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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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Related U.S. Application Data

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(30) **Foreign Application Priority Data**

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(Continued)

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

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

(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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Assistant Examiner — Ieisha N Price

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(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 first 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. 2 is a front side view thereof;

FIG. 3 is a rear side view thereof;

FIG. 4 is a top side view thereof;

FIG. 5 is a bottom side 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; and

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

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;

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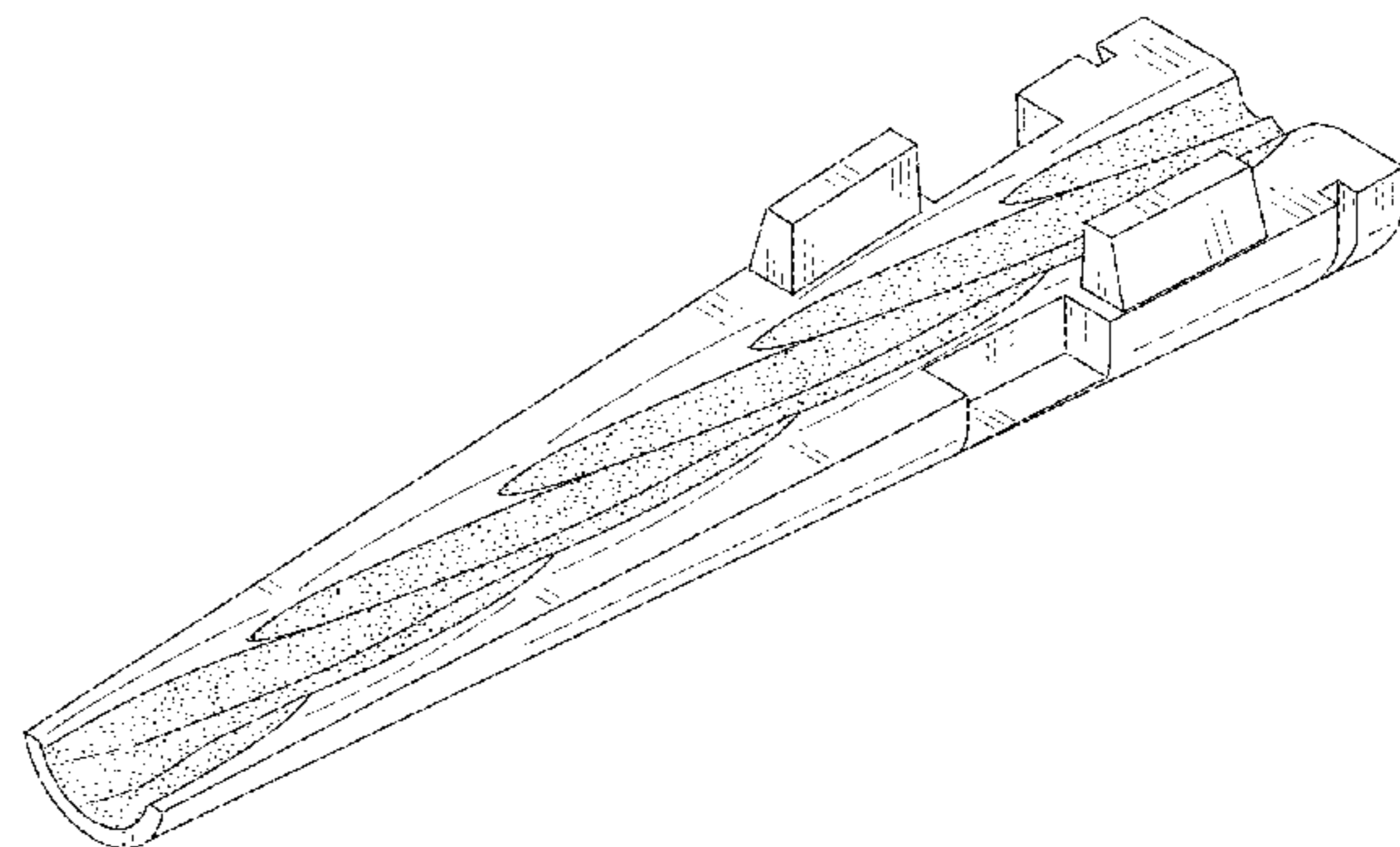
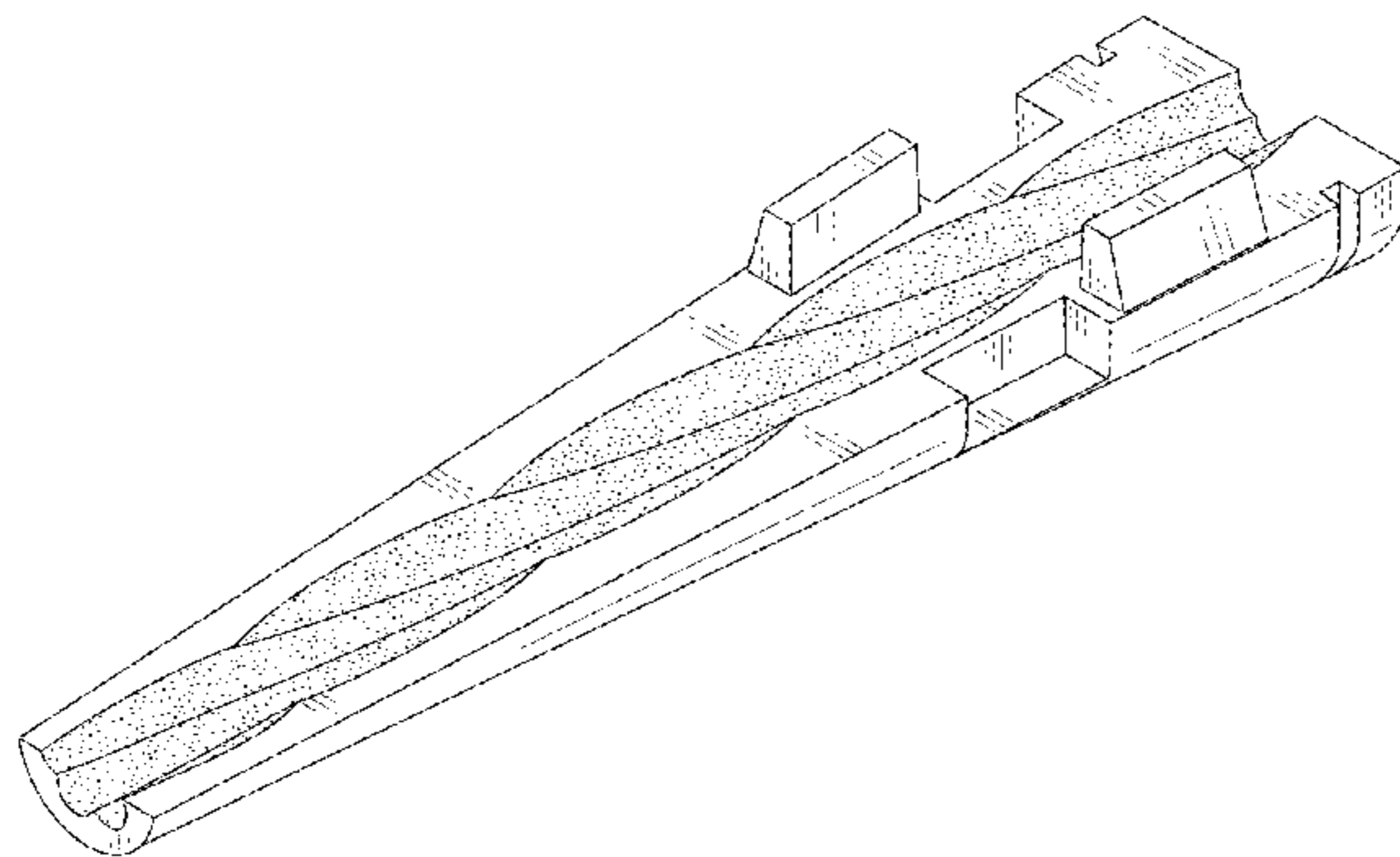


FIG. 16 a is left side view thereof;
 FIG. 17 is a right side view thereof;
 FIG. 18 is an enlarged cross-sectional view thereof, taken along line 18-18 in FIG. 12;
 FIG. 19 is an enlarged cross-sectional view thereof, taken along line 19-19 in FIG. 12; and,
 FIG. 20 is a perspective view showing the state of use thereof.
 The broken line showing 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
 2201/2083; 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
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See application file for complete search history.

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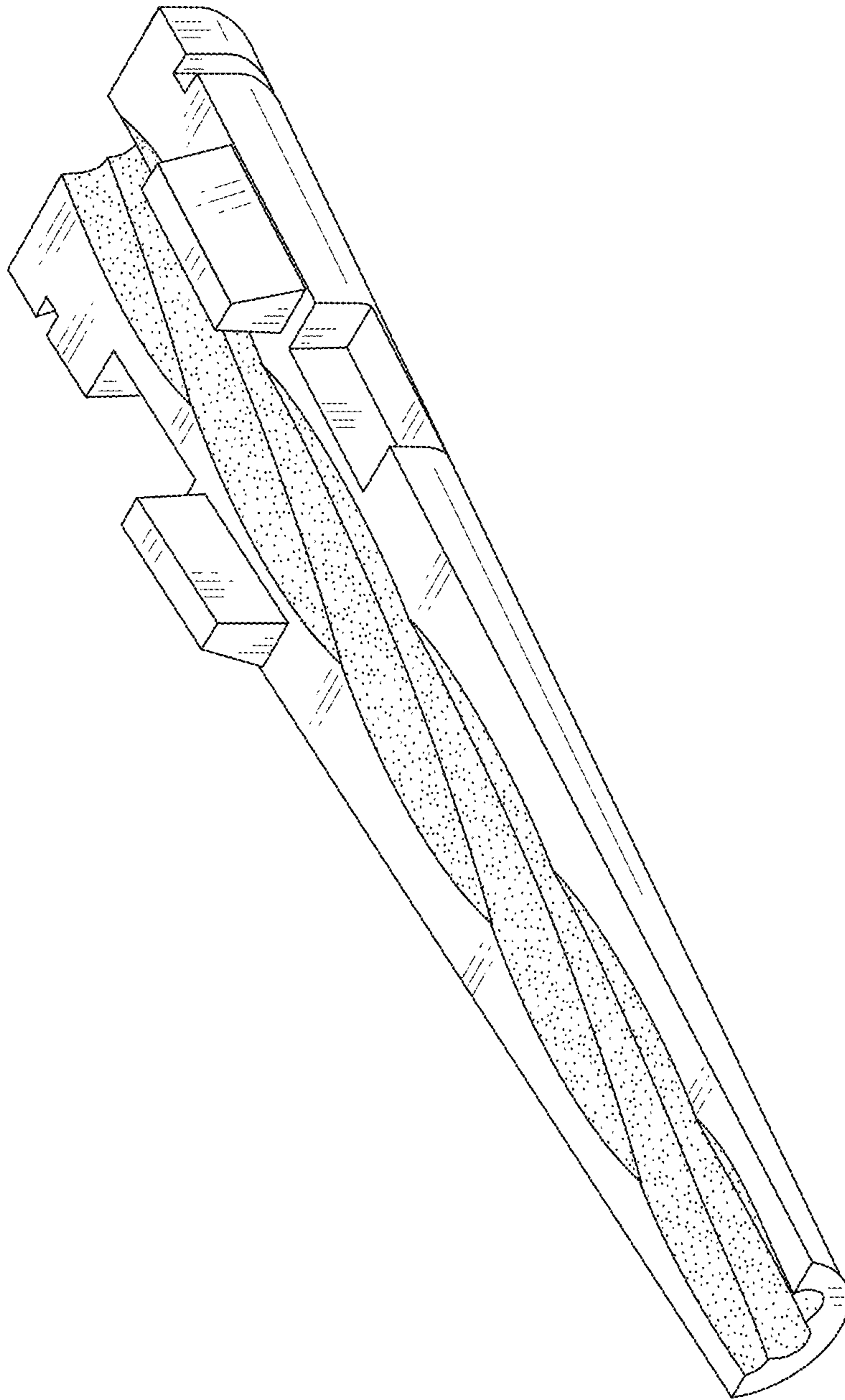


Fig. 1

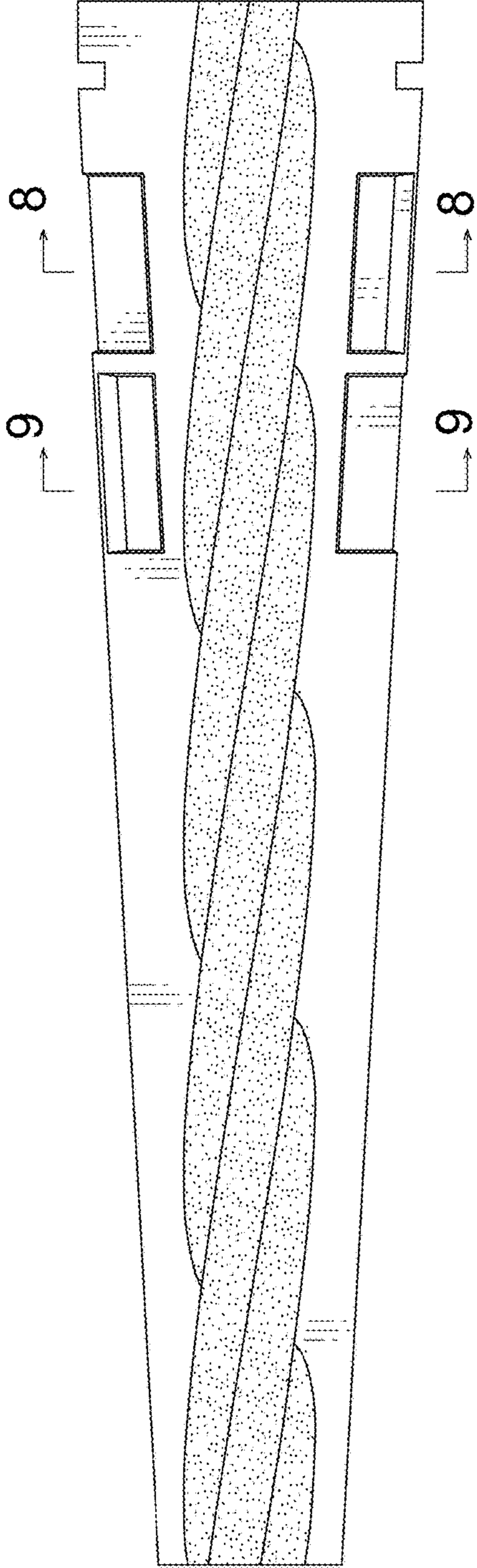


Fig. 2

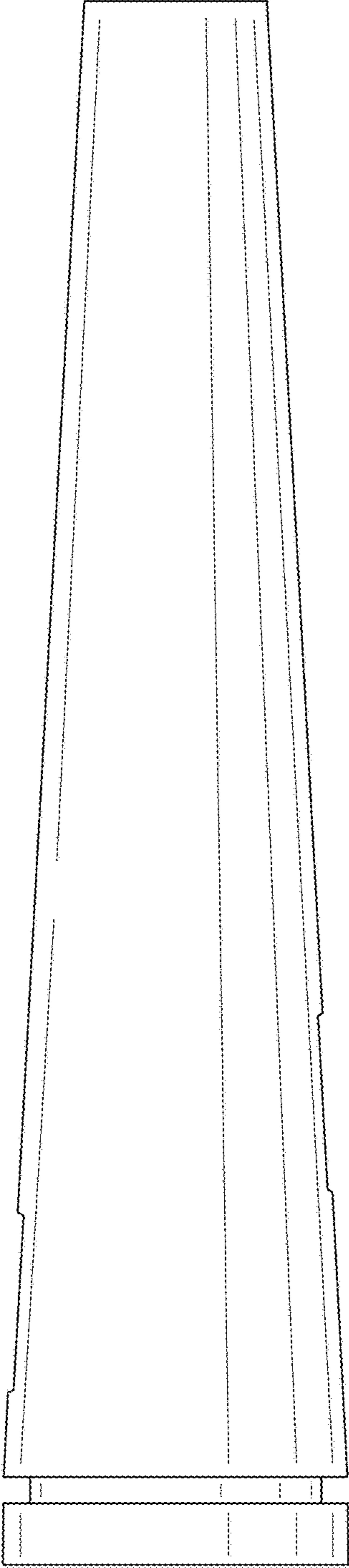


Fig. 3

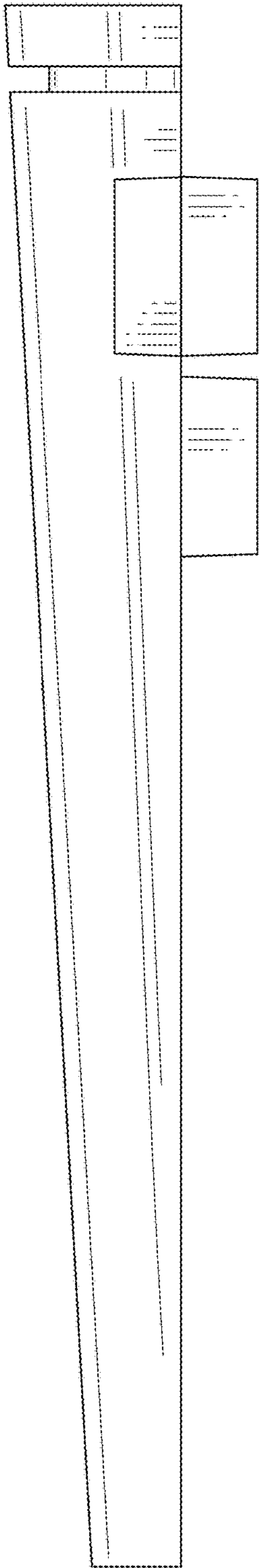


Fig. 4

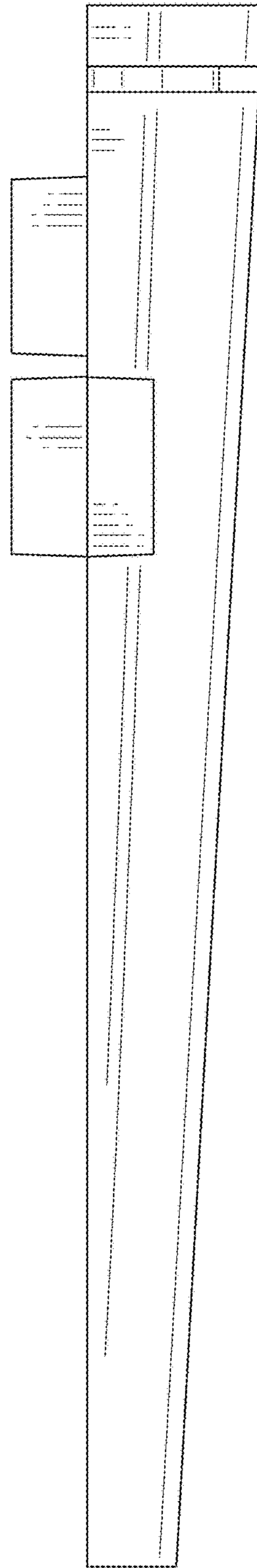


Fig. 5

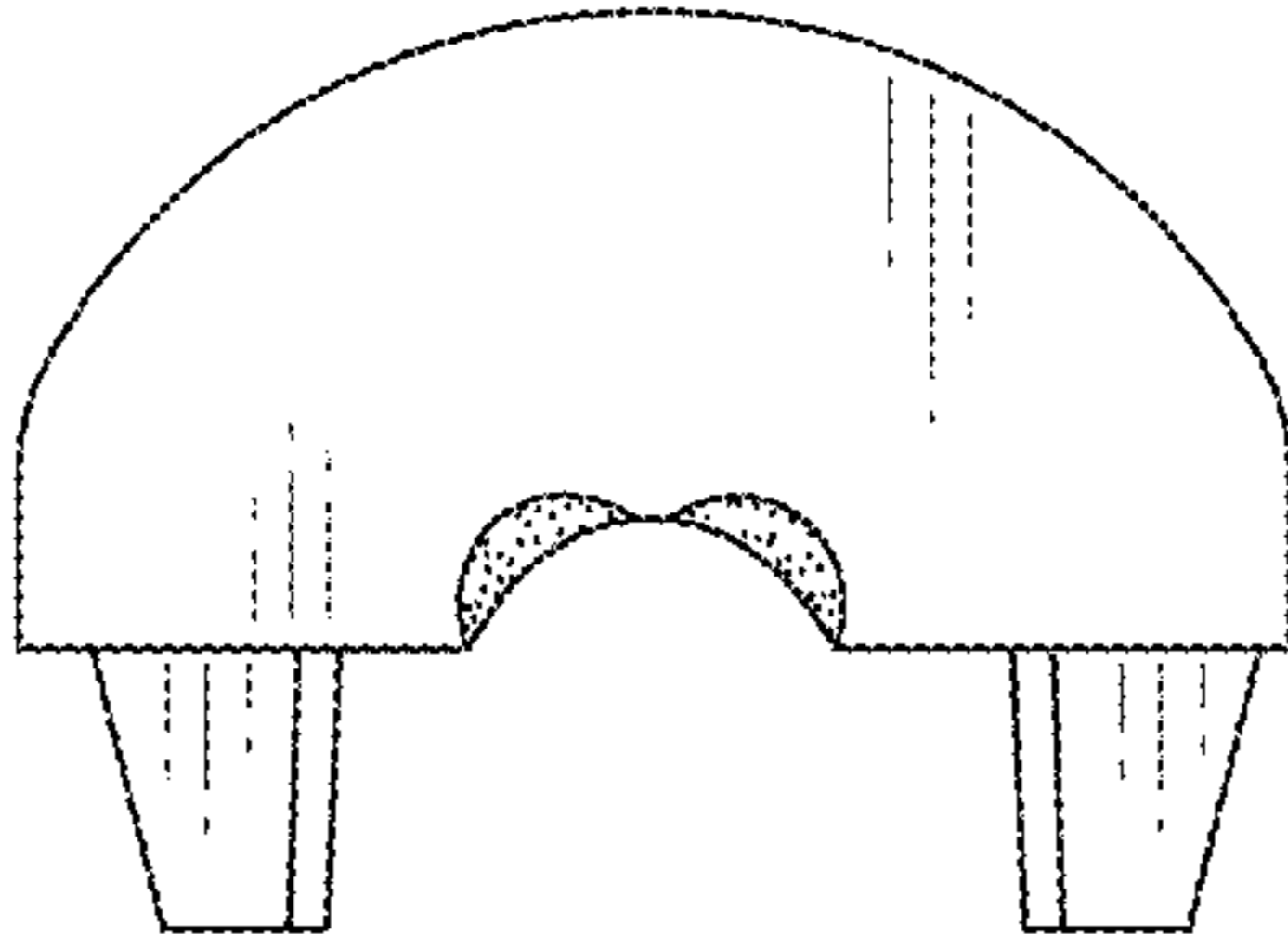


Fig. 7

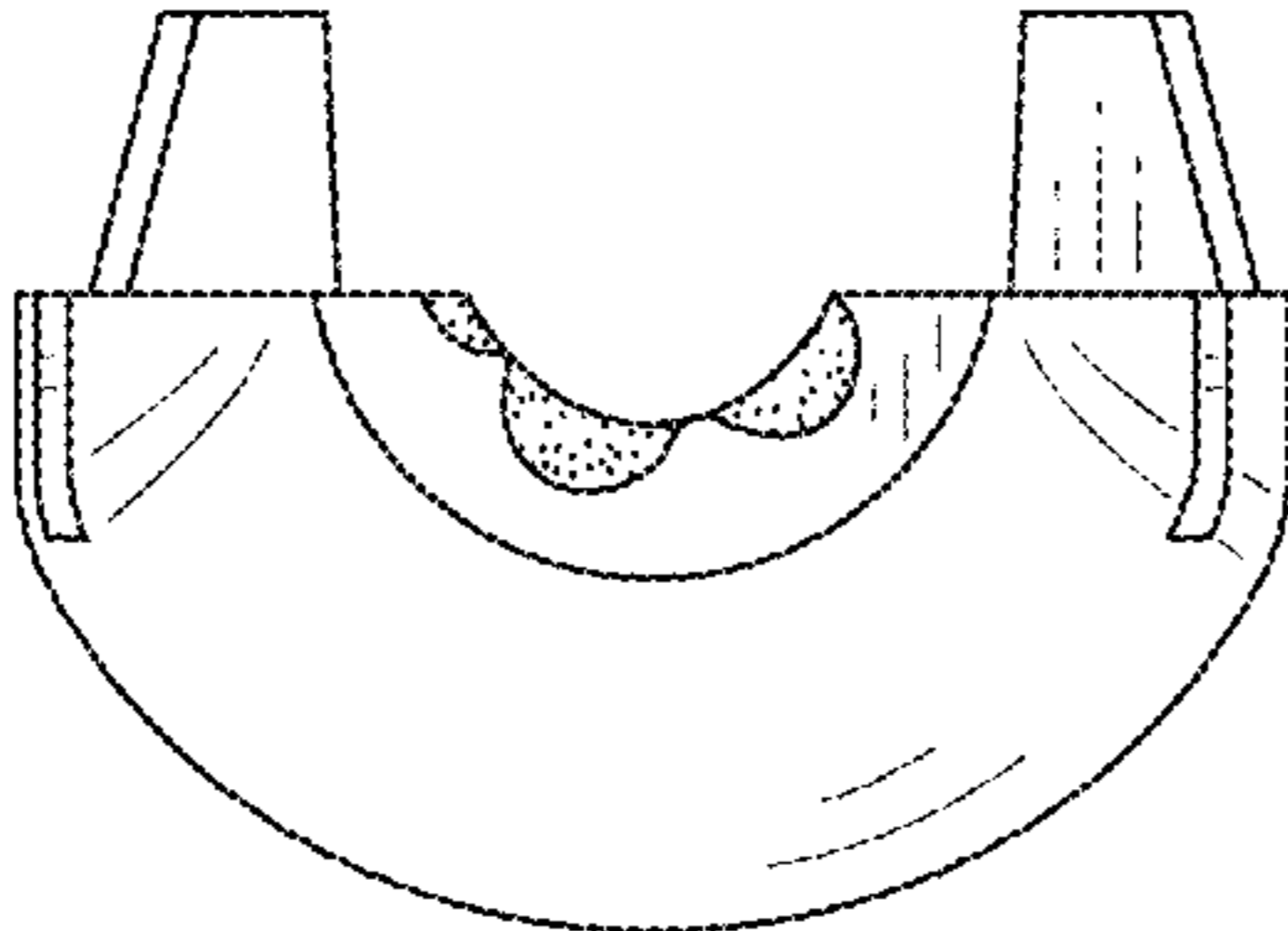


Fig. 6

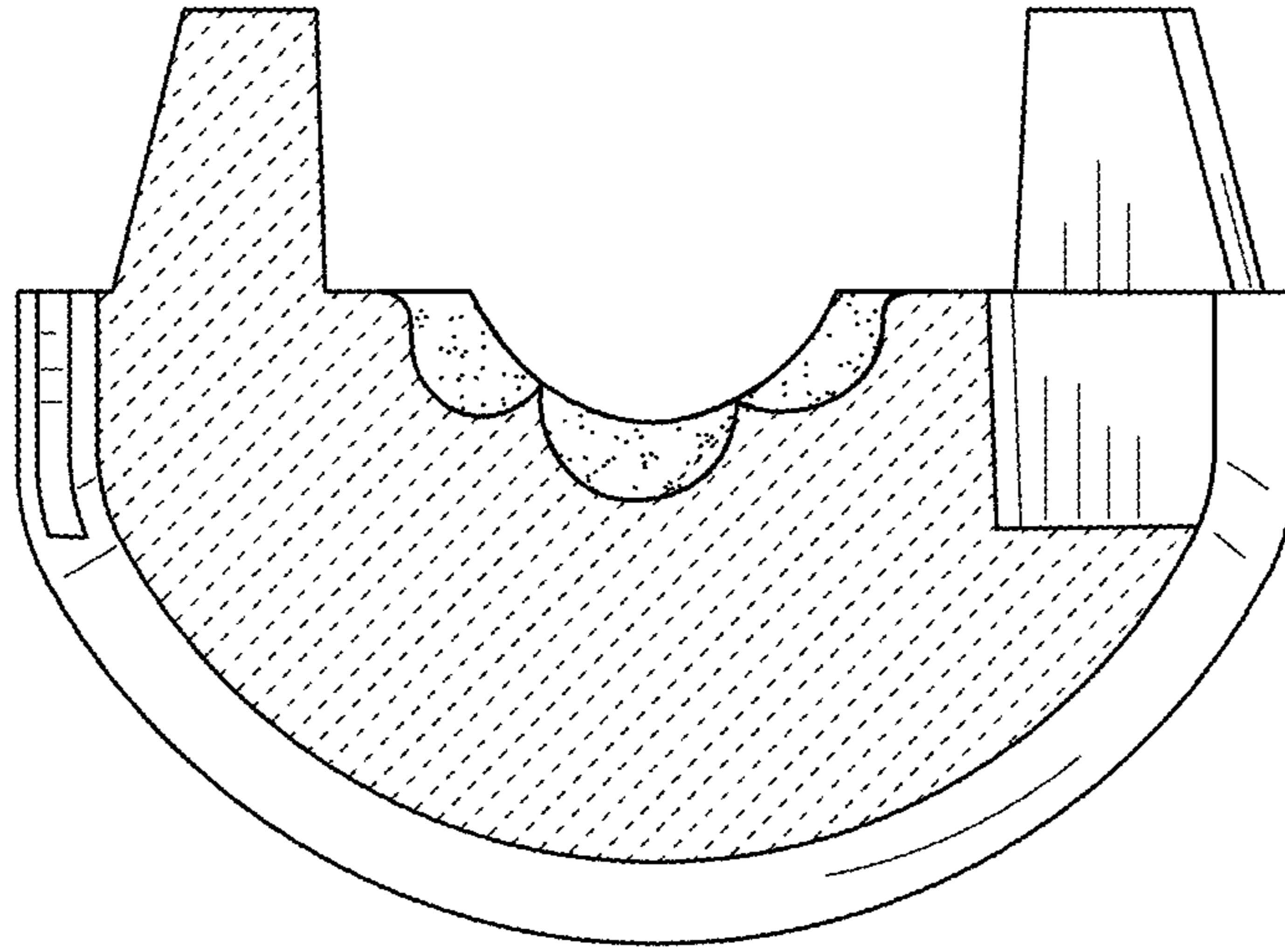


Fig. 9

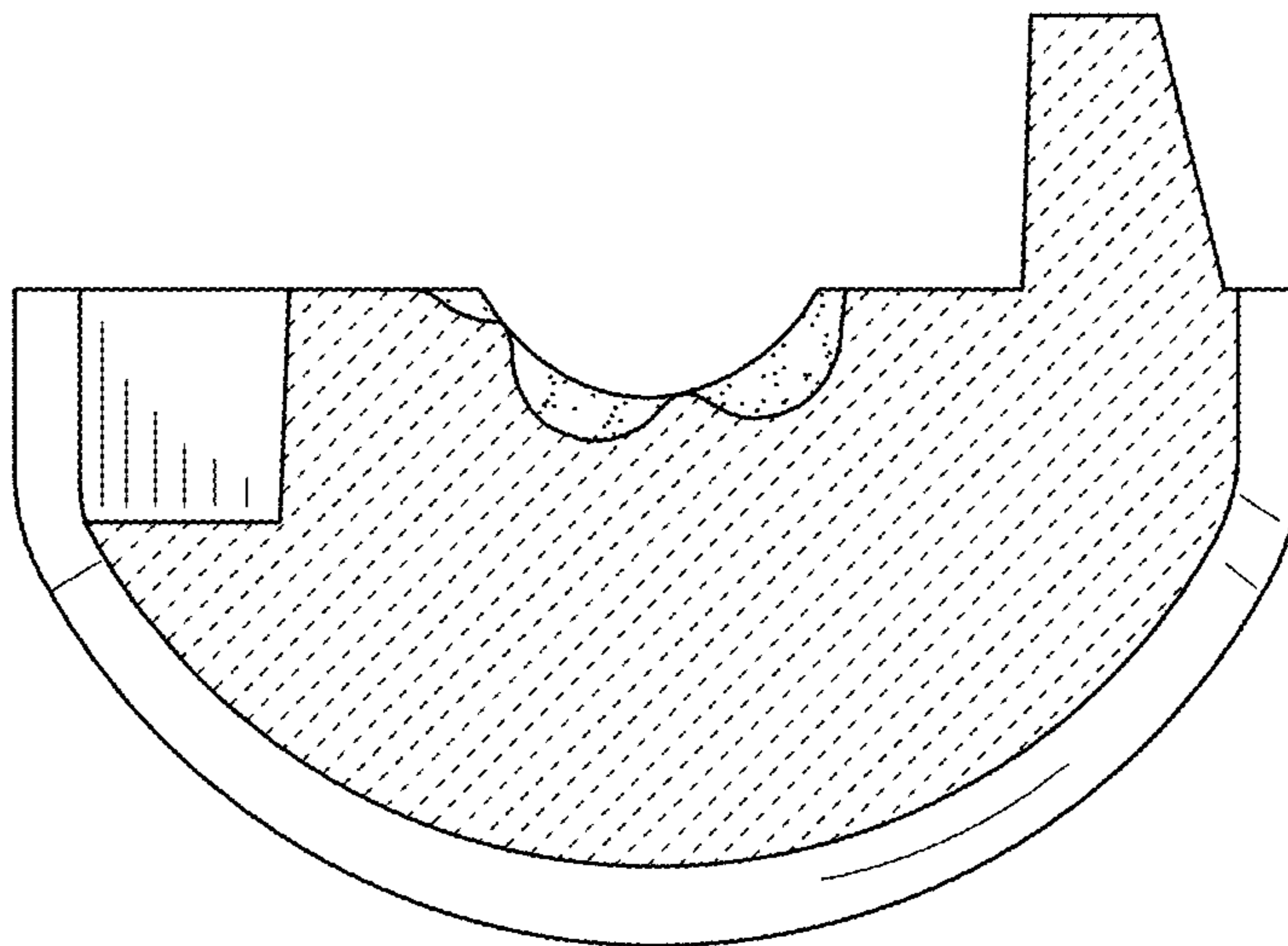


Fig. 8

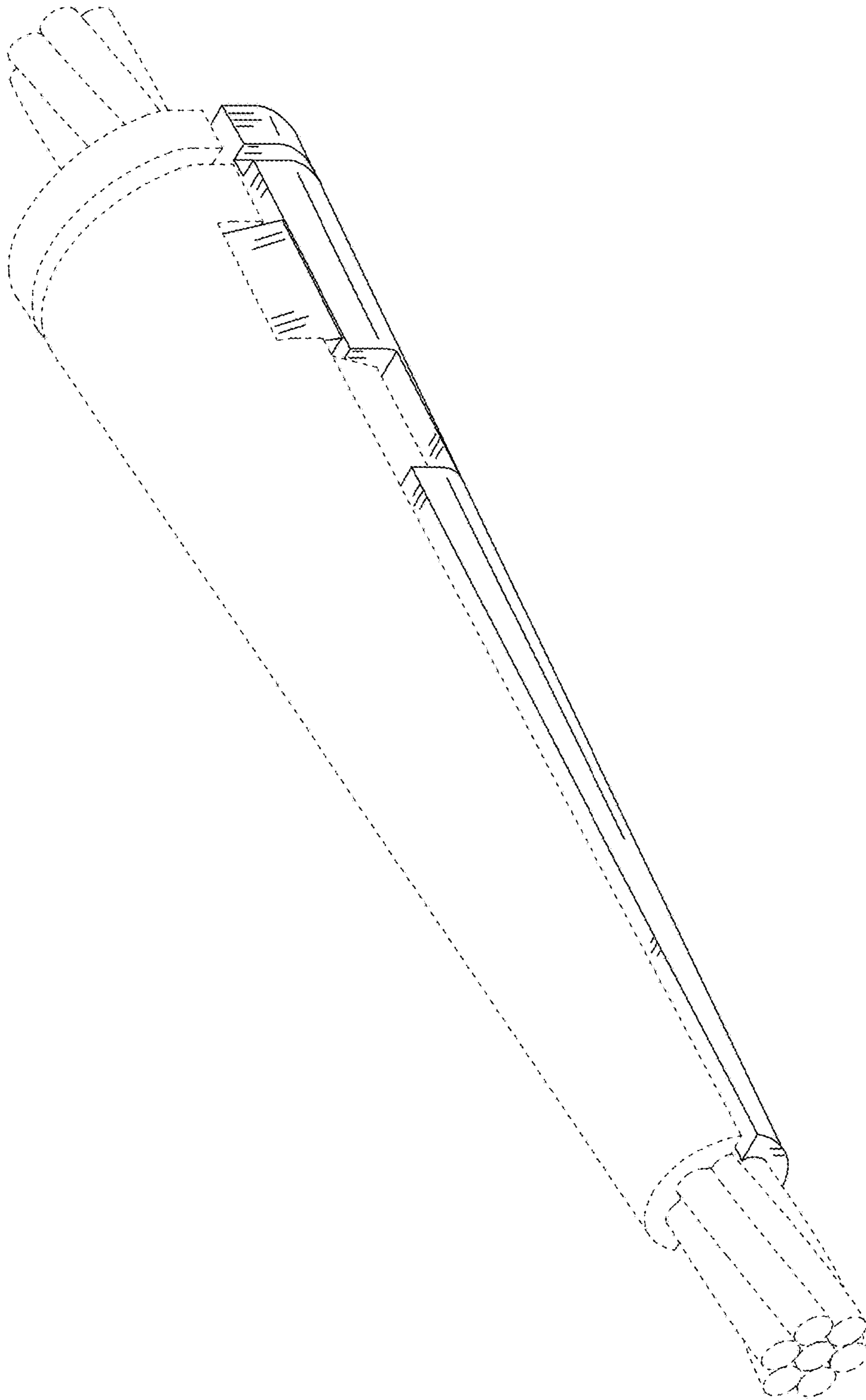


Fig. 10

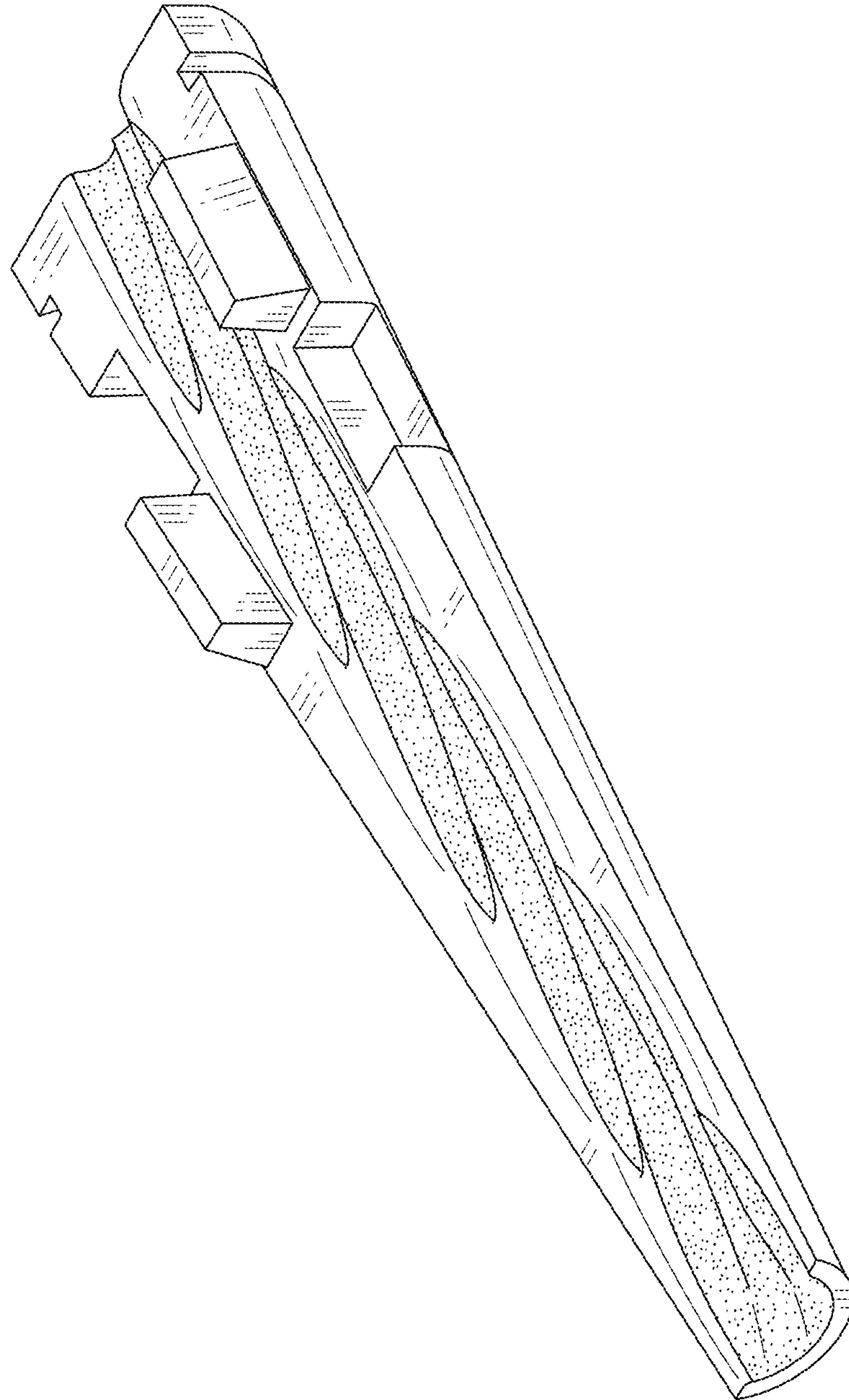


Fig. 11

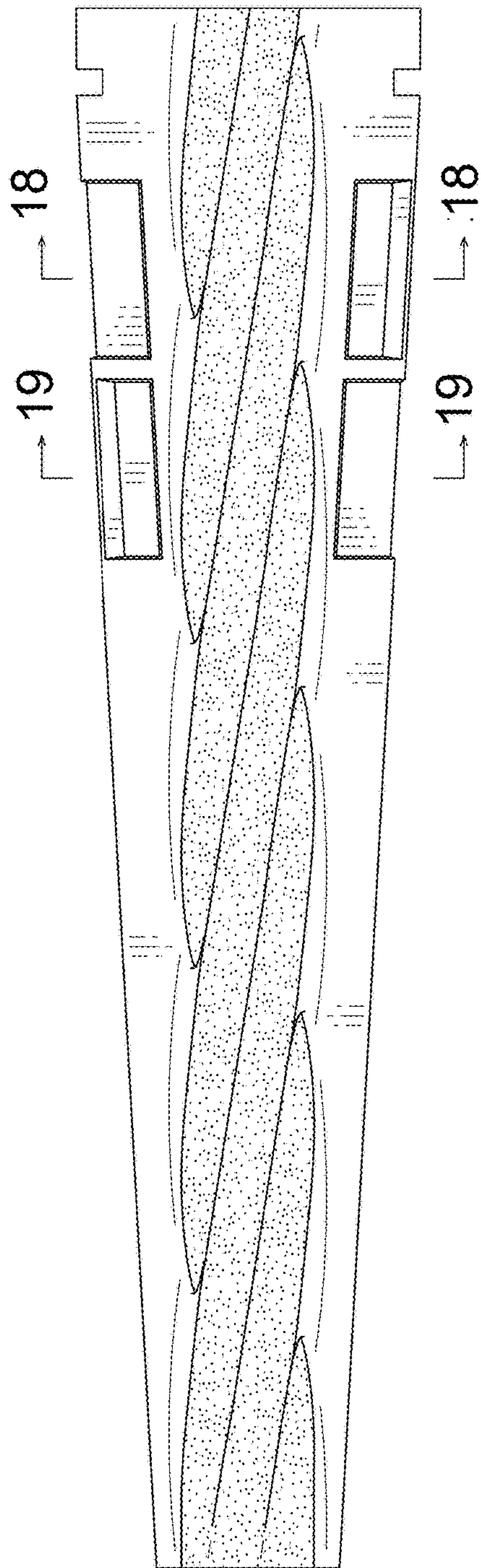


Fig. 12

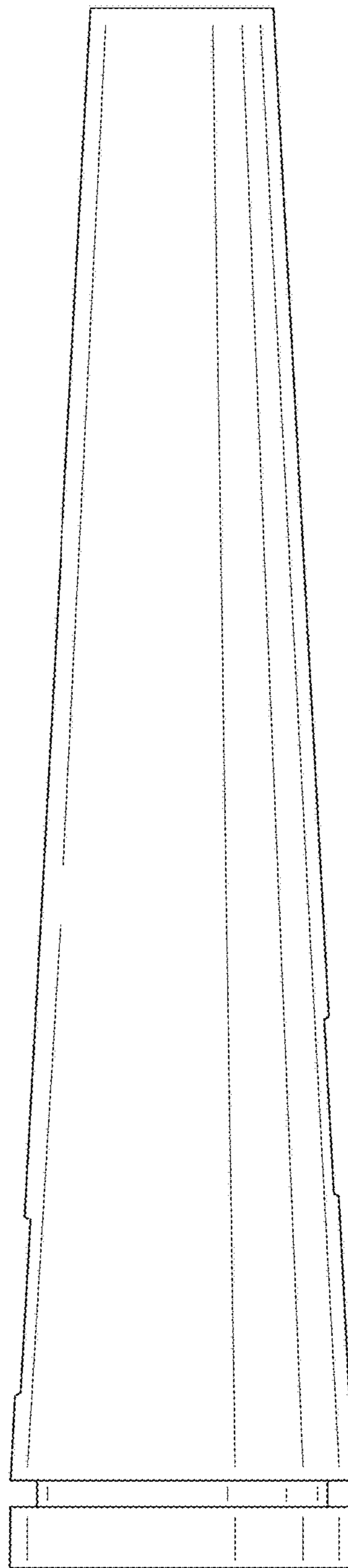


Fig. 13

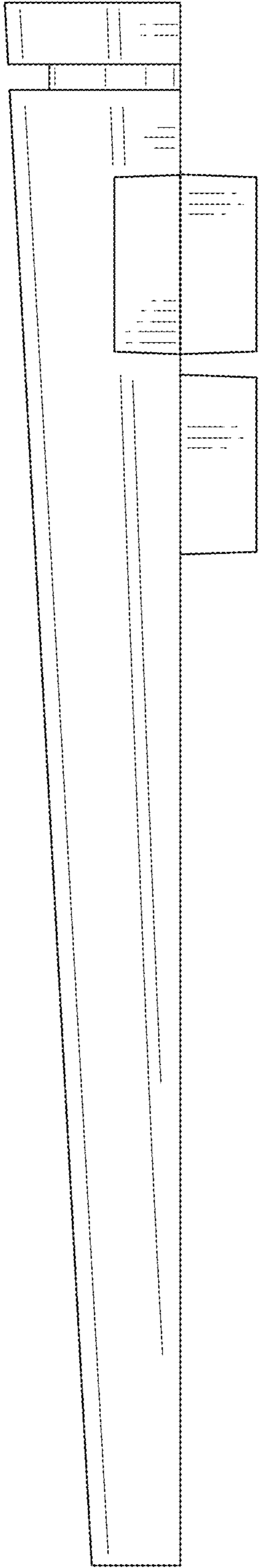


Fig. 14

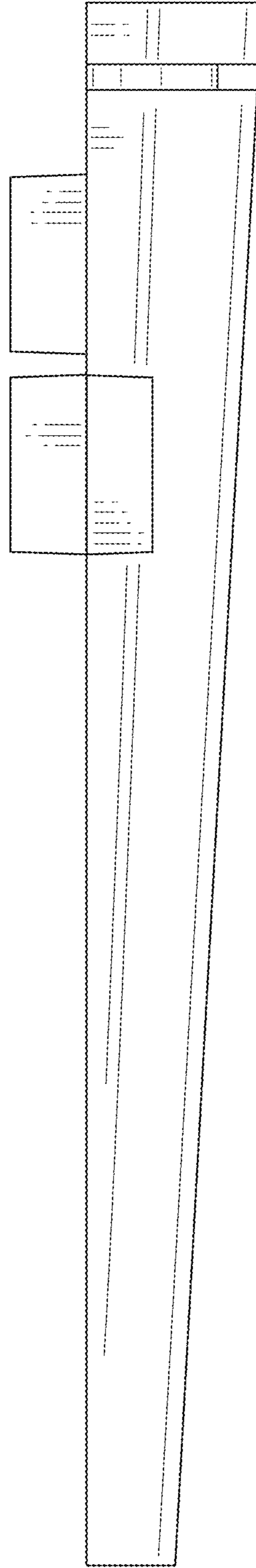


Fig. 15

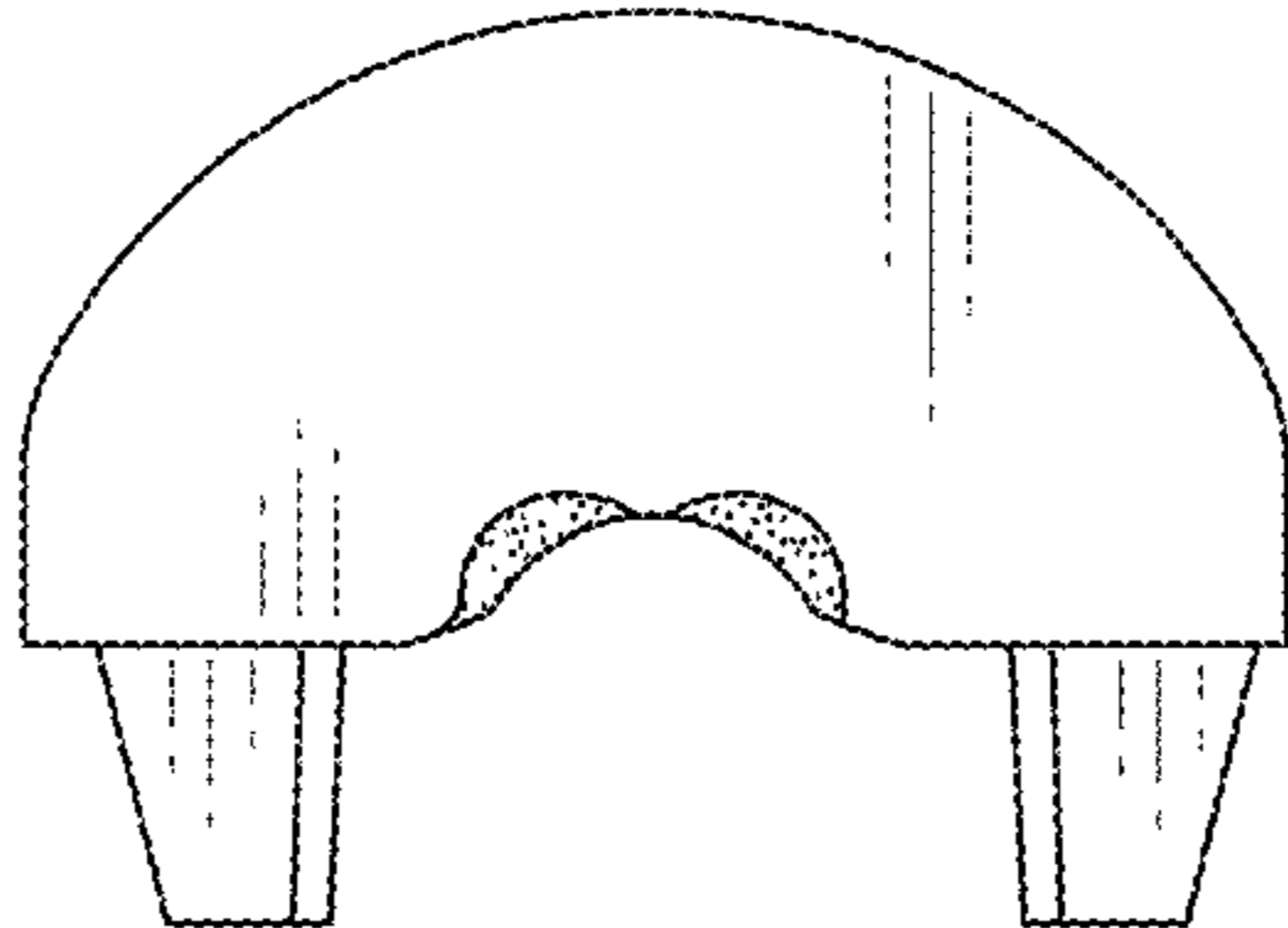


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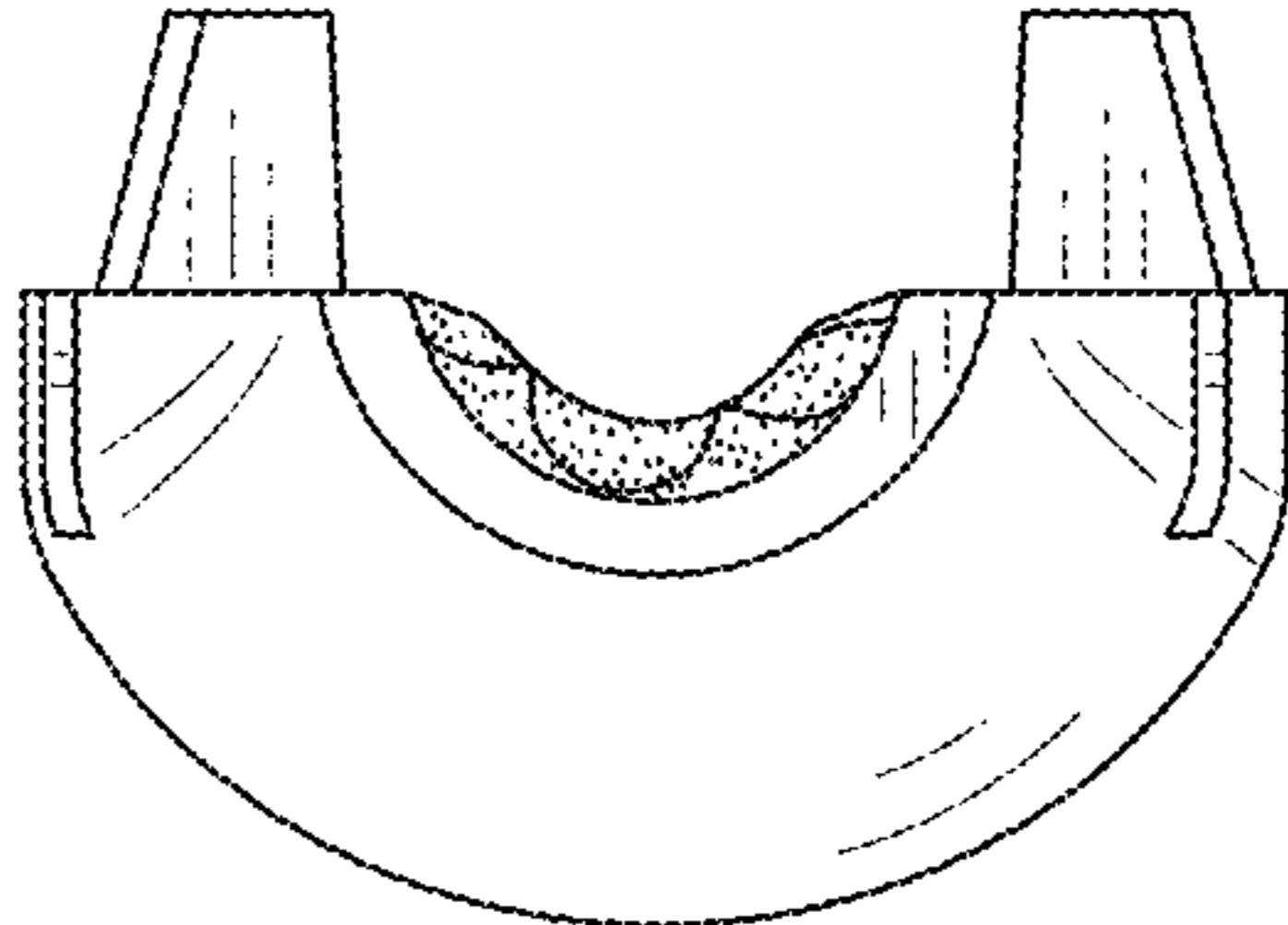


Fig. 16

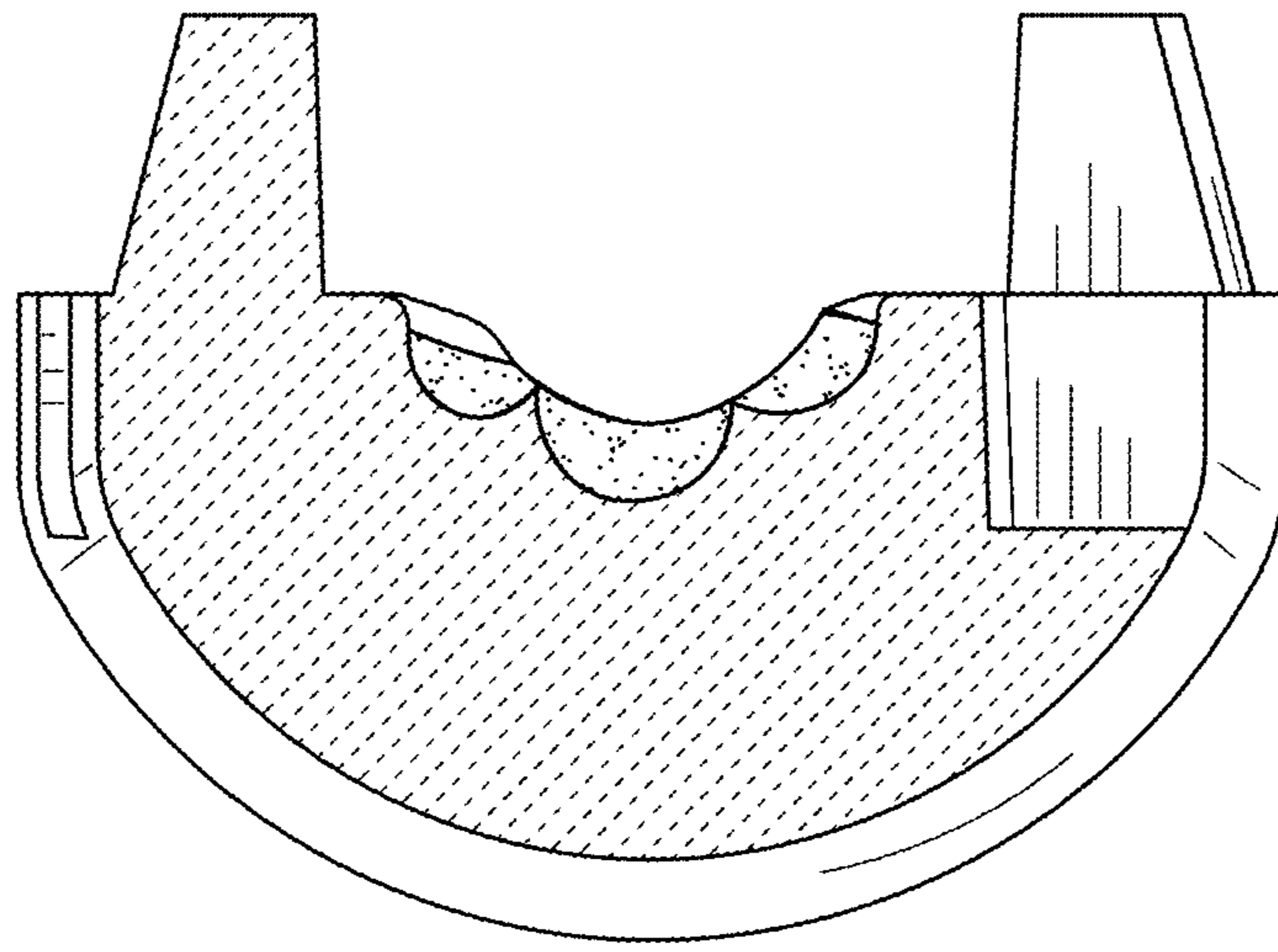


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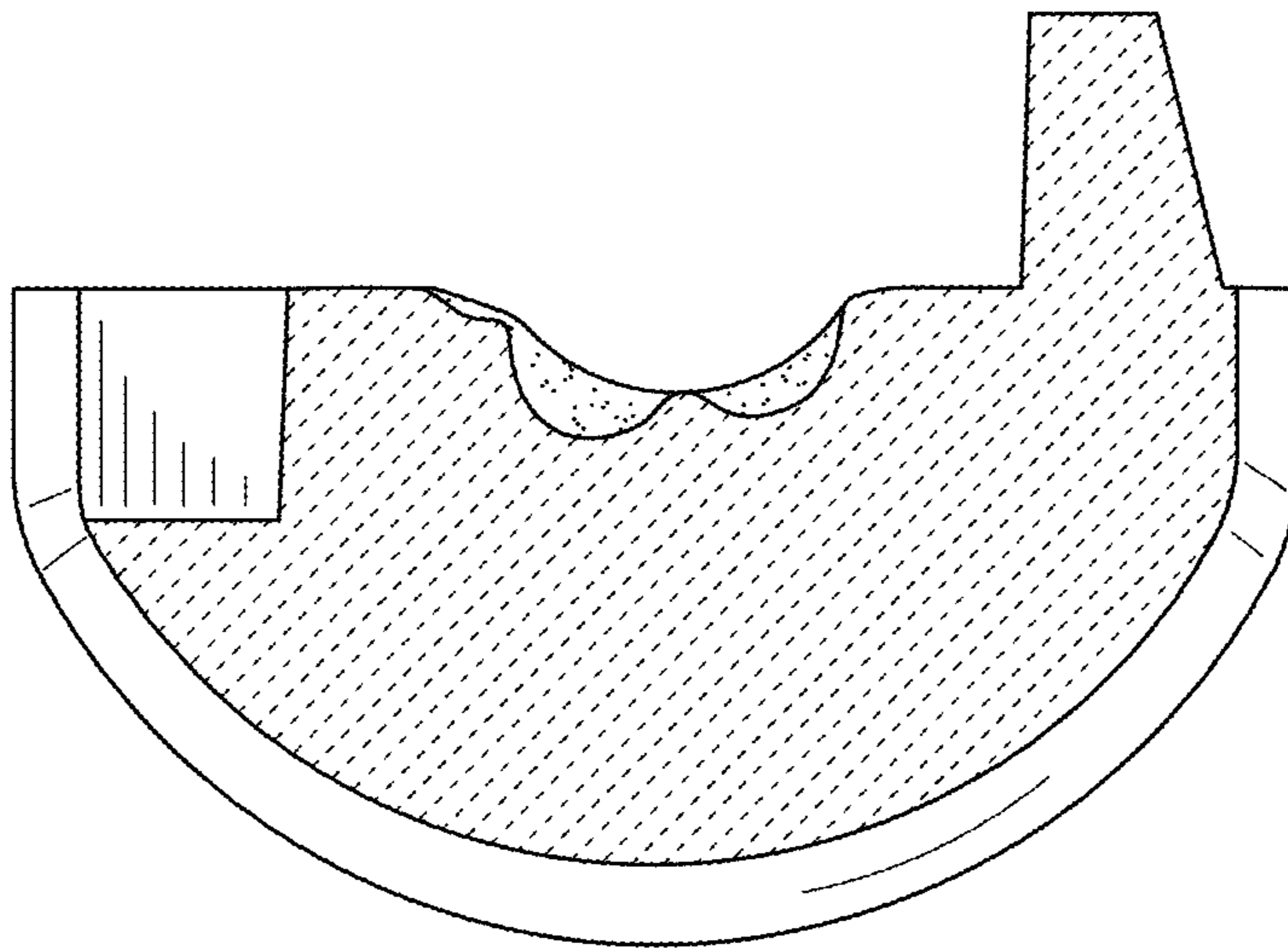


Fig. 18

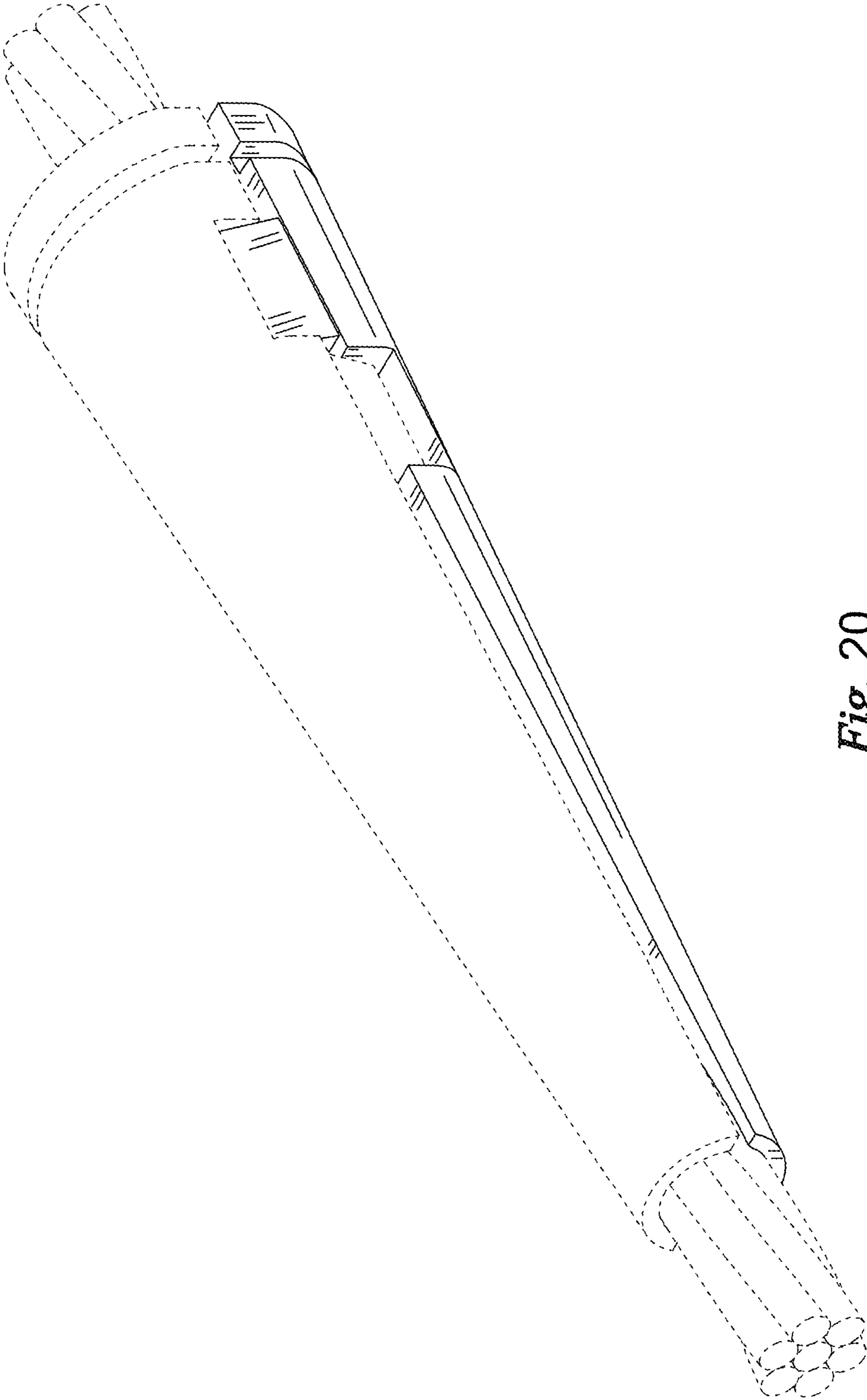


Fig. 20