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

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(45) **Date of Patent:** **** Feb. 14, 2017**

(54) **PROTECTOR TUBE FOR THERMOCOUPLE**

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

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(30) **Foreign Application Priority Data**

Feb. 25, 2015 (JP) 2015-003916

(51) **LOC (10) Cl.** **10-04**

(52) **U.S. Cl.**
USPC **D10/60**

(58) **Field of Classification Search**
USPC D10/49, 50, 51, 52, 53, 54, 55, 56, 60
CPC G01K 7/02; G01K 7/021; G01K 7/023;
G01K 7/025; G01K 7/026; G01K 7/028;
G01K 7/04; G01K 7/06; G01K
7/08; G01K 7/10; G01K 7/12; G01K 7/13;
G01K 7/14; G01K 1/12; G01K
1/08; G01K 1/125; G01K 1/10; G01K
1/105

See application file for complete search history.

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(57) **CLAIM**

We claim the ornamental design for a protector tube for thermocouple, as shown (and described).

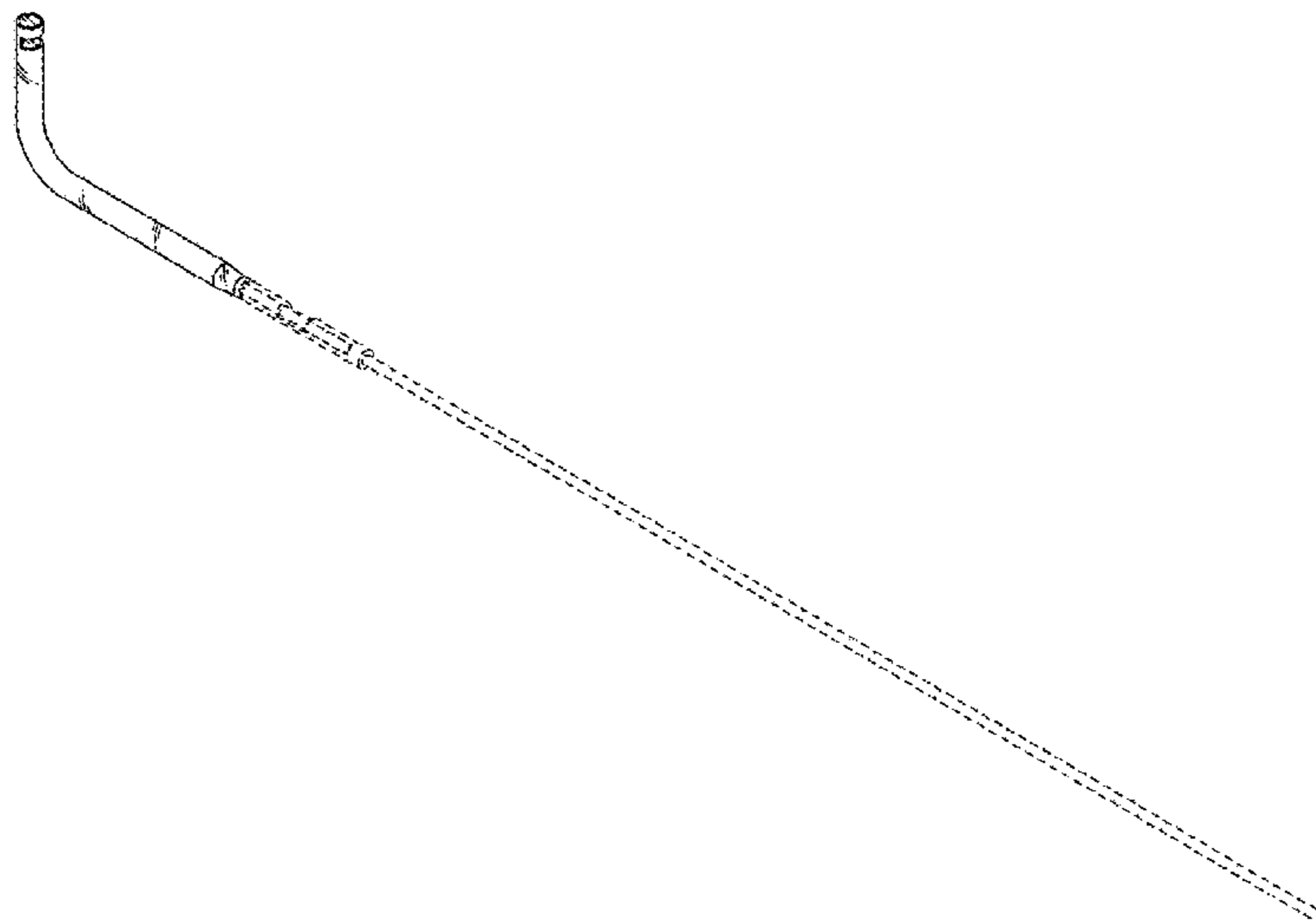
DESCRIPTION

FIG. 1 is a perspective view of a protector tube for thermocouple showing my new design;
FIG. 2 is a front elevational view thereof;
FIG. 3 is a rear elevational view thereof;
FIG. 4 is a left side elevational view thereof;
FIG. 5 is a right side elevational view thereof;
FIG. 6 is a top plan view thereof; and
FIG. 7 is a bottom plan view thereof.
FIG. 8 is a cross-sectional view taken along line 8-8 in FIG. 6 thereof;
FIG. 9 is an enlarged cross-sectional view taken along line 9-9 in FIG. 2 thereof; and,
FIG. 10 is an enlarged cross-sectional view taken along line 10-10 in FIG. 8 thereof.

The dashed-dot-dashed lines represent the boundary lines of the claimed design.

The broken lines shown in the drawings represent portions of the protector tube for thermocouple that form no part of the claimed design.

1 Claim, 6 Drawing Sheets



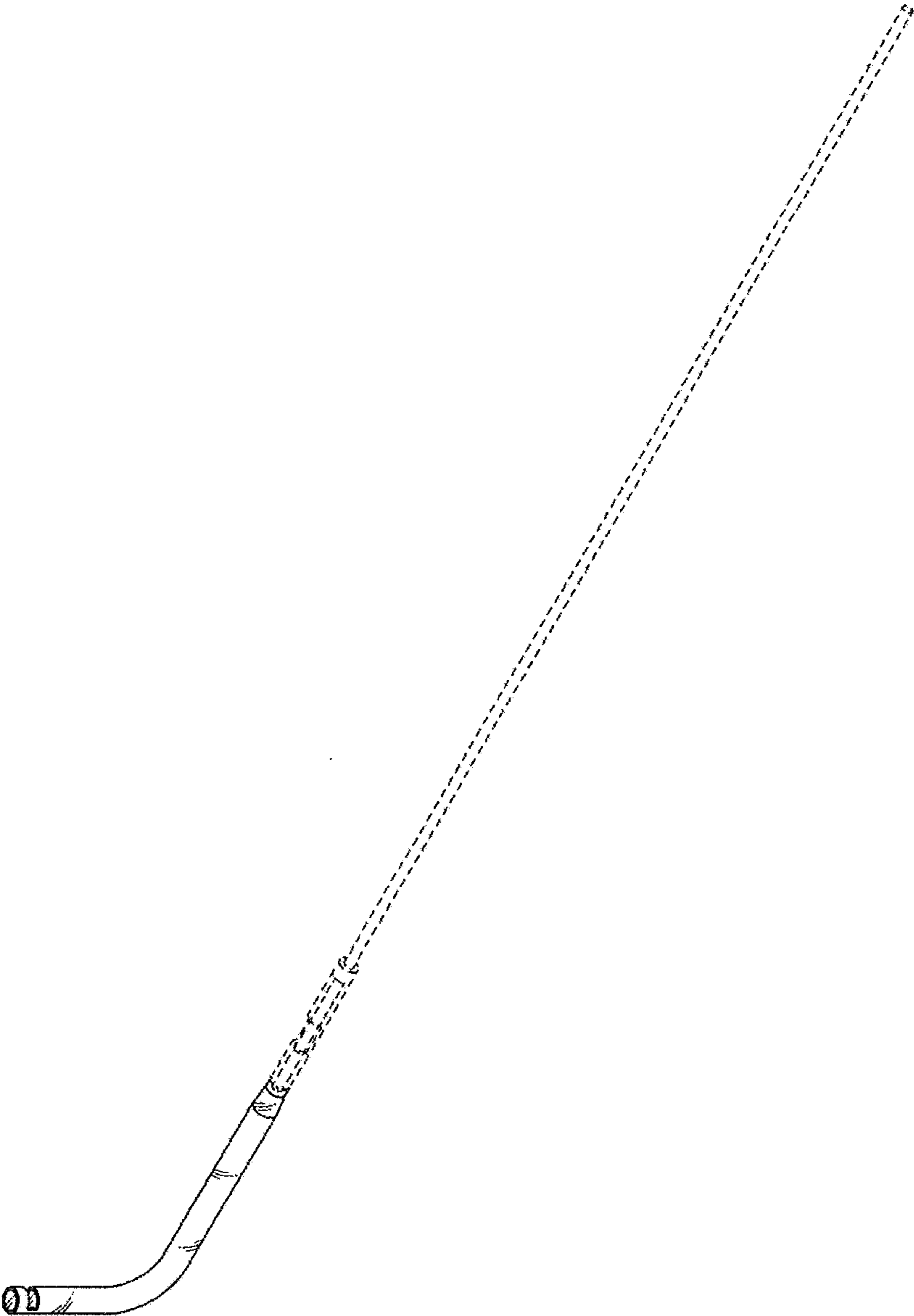


FIG. 1

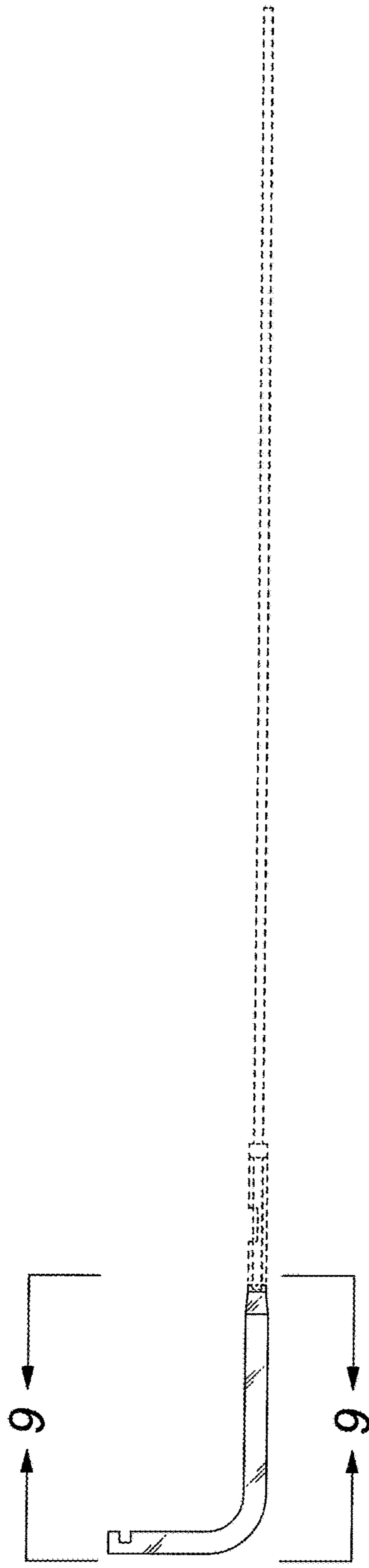


FIG. 2

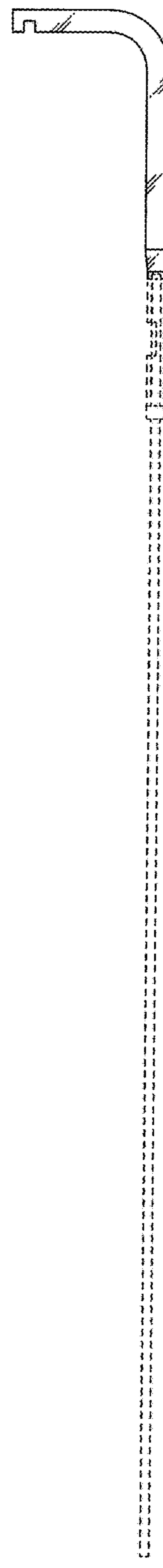


FIG. 3

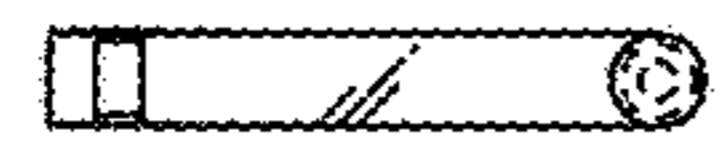


FIG. 4

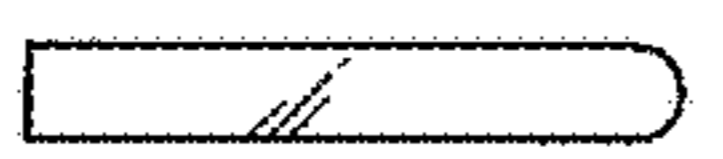


FIG. 5

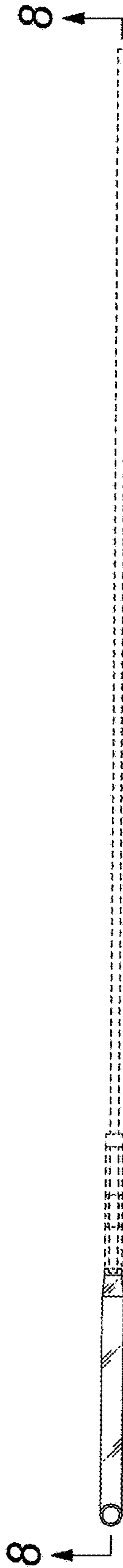


FIG. 6



FIG. 7

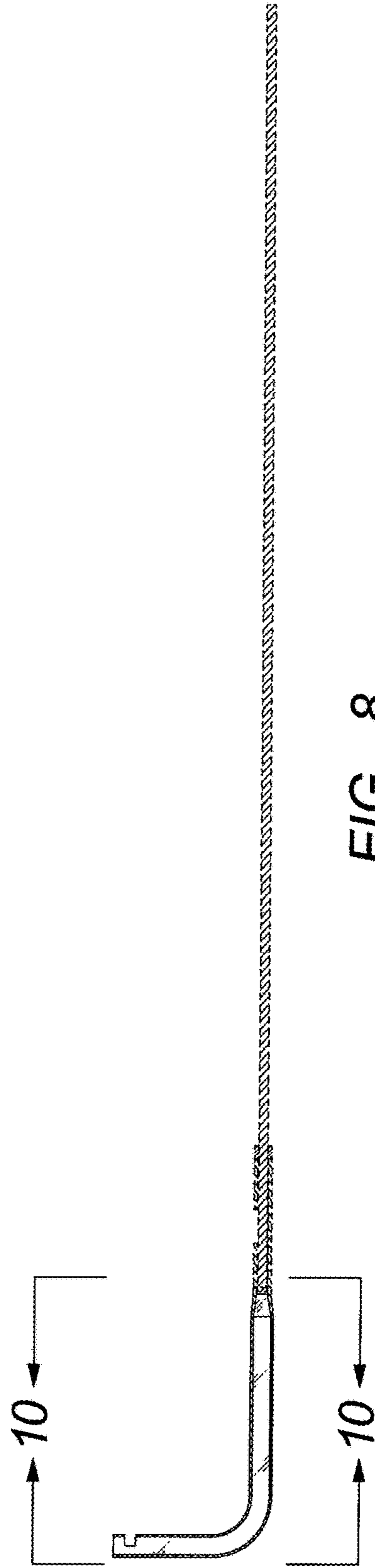


FIG. 8

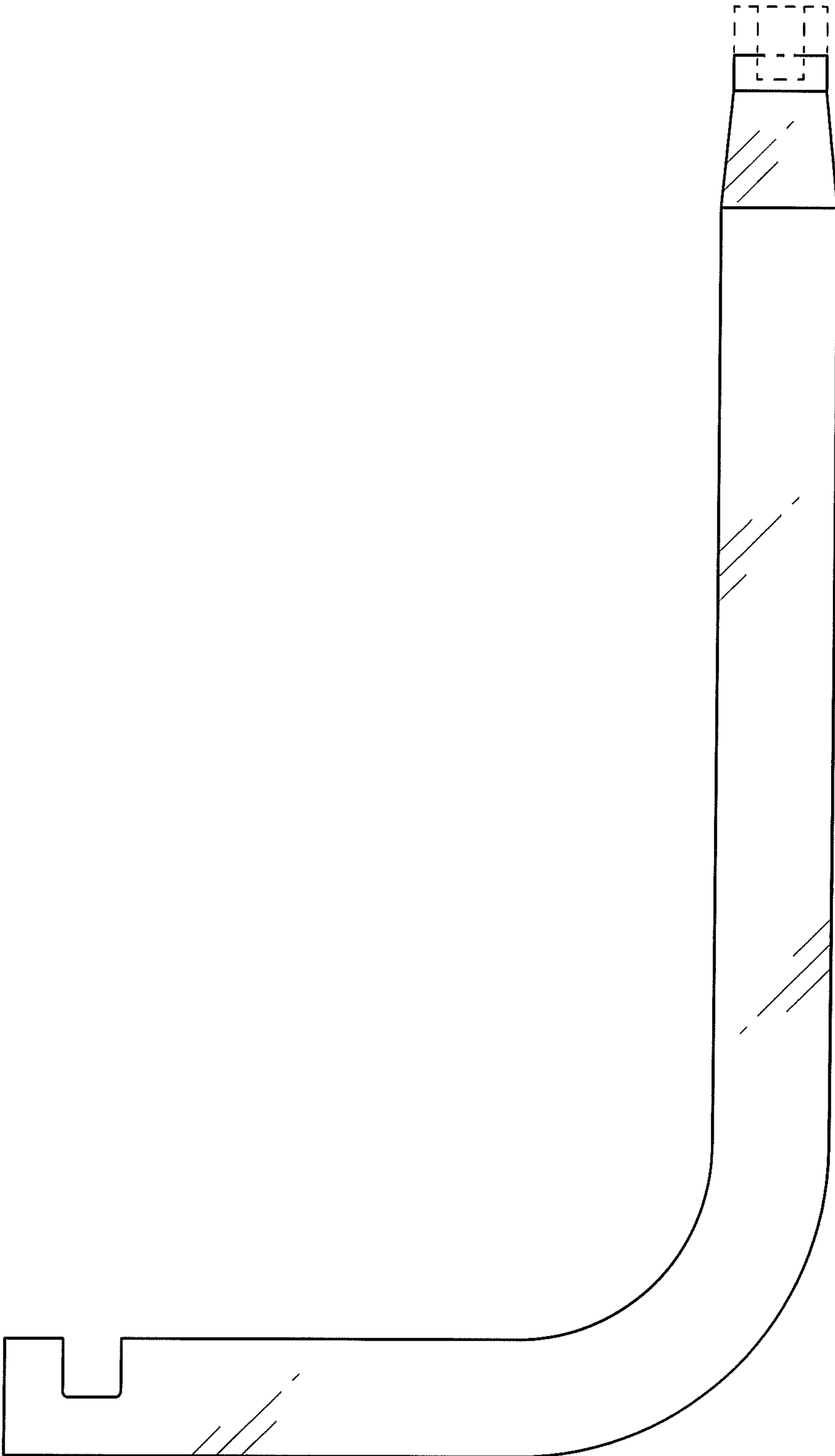


FIG. 9

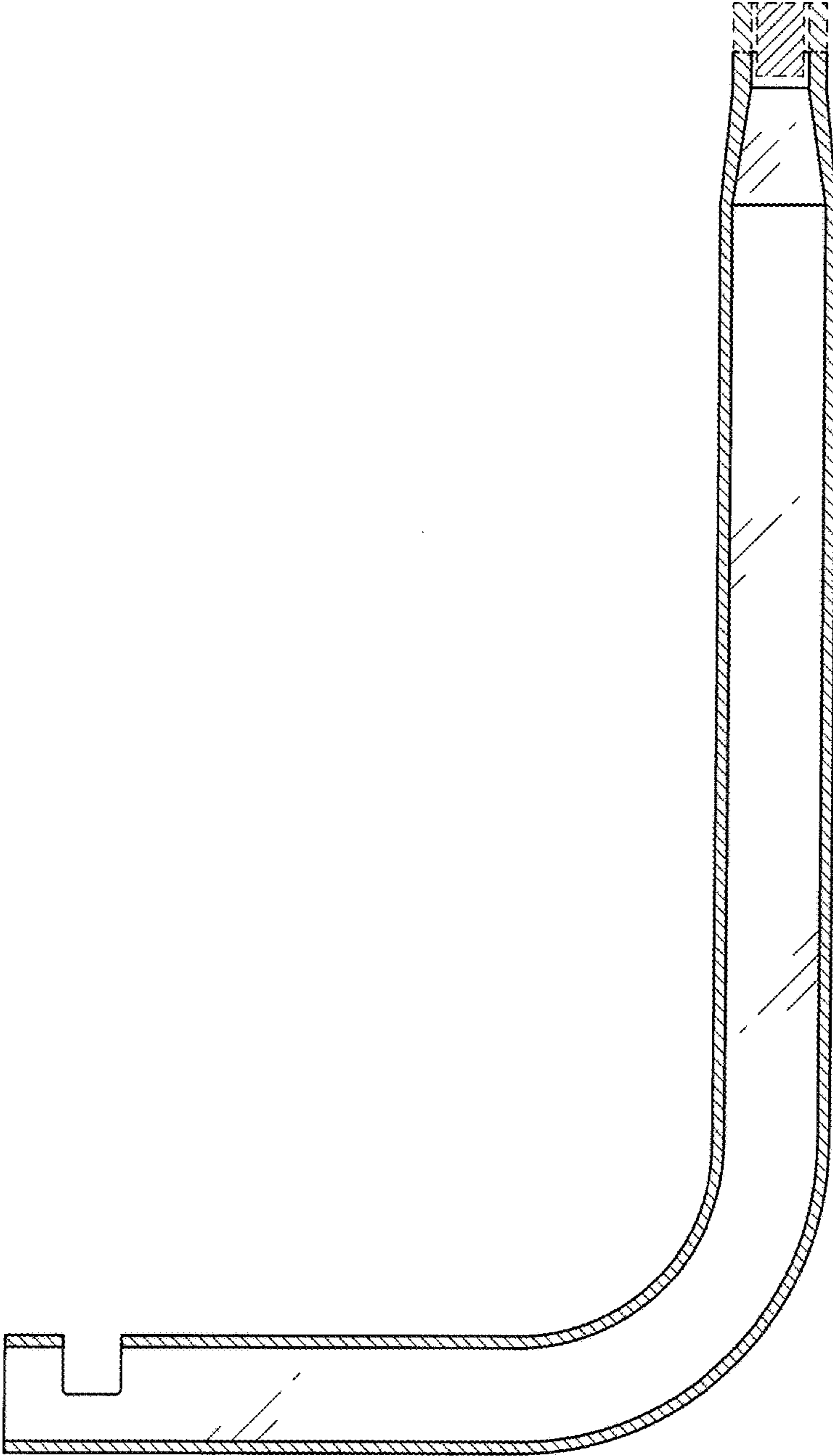


FIG. 10