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

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(54) **TOOL FOR FIXING A TENSION MEMBER OF COMPOSITE STRAND FOR PRESTRESSED CONCRETE REINFORCEMENT AND POST TENSIONING CONCRETE STRUCTURE**

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

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Dec. 21, 2015 (JP) 2015-028359

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(51) **LOC (11) Cl.** **08-08**

(52) **U.S. Cl.**
USPC **D8/383; D8/382**

(58) **Field of Classification Search**
USPC D8/383, 382, 385, 393, 394, 396, 499,
D8/354, 355, 14, 44, 47, 71, 72

(Continued)

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(74) *Attorney, Agent, or Firm* — Holtz, Holtz & Volek PC

(57) **CLAIM**

The ornamental design for a tool for fixing a tension member of composite strand for prestressed concrete reinforcement and post tensioning concrete structure, as shown and described.

DESCRIPTION

FIG. 1 is a front, bottom and left side perspective view of a tool for fixing a tension member of composite strand for prestressed concrete reinforcement and post tensioning concrete structure, showing our new design;

FIG. 2 is a front view thereof;

FIG. 3 is a rear view thereof;

FIG. 4 is a top view thereof;

FIG. 5 is a bottom view thereof;

FIG. 6 is a left side view thereof;

FIG. 7 is a right side view thereof;

FIG. 8 is an enlarged cross sectional view thereof, taken along line 8-8 in FIG. 2;

FIG. 9 is an enlarged cross sectional view thereof, taken along line 9-9 in FIG. 2;

FIG. 10 is a perspective view showing the state of use thereof;

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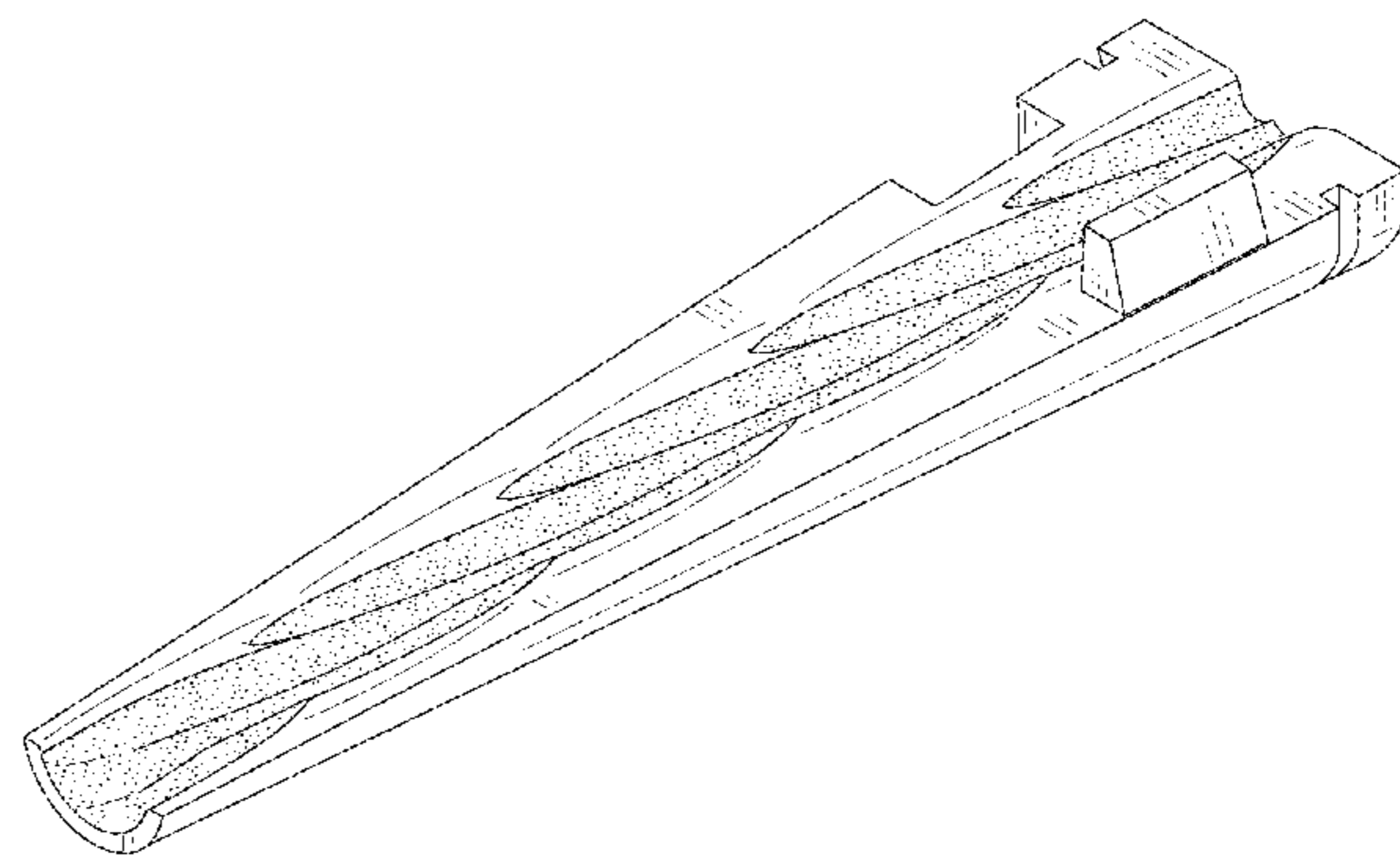
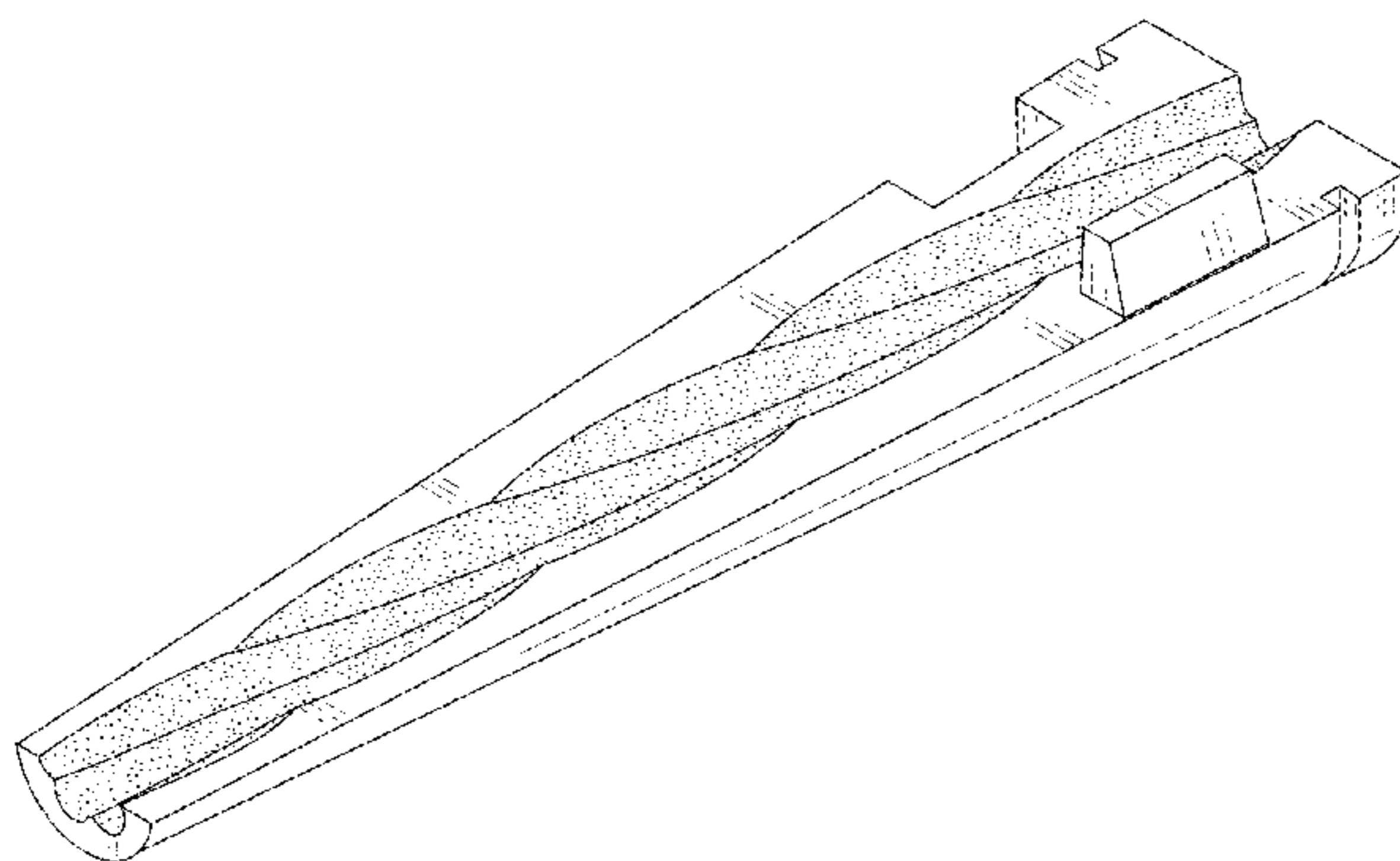


FIG. 11 is a front, bottom and left side perspective view of a second embodiment of a tool for fixing a tension member of composite strand for prestressed concrete reinforcement and post tensioning concrete structure, showing our new design;

FIG. 12 is a front view thereof;

FIG. 13 is a rear view thereof;

FIG. 14 is a top view thereof;

FIG. 15 is a bottom view thereof;

FIG. 16 is a left side view thereof;

FIG. 17 is a right side view thereof;

FIG. 18 is an enlarged cross sectional view thereof, taken along line 18-18 in FIG. 12;

FIG. 19 is an enlarged cross sectional view thereof, taken along line 19-19 in FIG. 12; and,

FIG. 20 is a perspective view showing the state of use thereof.

The broken lines shown in the sectional views of FIGS. 8, 9, 18 and 19 illustrate portions of the tool for fixing a tension member of composite strand for prestressed concrete reinforcement and post tensioning concrete structure and form no part of the claimed design. The broken lines shown in FIGS. 10 and 20 illustrates the environment of the claimed design and forms no part thereof.

1 Claim, 12 Drawing Sheets

(30) **Foreign Application Priority Data**

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 Dec. 21, 2015 (JP) 2015-028361

(58) **Field of Classification Search**

CPC . D07B 1/18; D07B 1/005; D07B 9/00; D07B 2201/20; D07B 2201/2083; D07B 2201/2084; D07B 2201/2085; D07B 2201/2089; F16G 11/00; F16G 11/03; F16G 11/04; F16G 11/048; F16G 11/08; F16G 11/10; F16G 11/105; F16G 11/108

See application file for complete search history.

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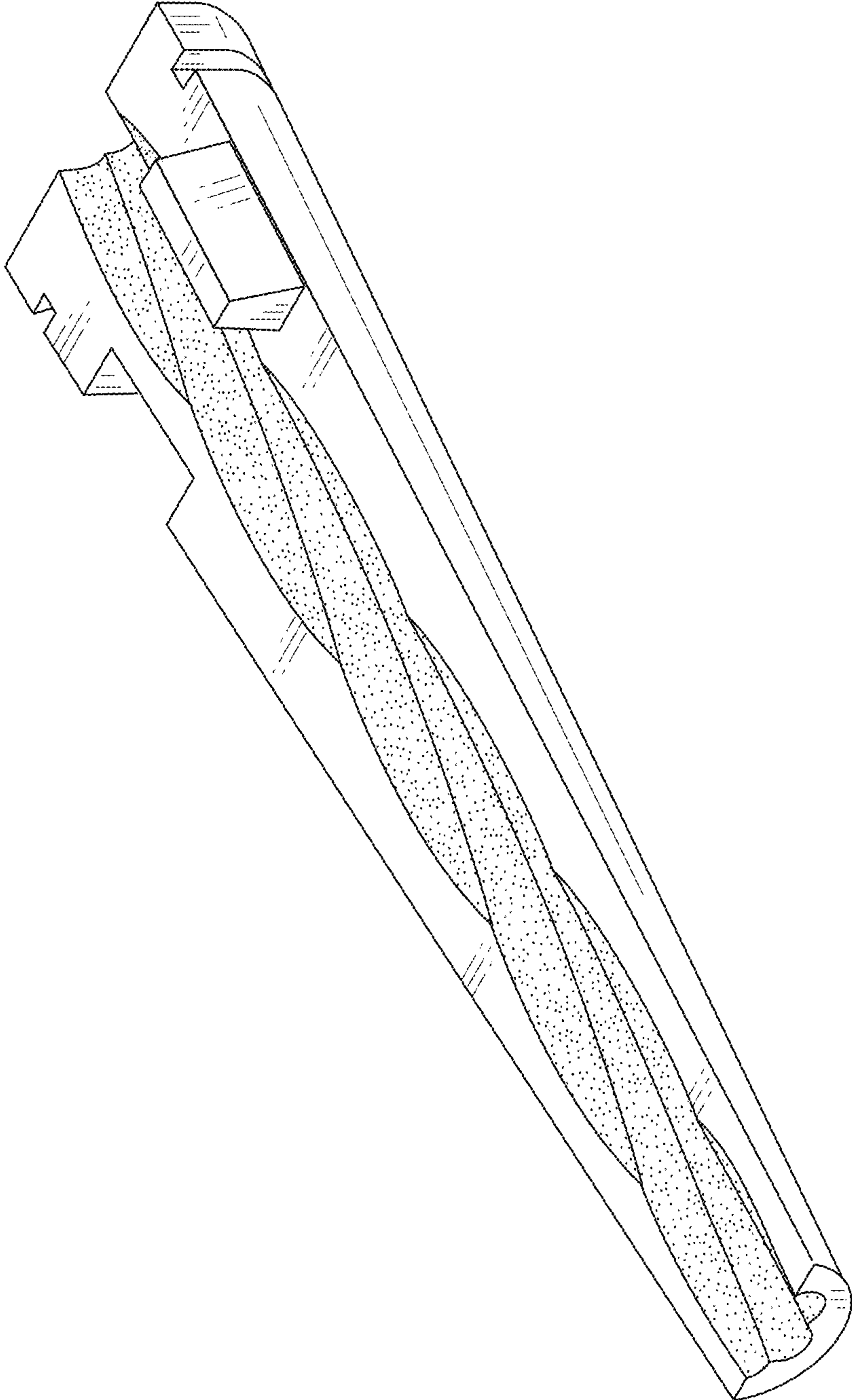


Fig. 1

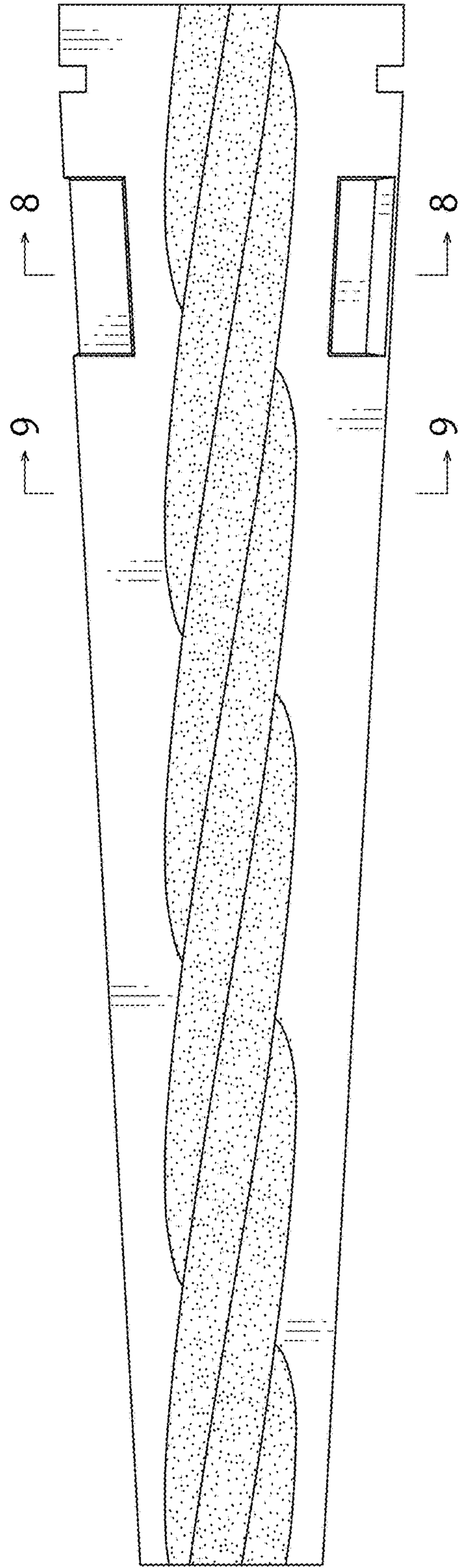


Fig. 2

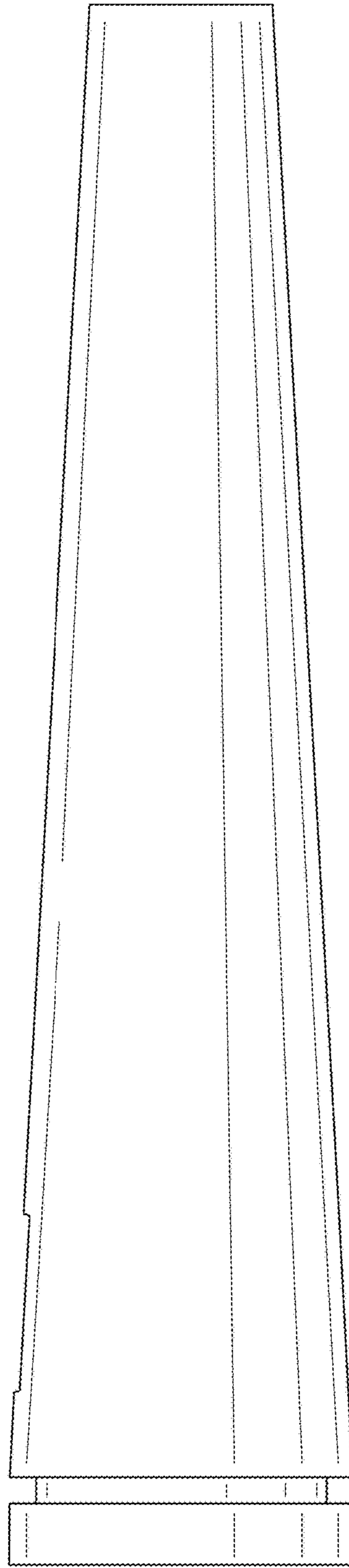


Fig. 3

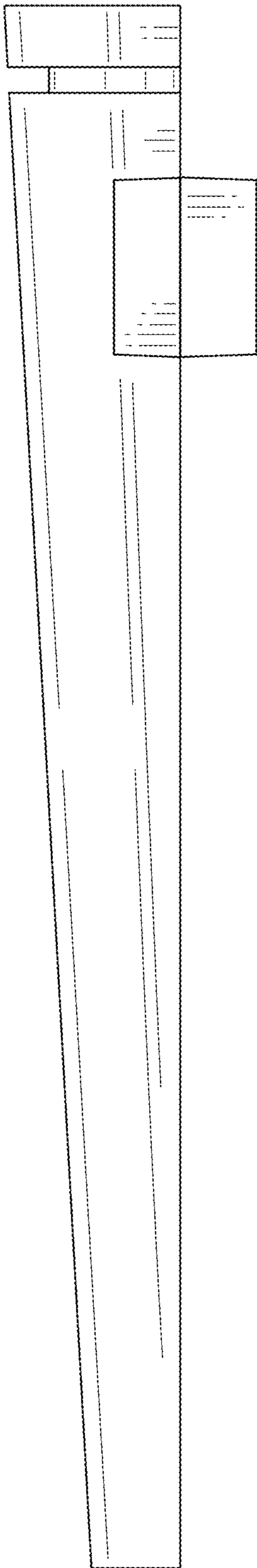


Fig. 4

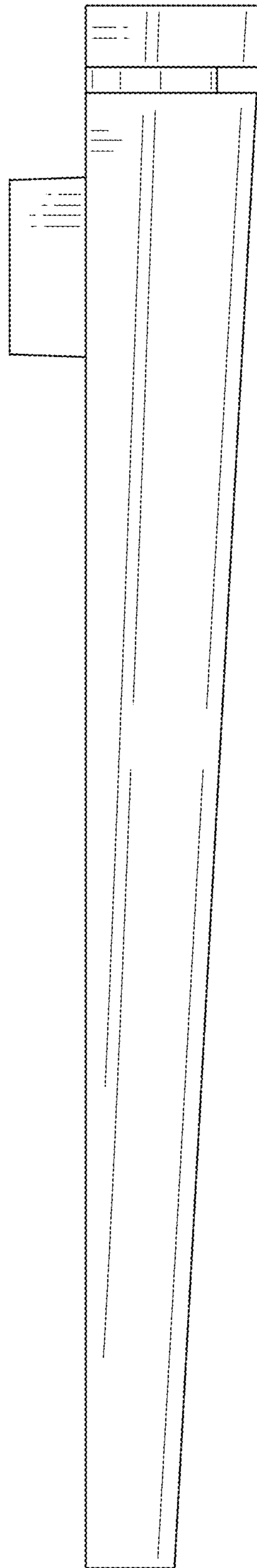


Fig. 5

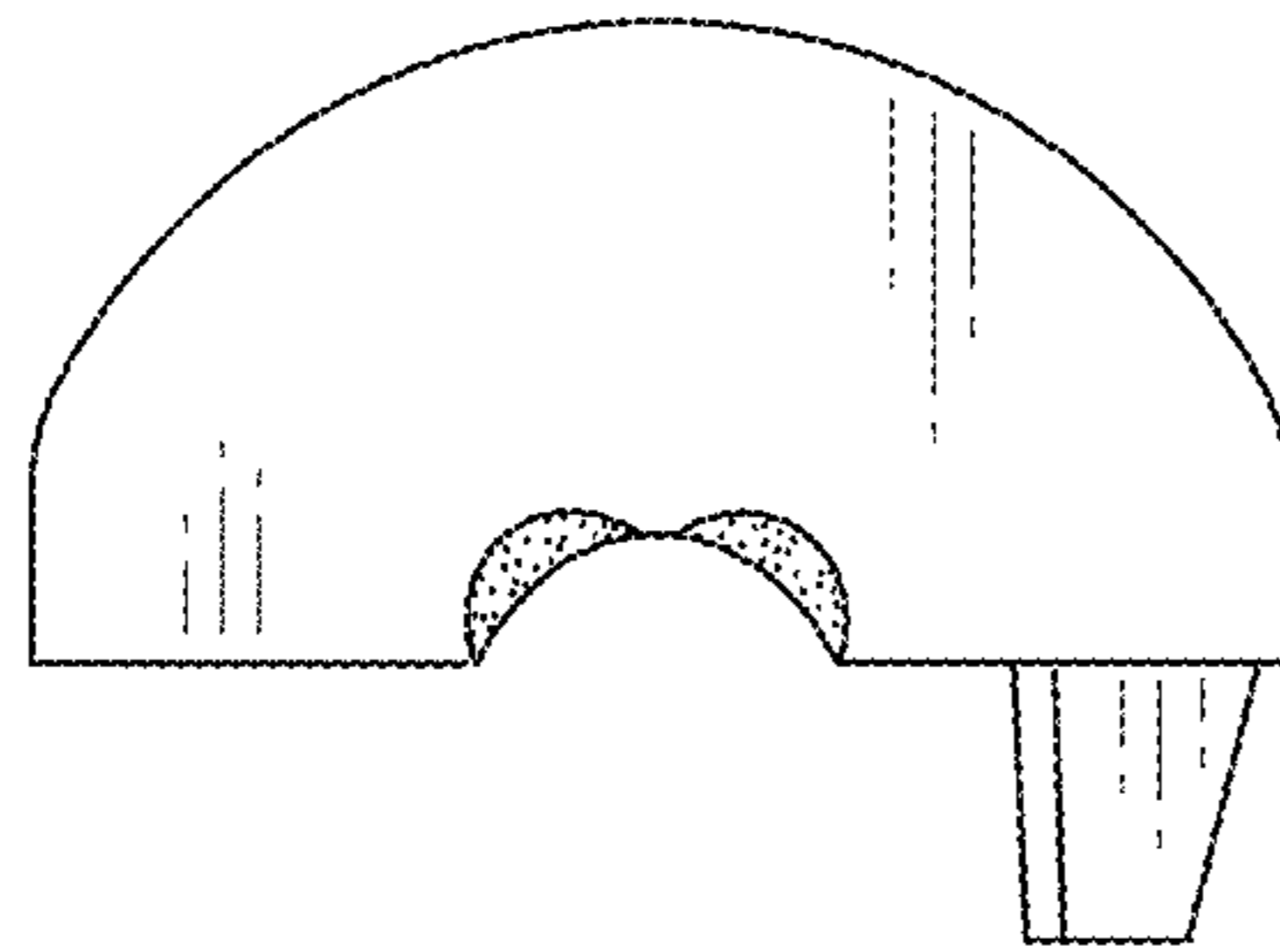


Fig. 7

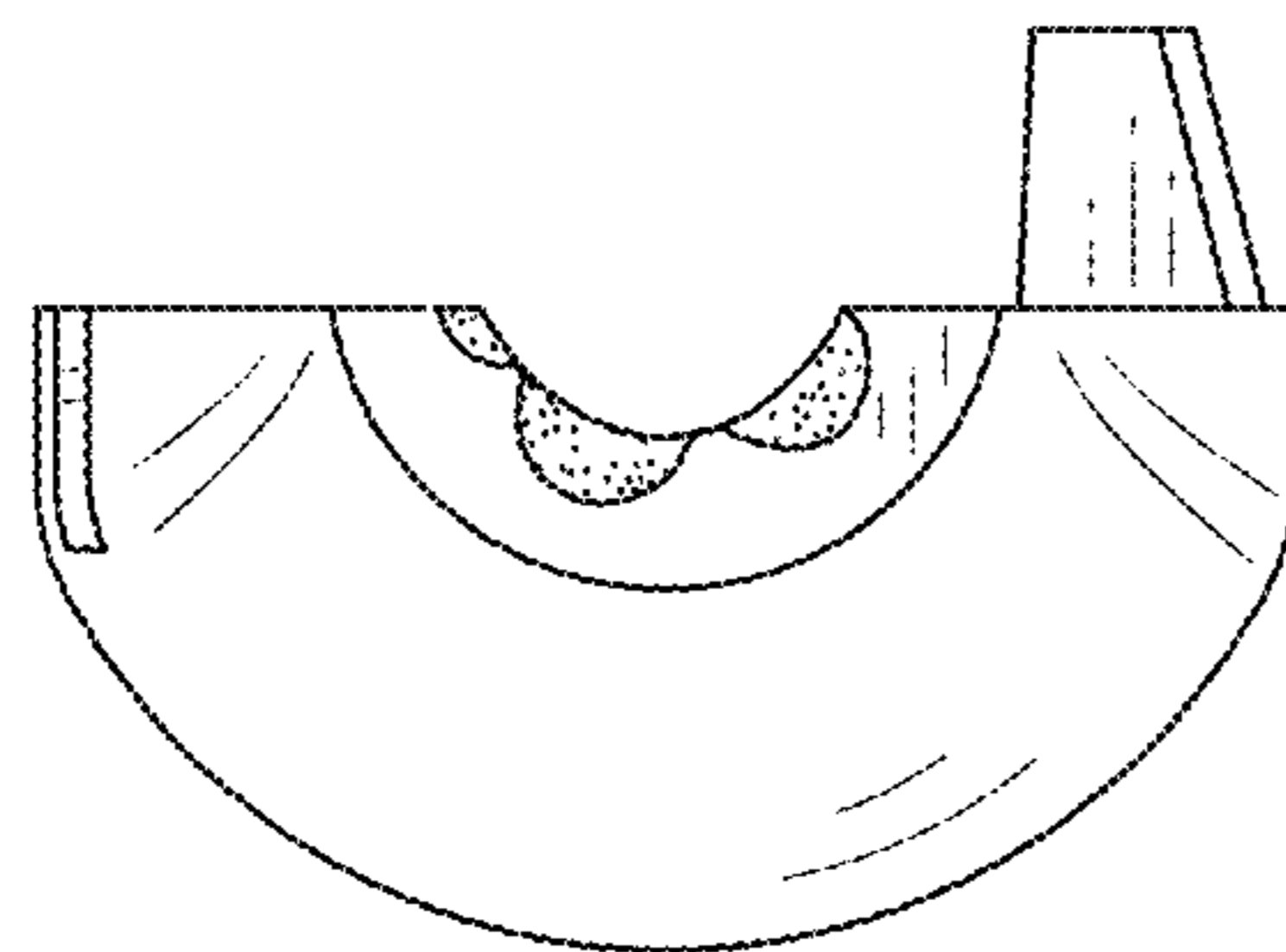


Fig. 6

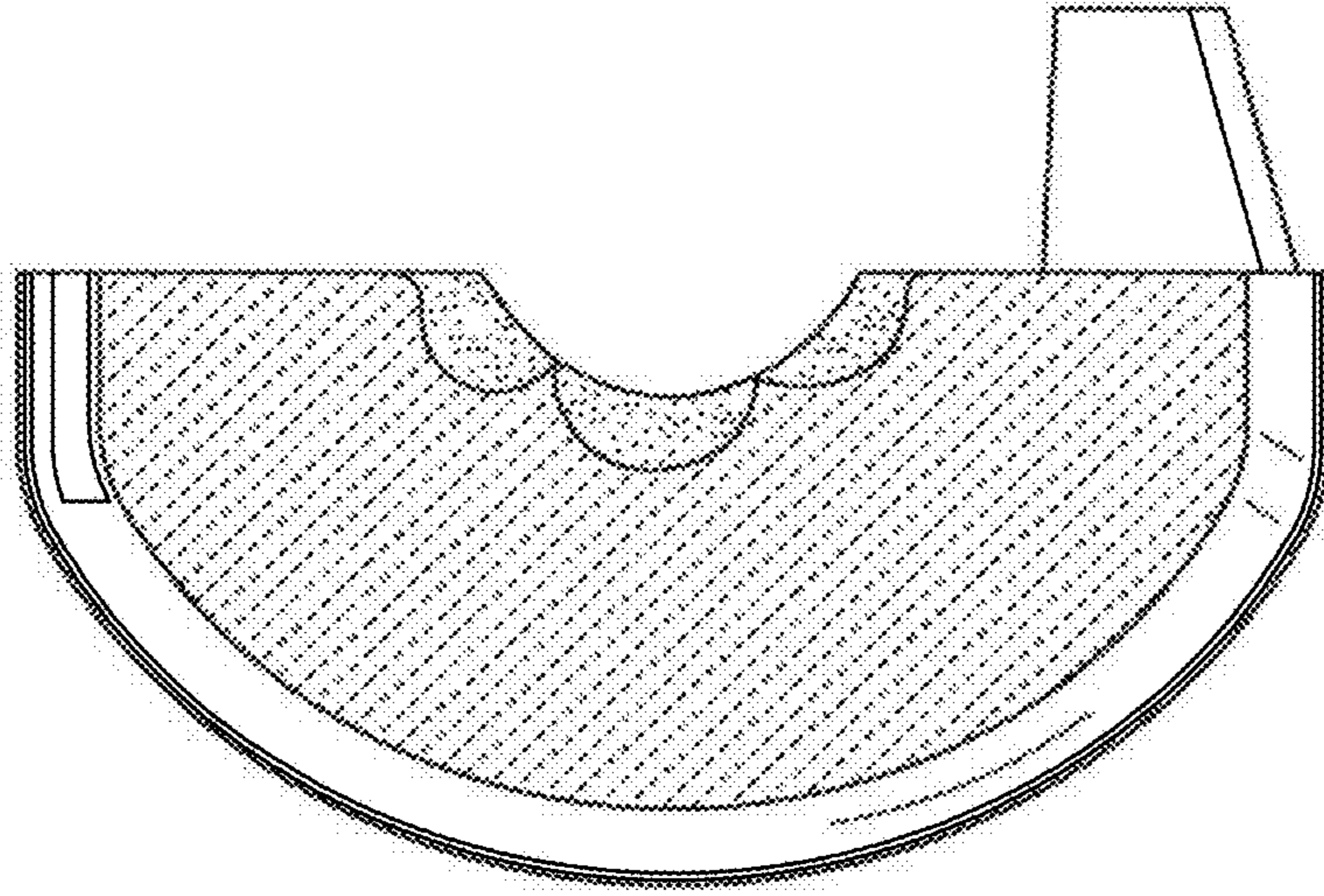


Fig. 9

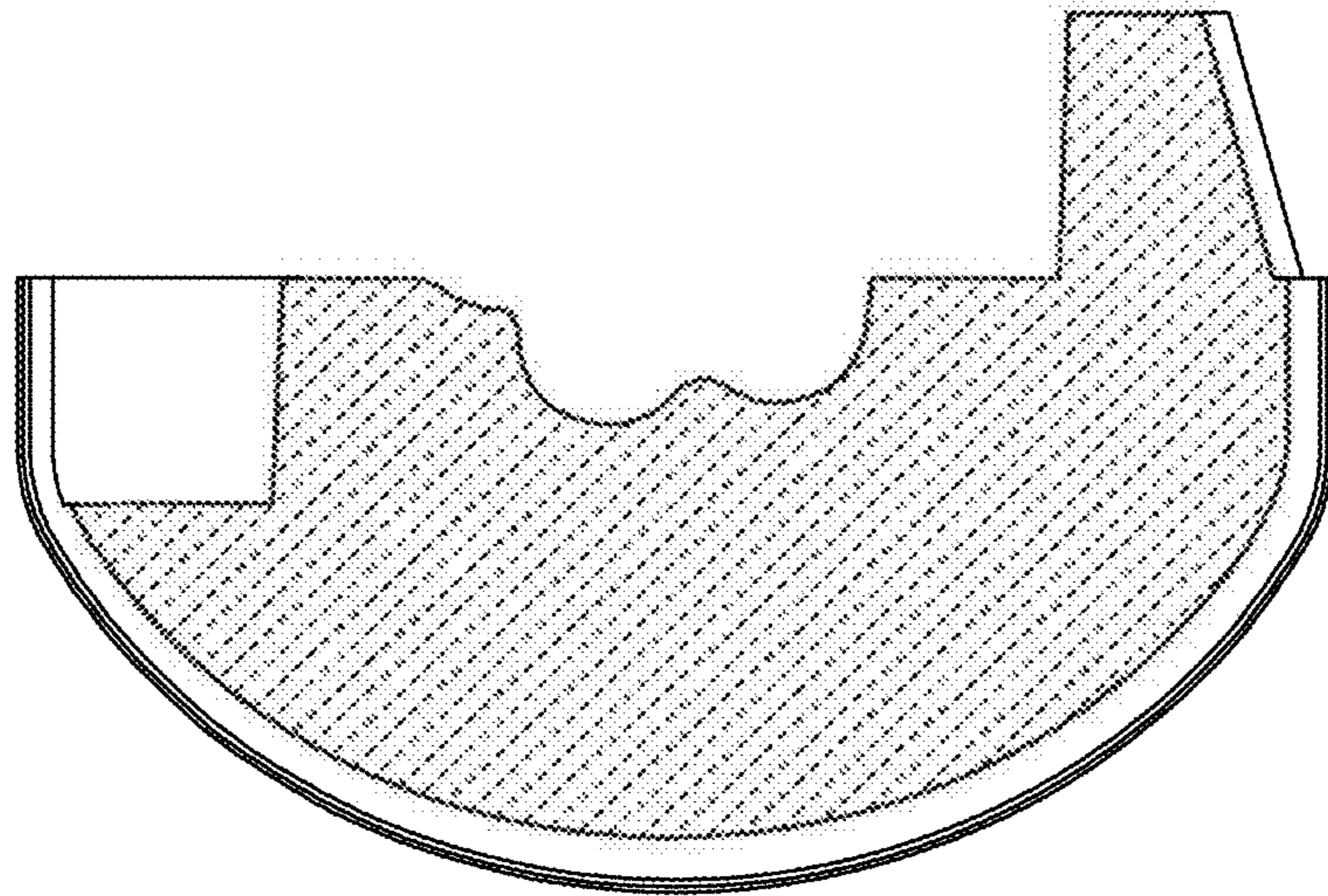


Fig. 8

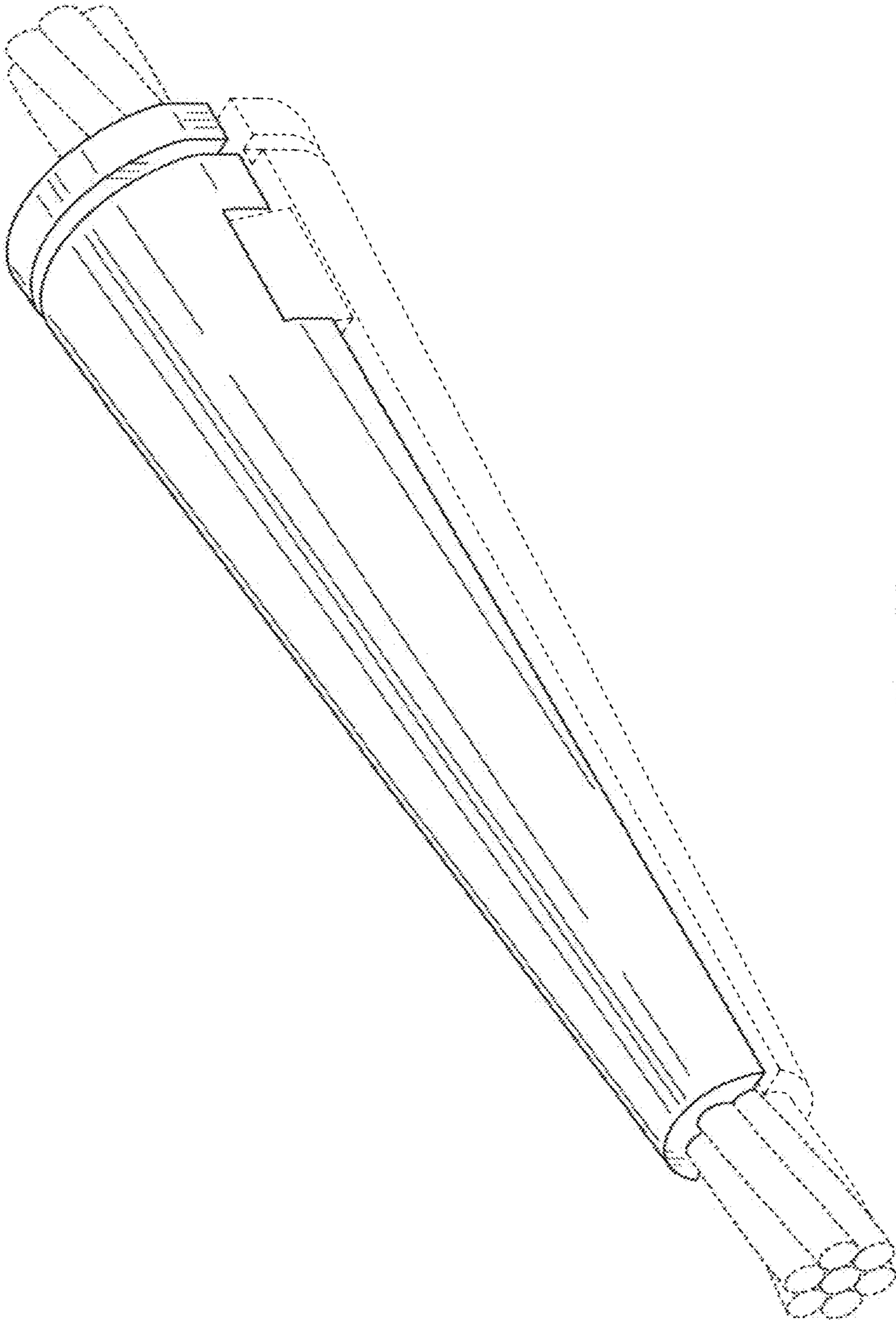


Fig. 10

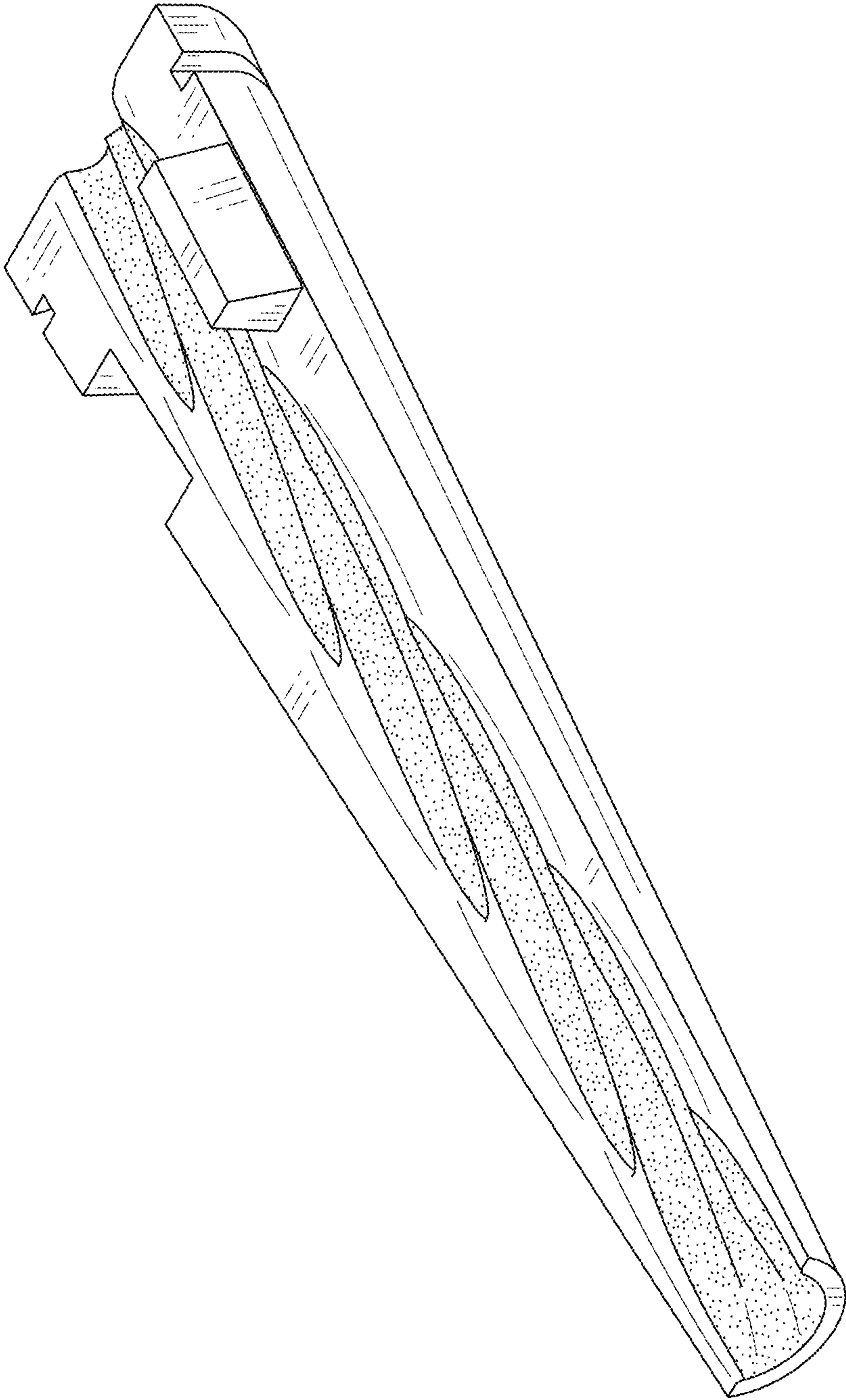


Fig. 11

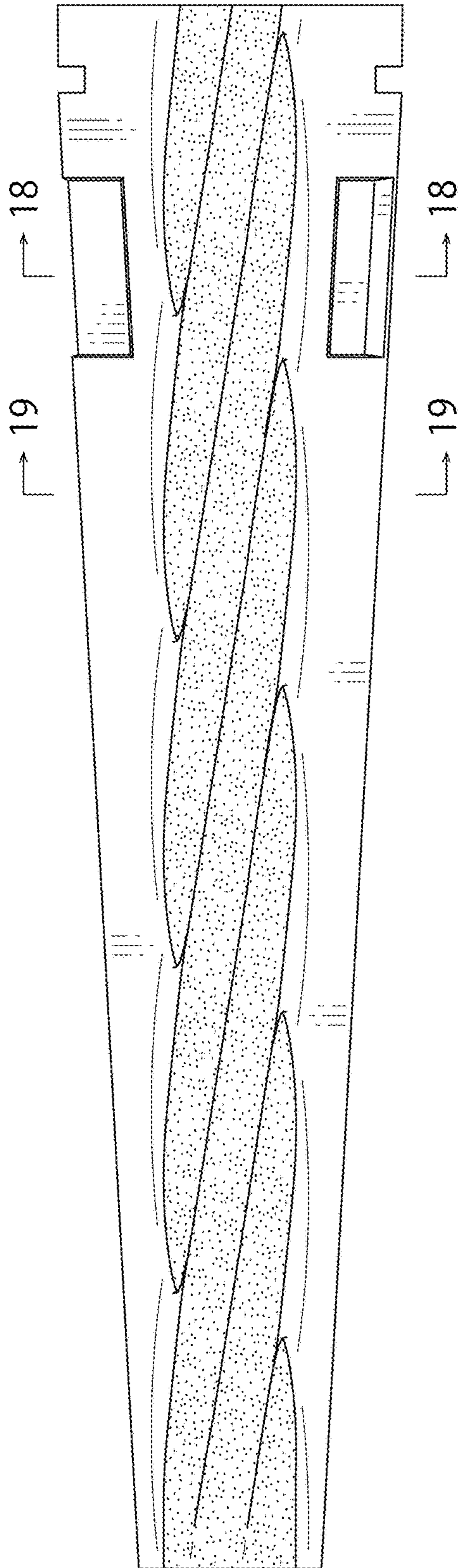


Fig. 12

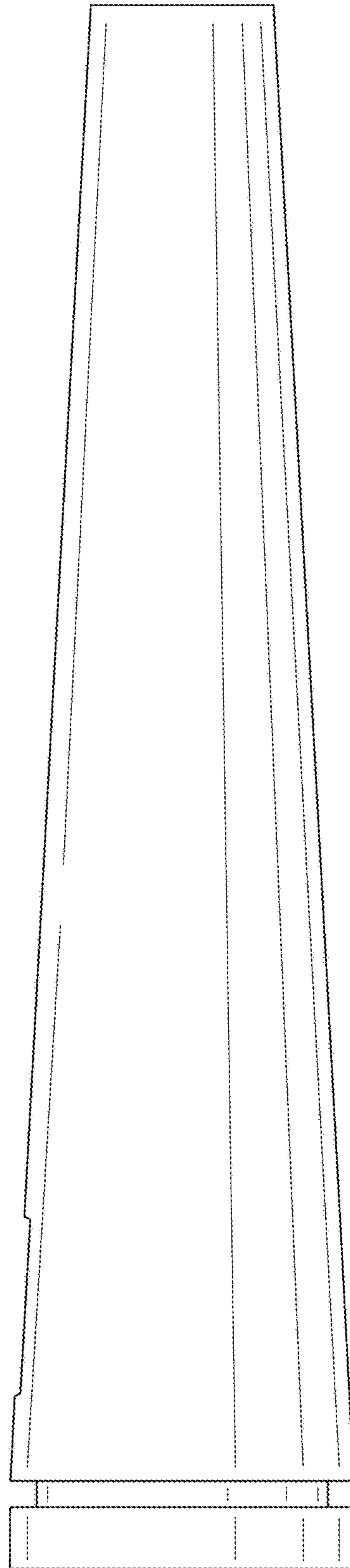


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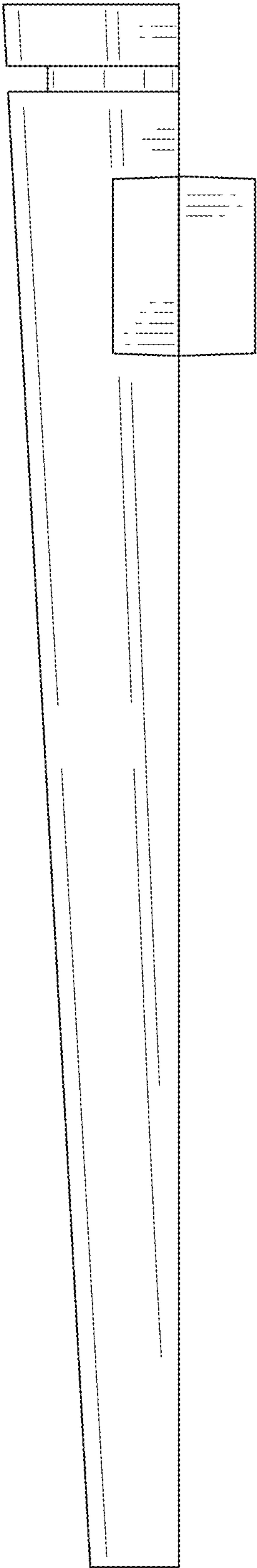


Fig. 14

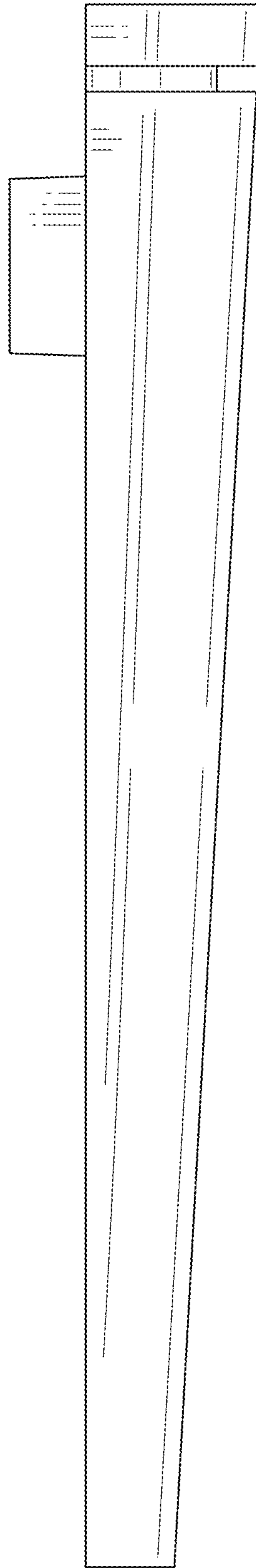


Fig. 15

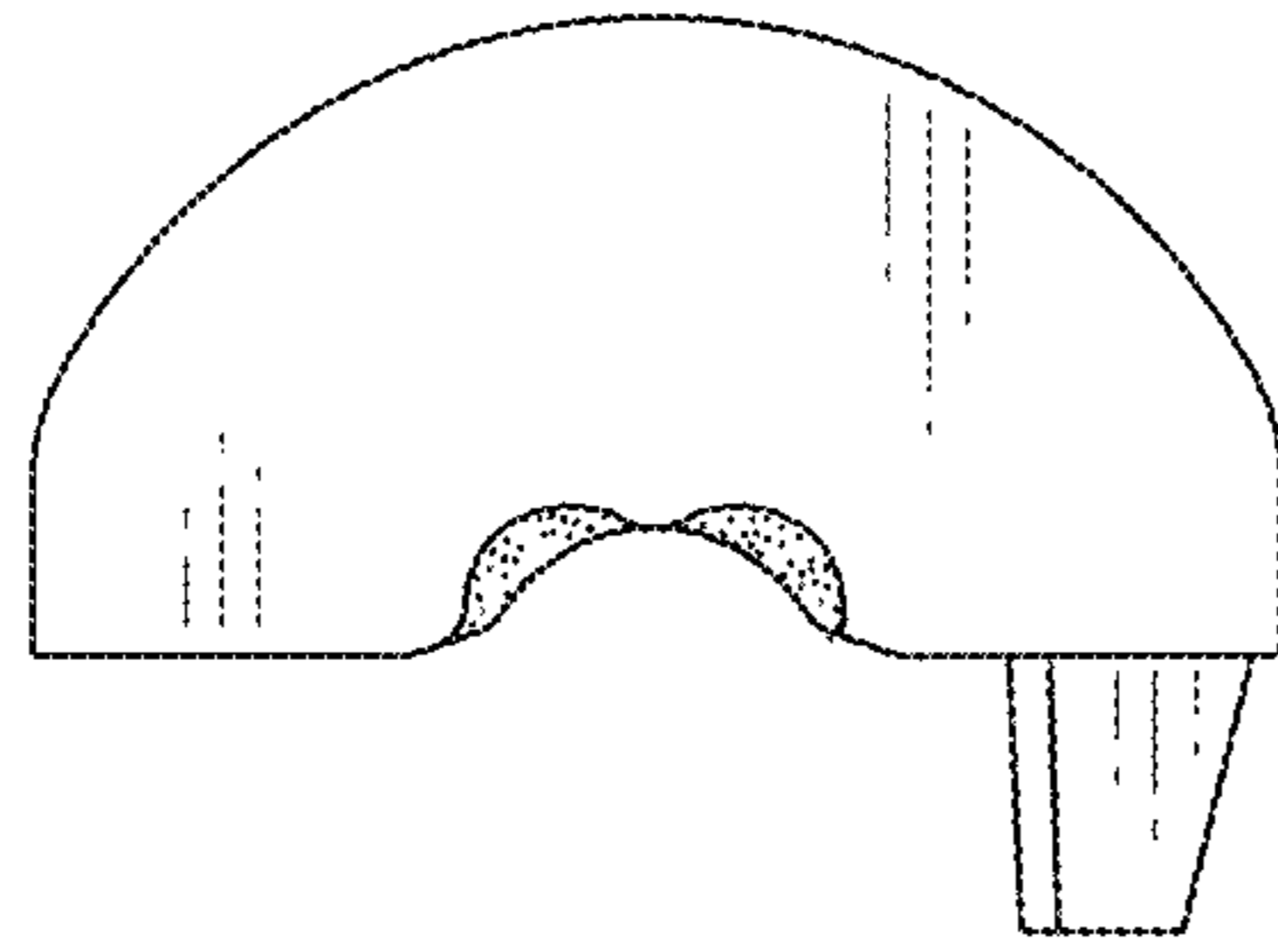


Fig. 17

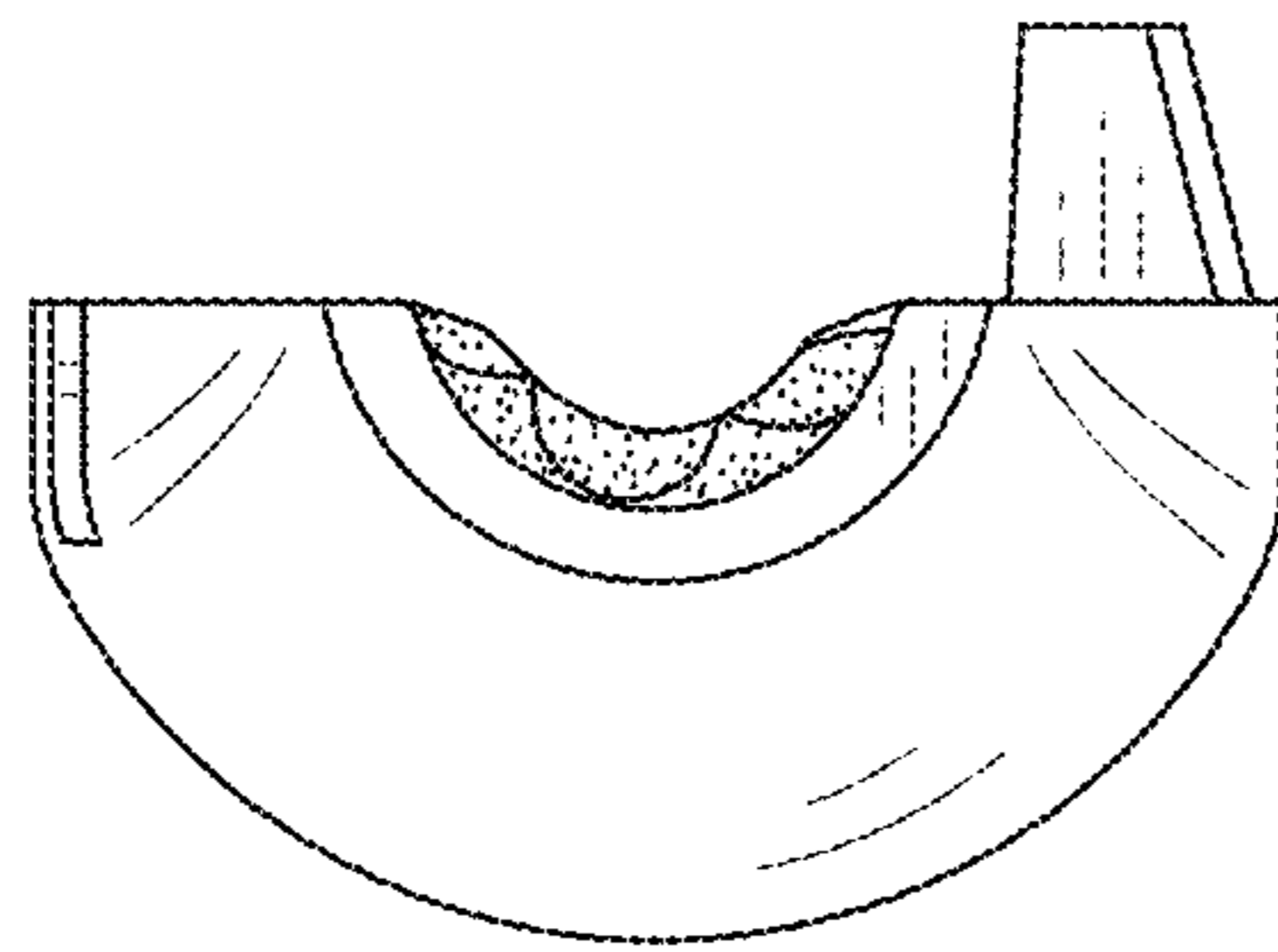


Fig. 16

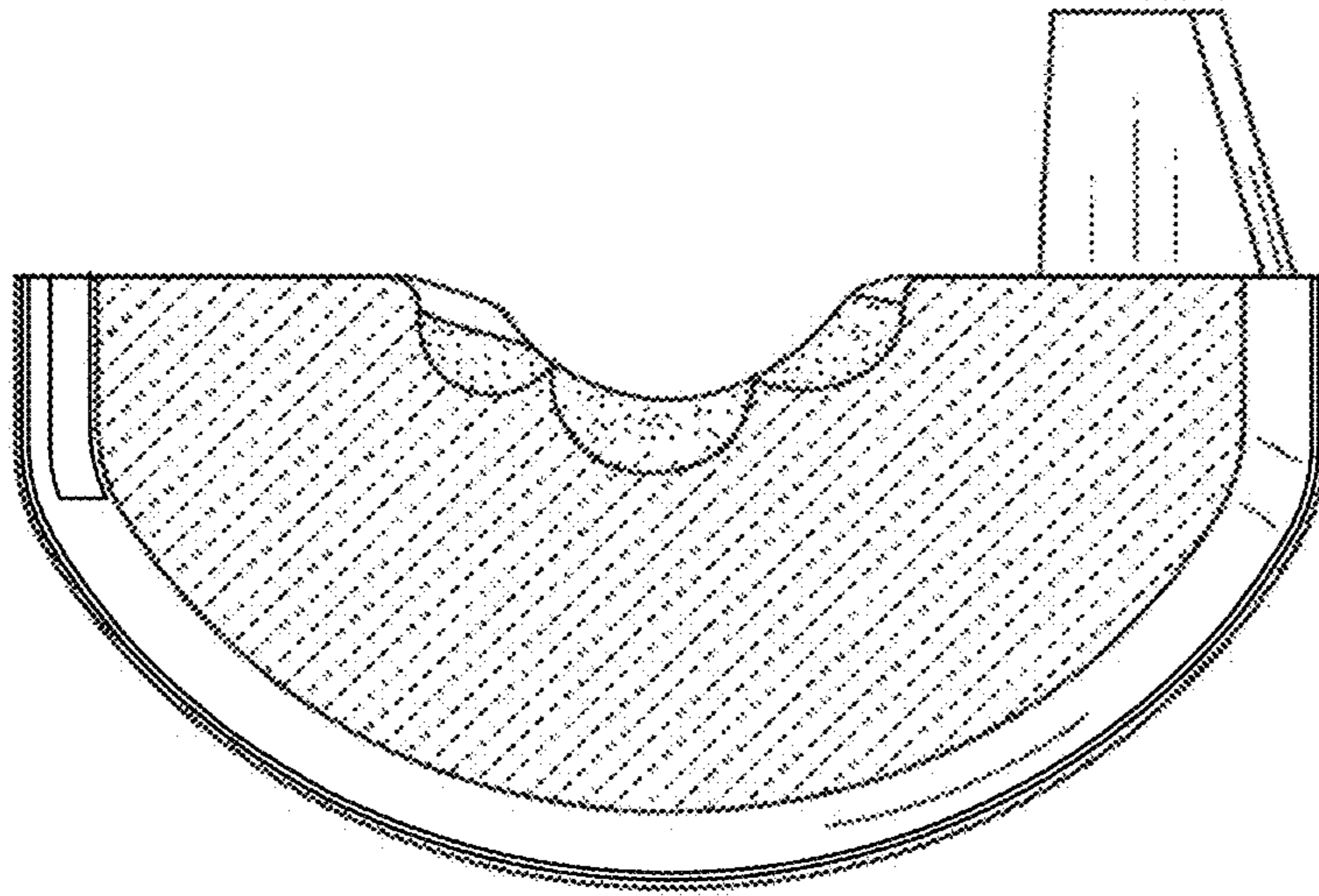


Fig. 19

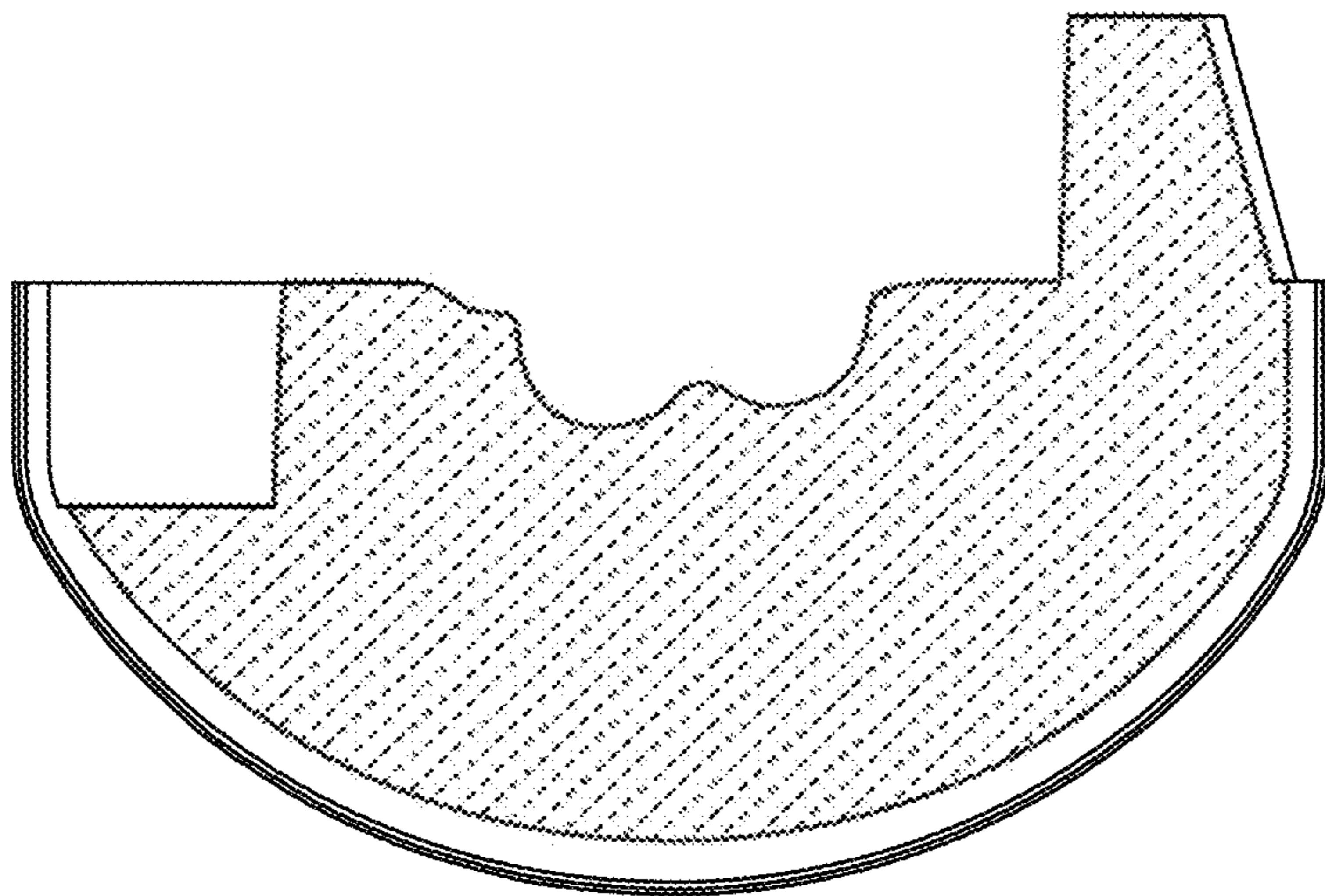


Fig. 18

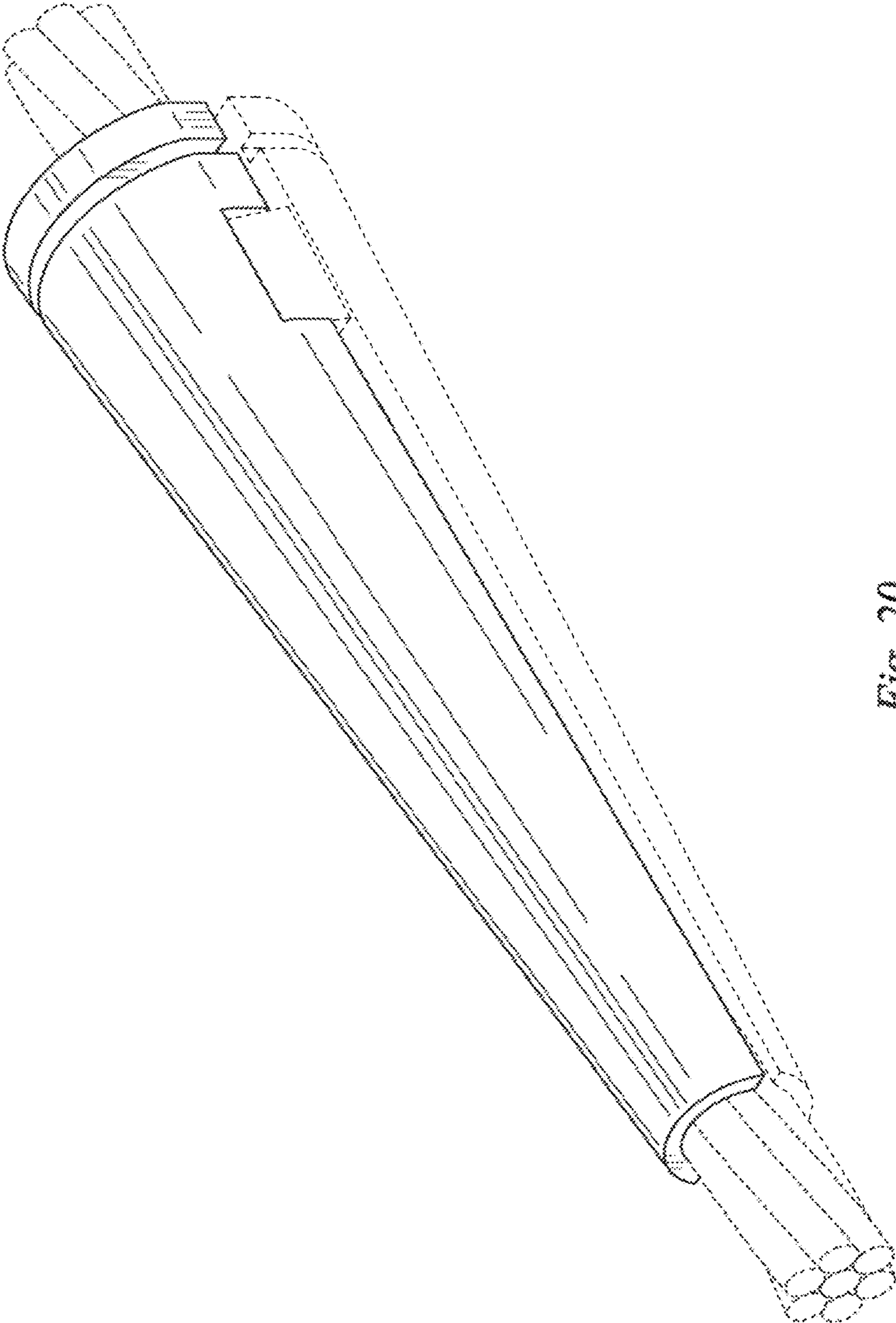


Fig. 20