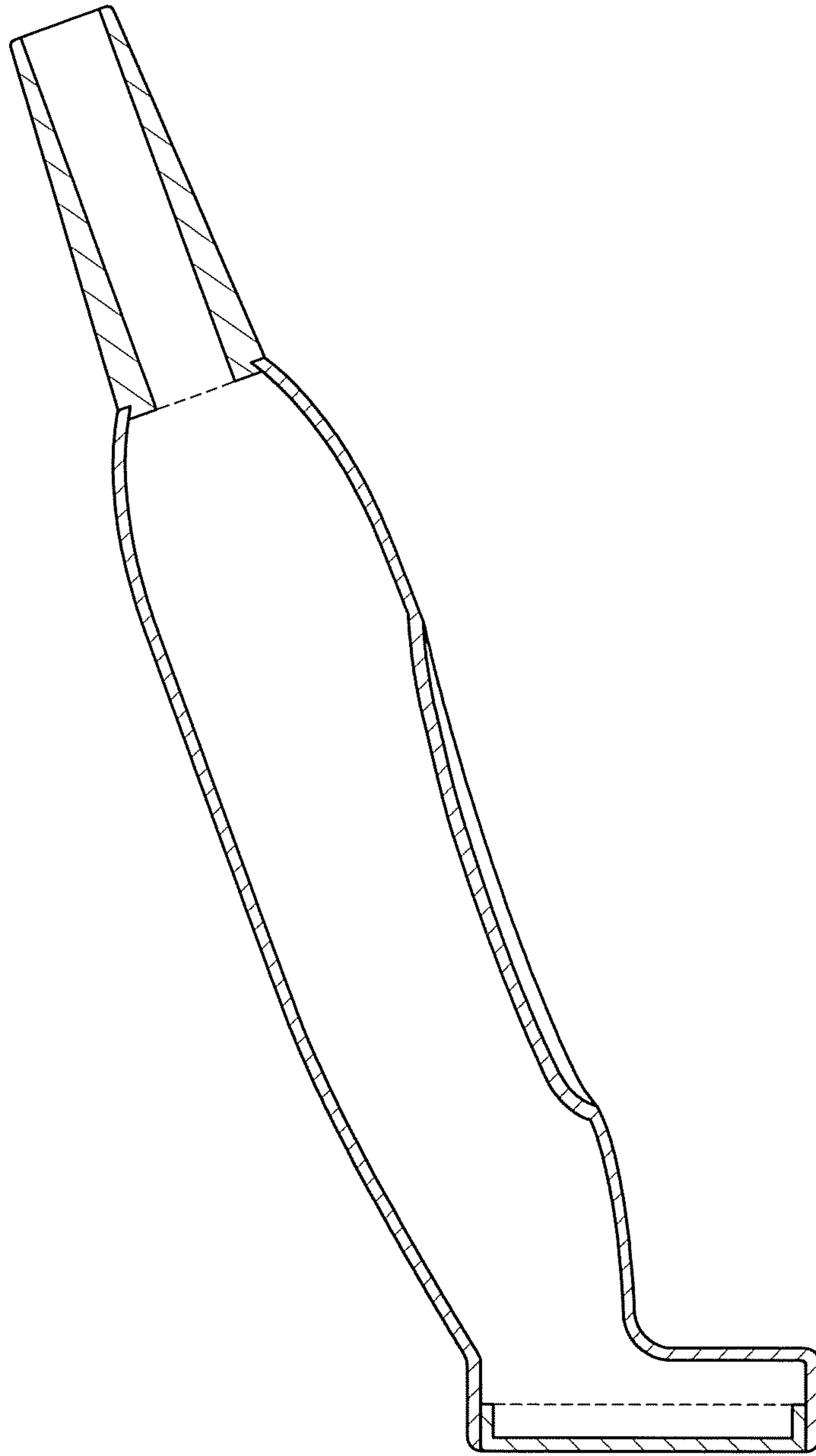


FIG. 8



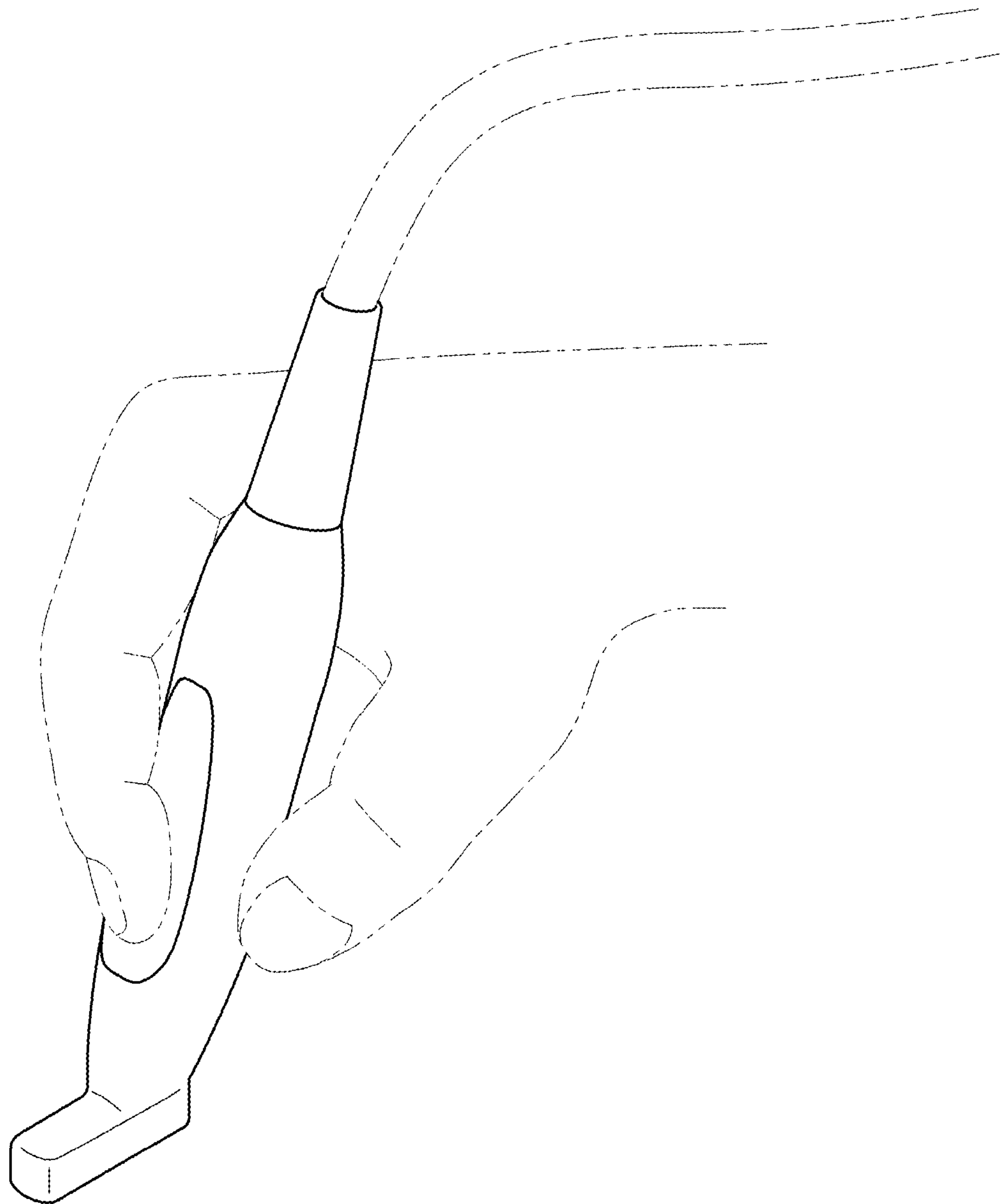


FIG. 9