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

(10) **Patent No.:** **US D815,940 S**  
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(54) **TOOL FOR FIXING A TENSION MEMBER OF COMPOSITE STRAND FOR PRESTRESSED CONCRETE REINFORCEMENT AND POST TENSIONING CONCRETE STRUCTURE**

2201/2089; F16G 11/00; F16G 11/03; F16G

(Continued)

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(71) Applicant: **TOKYO ROPE MFG. CO., LTD.**,  
Chuo-ku, Tokyo (JP)

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(72) Inventors: **Daisuke Manabe**, Kasumigaura Ibaraki (JP); **Shunji Hachisuka**, Kasumigaura Ibaraki (JP); **Hiroshi Kimura**, Noda Chiba (JP); **Fumihiro Matsuda**, Kasumigaura Ibaraki (JP); **Kohsuke Ashiduka**, Chikushino Fukuoka (JP)

*Primary Examiner* — Sandra S Snapp

*Assistant Examiner* — Ieisha N Price

(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.

(73) Assignee: **TOKYO ROPE MFG. CO., LTD.**,  
Tokyo (JP)

**DESCRIPTION**

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

(21) Appl. No.: **29/564,839**

(22) Filed: **May 16, 2016**

(30) **Foreign Application Priority Data**

Dec. 21, 2015 (JP) ..... 2015-028362  
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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  
CPC . D07B 1/18; D07B 1/005; D07B 9/00; D07B  
2201/20; D07B 2201/2083; D07B  
2201/2084; D07B 2201/2085; D07B

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;

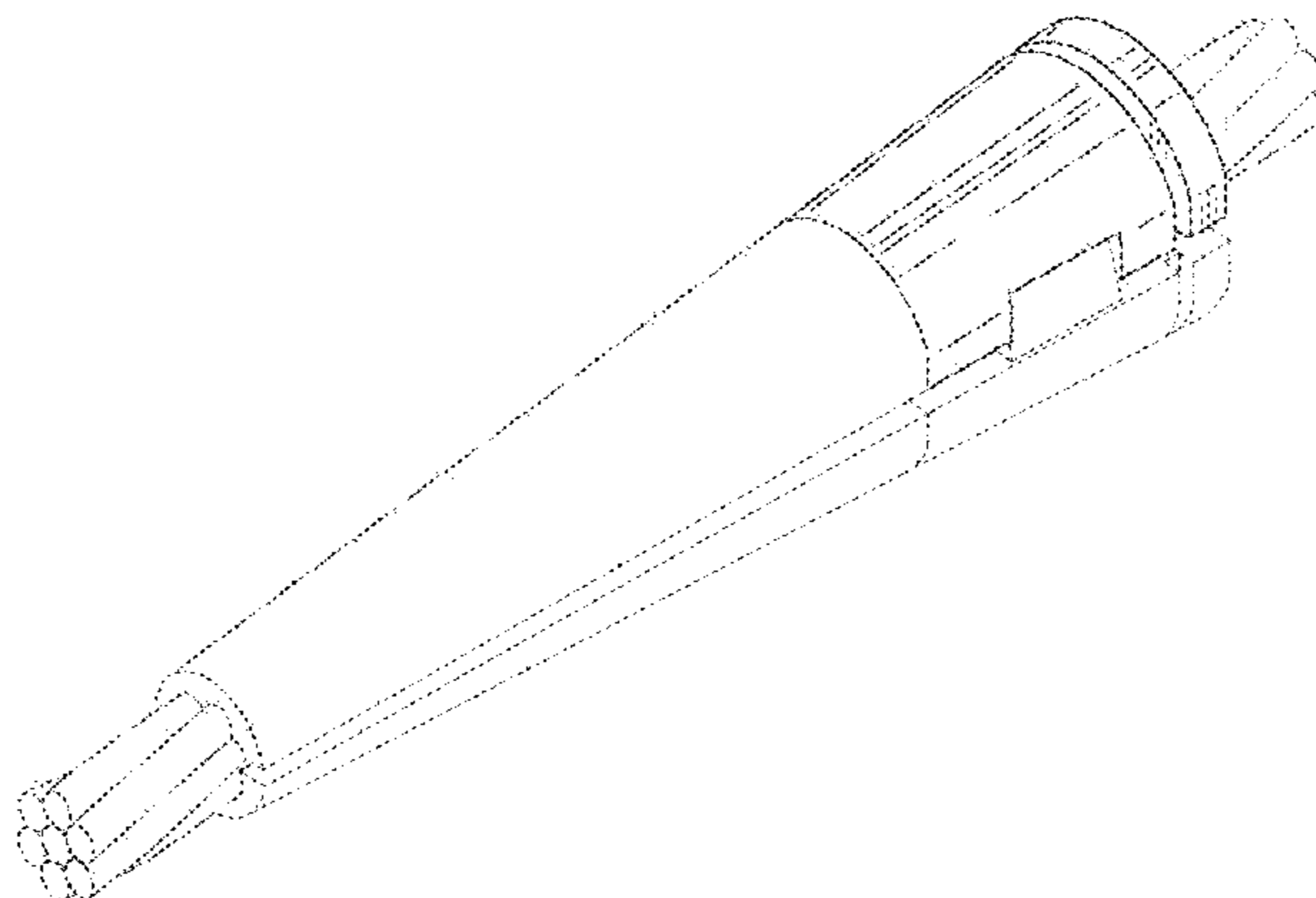
FIG. 6 is a left side view thereof;

FIG. 7 is a right side view thereof;

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

FIG. 9 is a perspective view showing the state of use thereof. The broken lines in the drawings 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 line showing of the cable in FIG. 9 illustrates the environment of the claimed design and forms no part

(Continued)



thereof. The dot-dash-dot broken lines in the drawings define the bounds of the claim and form no part thereof.

**1 Claim, 5 Drawing Sheets**

**(58) Field of Classification Search**

CPC ..... 11/04; F16G 11/048; F16G 11/08; F16G 11/10; F16G 11/105; F16G 11/108  
See application file for complete search history.

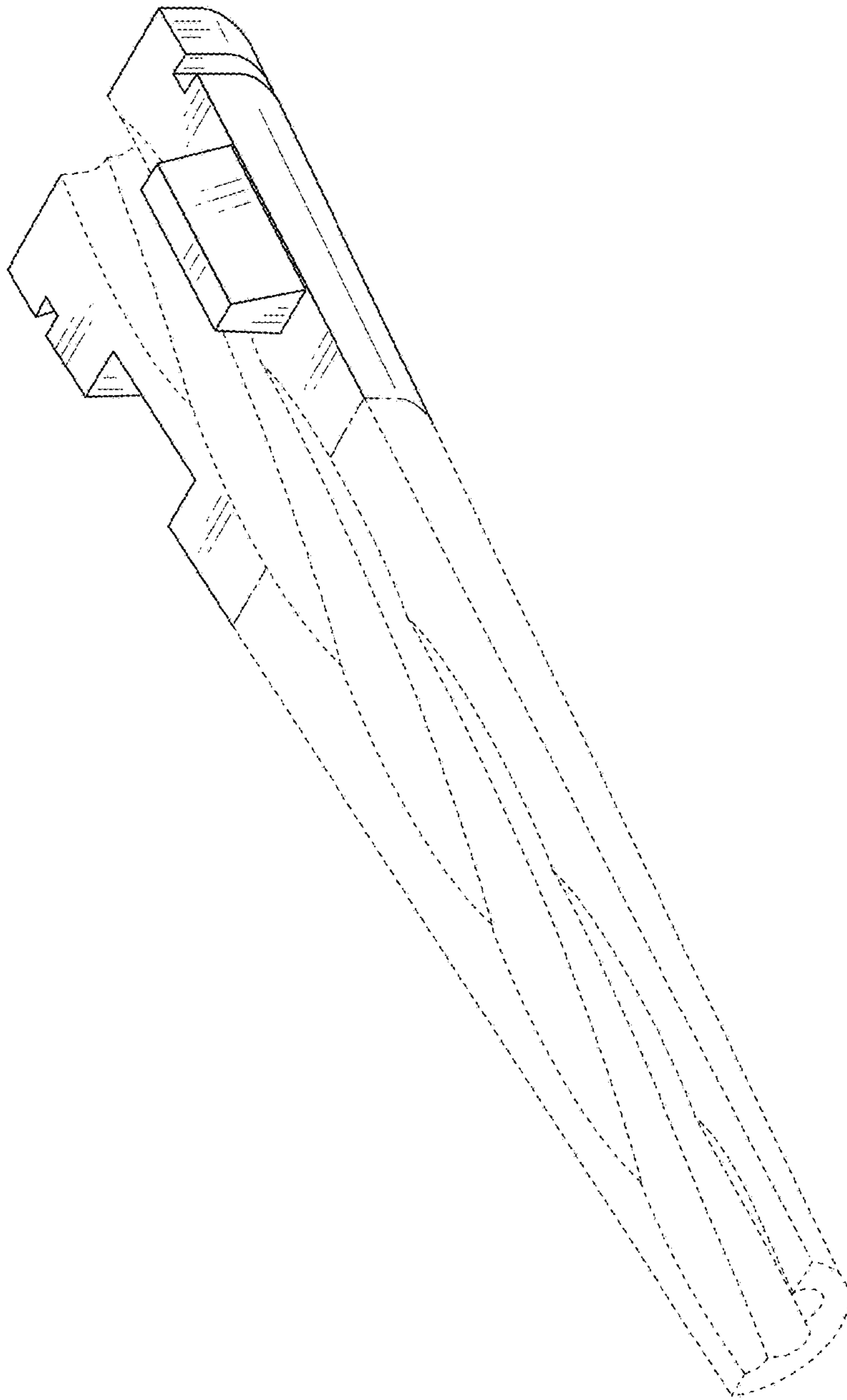
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*Fig. 1*

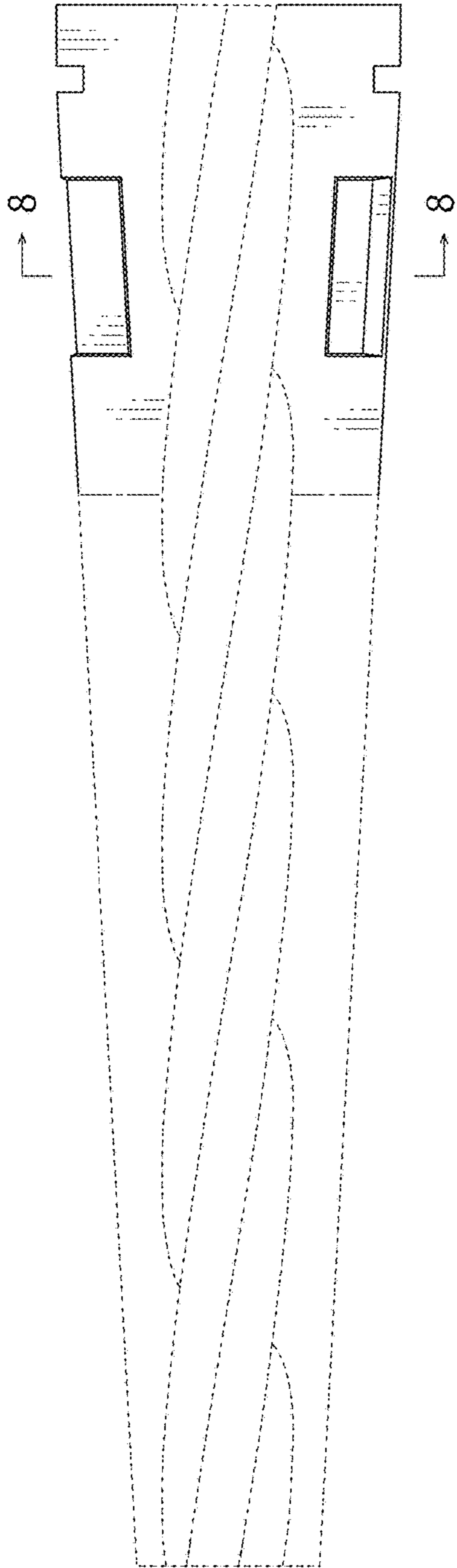


Fig. 2

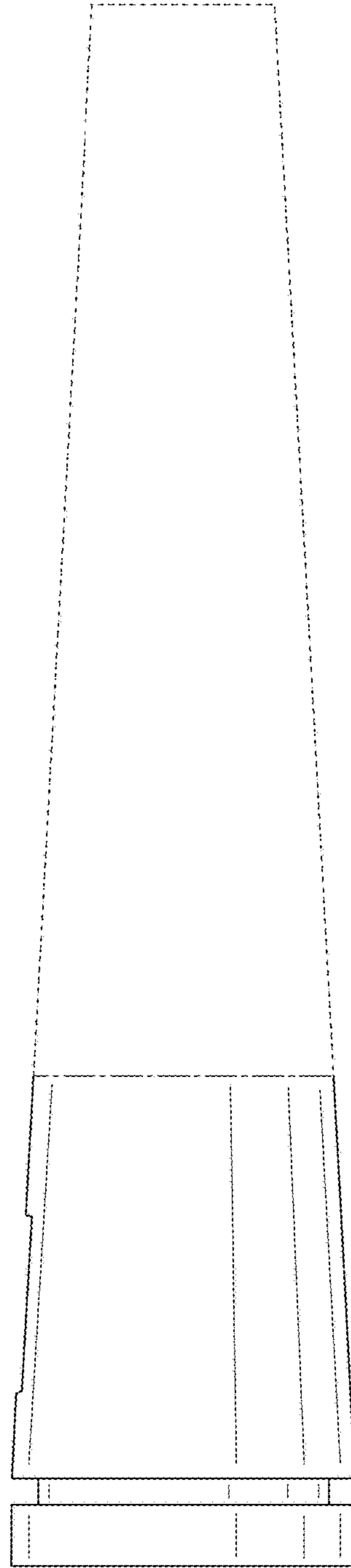
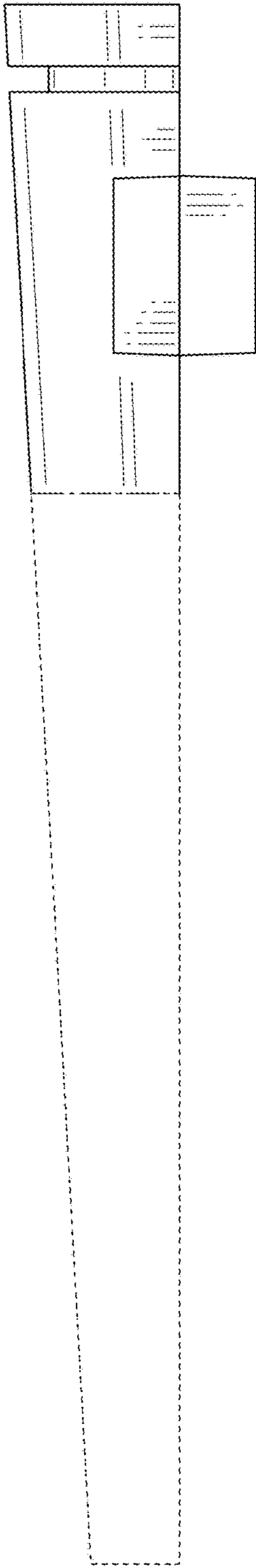
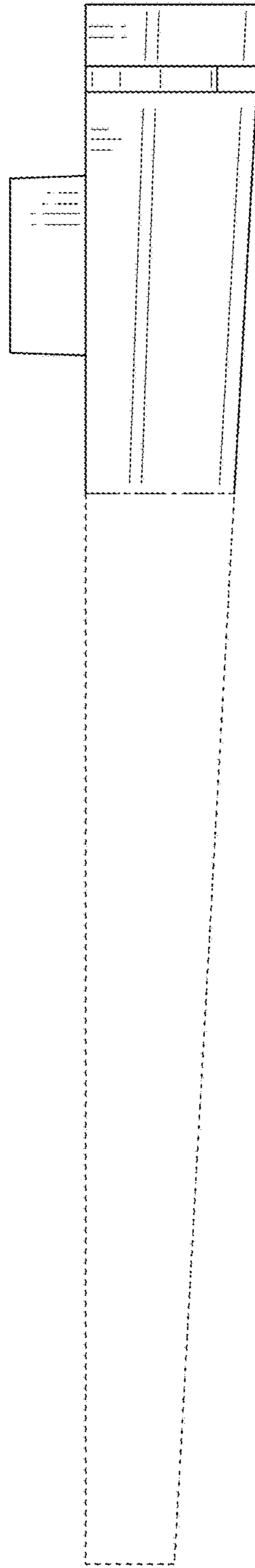


Fig. 3



*Fig. 4*



*Fig. 5*

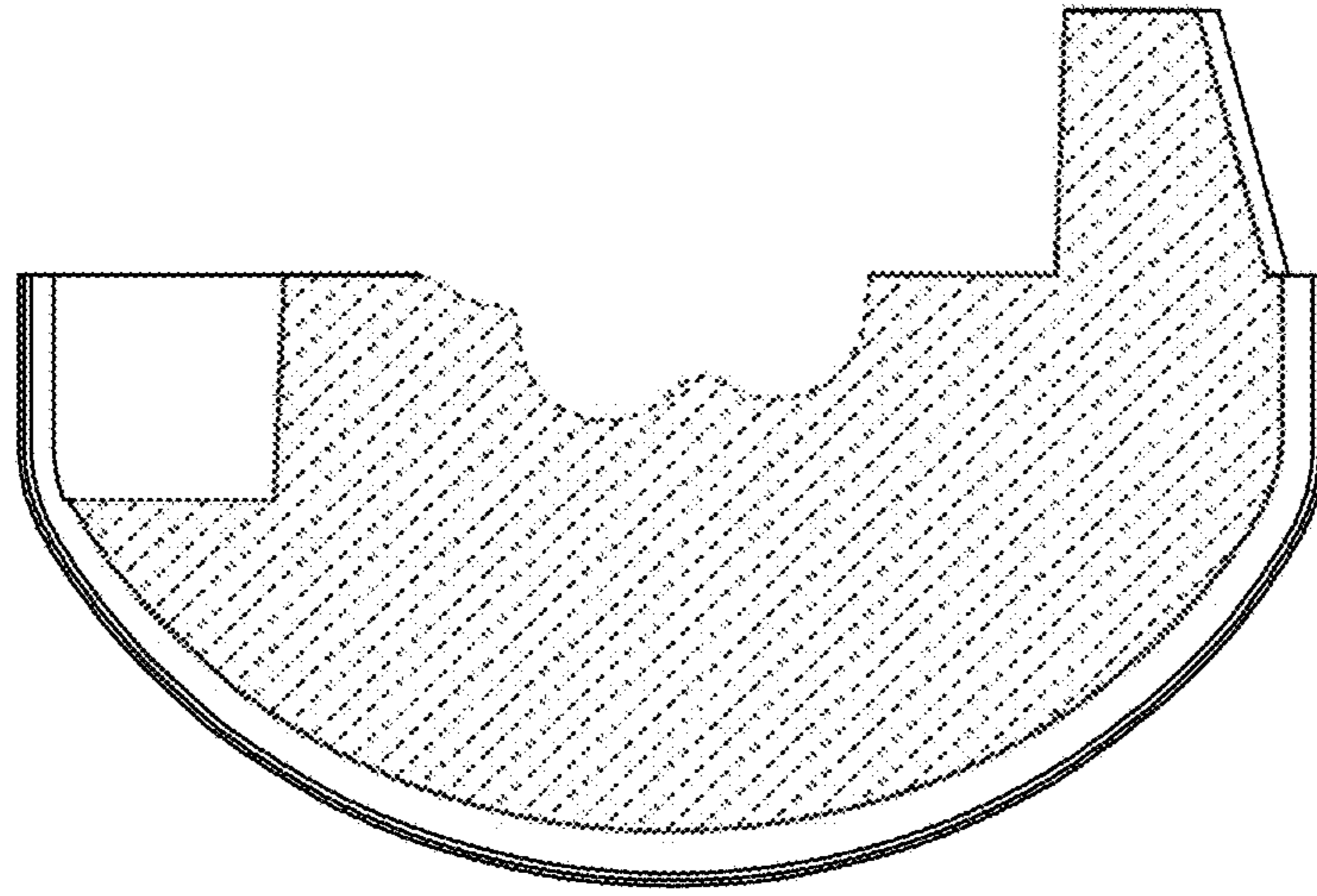


Fig. 8

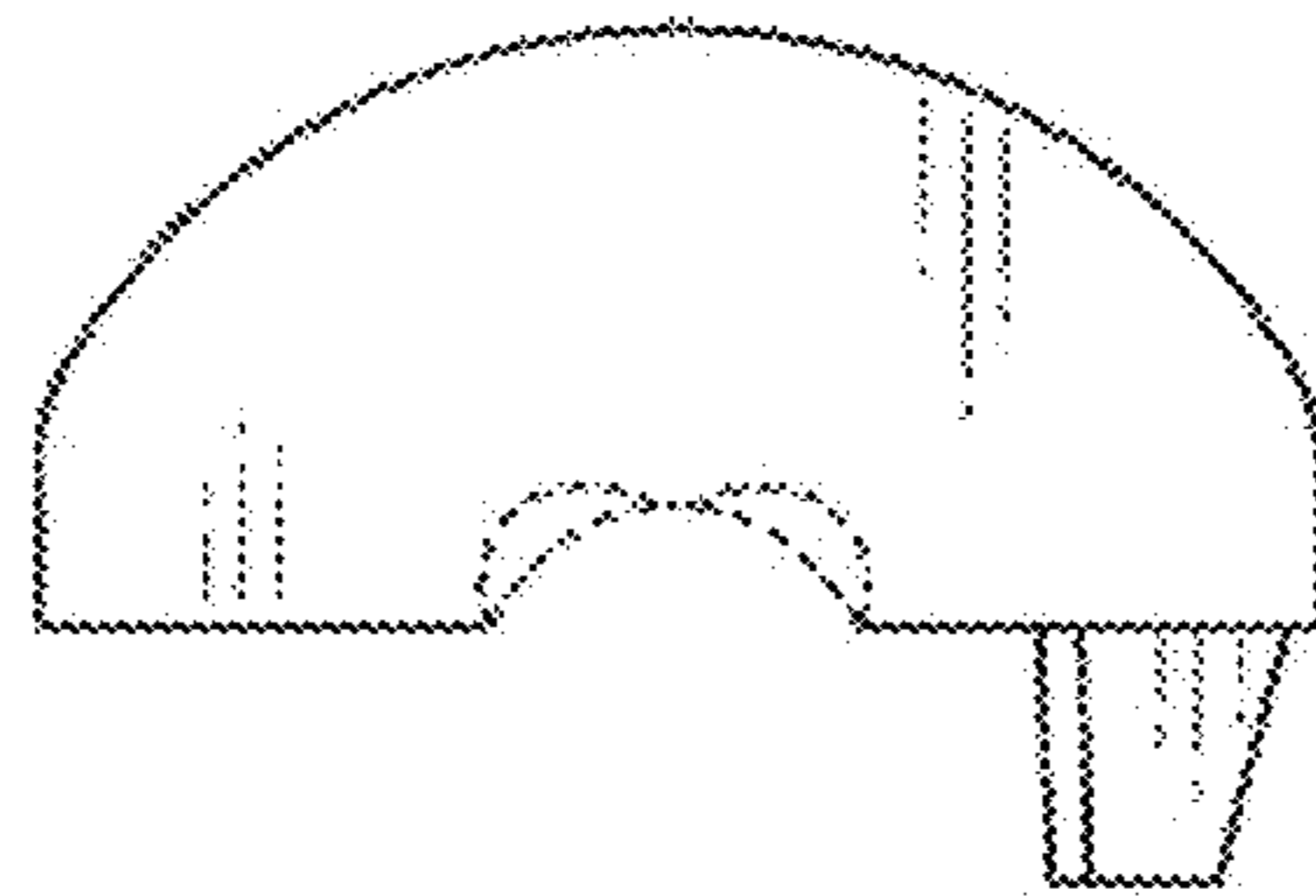


Fig. 7

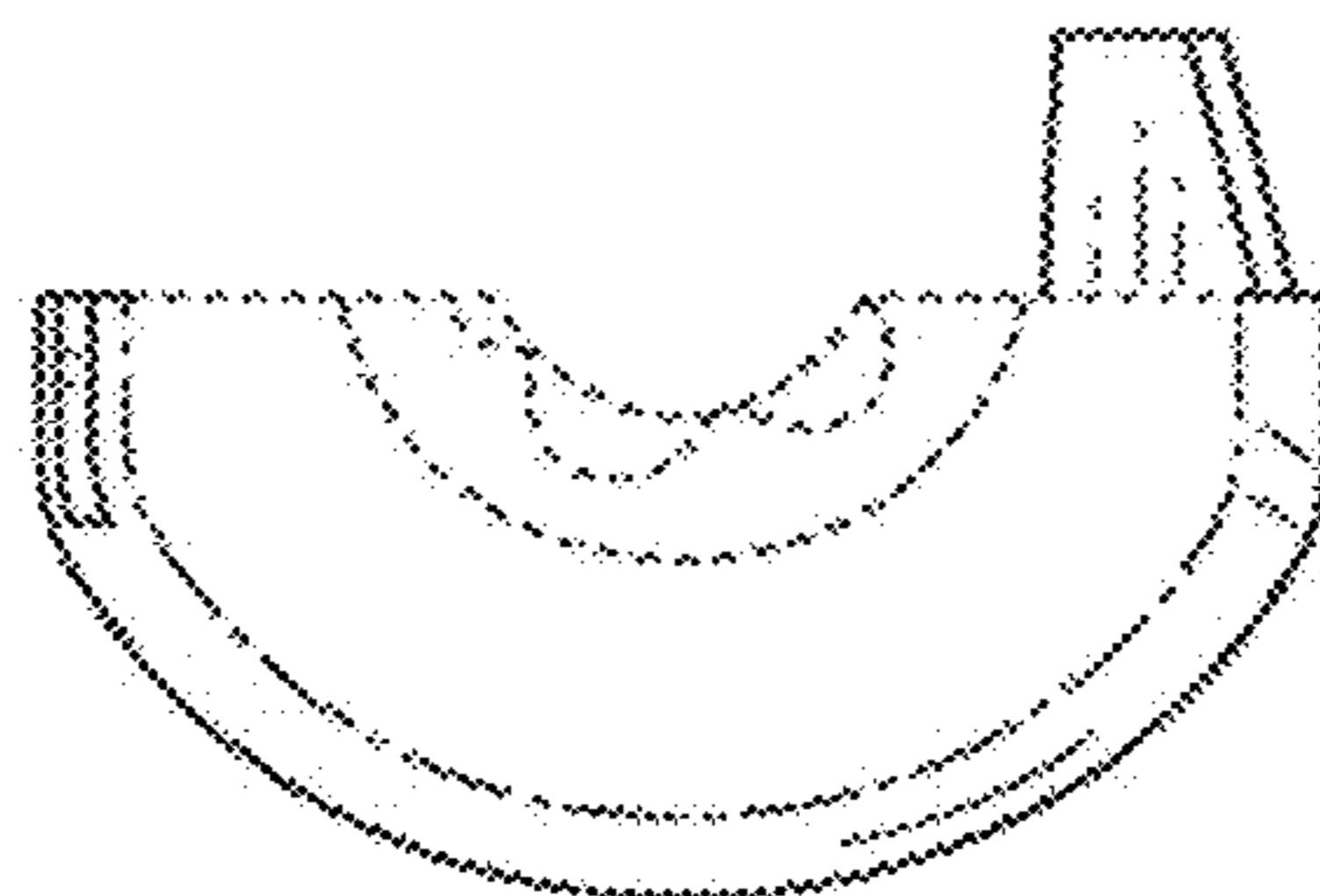


Fig. 6

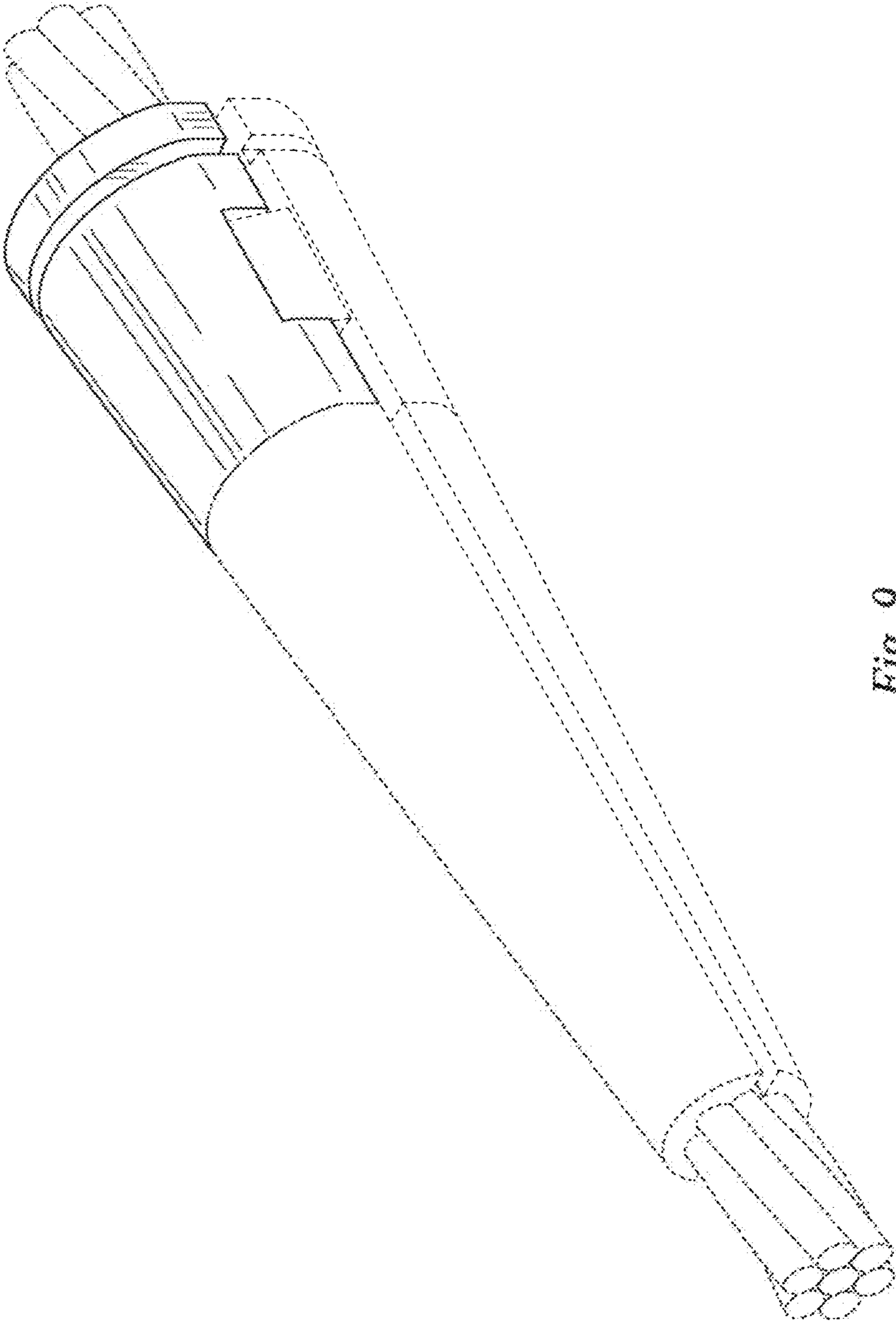


Fig. 9