



US00D921191S

(12) **United States Design Patent** (10) **Patent No.:** **US D921,191 S**  
**Tani** (45) **Date of Patent:** **\*\* Jun. 1, 2021**

(54) **MEDICINE INJECTOR**  
(71) Applicant: **PHC Holdings Corporation**, Tokyo (JP)  
(72) Inventor: **Ryosuke Tani**, Ehime (JP)  
(73) Assignee: **PHC Holdings Corporation**, Tokyo (JP)  
(\*\*) Term: **15 Years**  
(21) Appl. No.: **29/680,108**  
(22) Filed: **Feb. 13, 2019**

D695,395 S 12/2013 Tani et al.  
D732,410 S \* 6/2015 Waaler ..... D10/81  
D741,995 S 10/2015 Prasser et al.  
D806,233 S \* 12/2017 Wolper ..... D24/112  
D833,624 S \* 11/2018 DeJong ..... D24/186  
D834,708 S \* 11/2018 Glocker ..... D24/113  
D834,709 S \* 11/2018 Glocker ..... D24/113  
D835,285 S \* 12/2018 Barker ..... D24/186  
D837,388 S \* 1/2019 DaCosta ..... D24/186  
D837,975 S \* 1/2019 Protasiewicz ..... D24/113  
10,293,110 B2 \* 5/2019 Murakami ..... A61M 5/20  
2002/0133114 A1 \* 9/2002 Itoh ..... A61P 7/04  
604/67  
2014/0243787 A1 \* 8/2014 Mukai ..... A61M 5/20  
604/506

\* cited by examiner

(30) **Foreign Application Priority Data**  
Sep. 27, 2018 (JP) ..... 2018-020986  
(51) **LOC (13) Cl.** ..... **24-02**  
(52) **U.S. Cl.**  
USPC ..... **D24/113**  
(58) **Field of Classification Search**  
USPC ..... D24/112-114, 108, 133, 130, 127, 186;  
606/181, 185; 604/264, 272, 187, 181,  
604/184, 227  
CPC ..... A61M 5/178; A61M 3/00; A61M 5/20;  
A61M 5/31; A61M 5/3146; A61M  
5/3129; A61M 5/3148  
See application file for complete search history.

*Primary Examiner* — David G Muller  
(74) *Attorney, Agent, or Firm* — Brinks Gilson & Lione

(57) **CLAIM**

The ornamental design for a medicine injector, as shown and described.

**DESCRIPTION**

FIG. 1 is a front perspective view of a medicine injector of the present invention;  
FIG. 2 is a rear perspective view thereof;  
FIG. 3 is a front view thereof;  
FIG. 4 is a rear view thereof;  
FIG. 5 is a left side view thereof;  
FIG. 6 is a right side view thereof;  
FIG. 7 is a top view thereof; and,  
FIG. 8 is a bottom view thereof.  
The even broken lines show parts of the medicine injector that represent unclaimed subject matter and form no part of the claimed design.

(56) **References Cited**  
U.S. PATENT DOCUMENTS  
D479,598 S 9/2003 Tyce  
D479,746 S \* 9/2003 Tyce ..... D24/112  
D601,257 S \* 9/2009 Berlinger ..... D24/169  
D650,070 S 12/2011 Mori  
D695,394 S 12/2013 Takemoto et al.

**1 Claim, 4 Drawing Sheets**

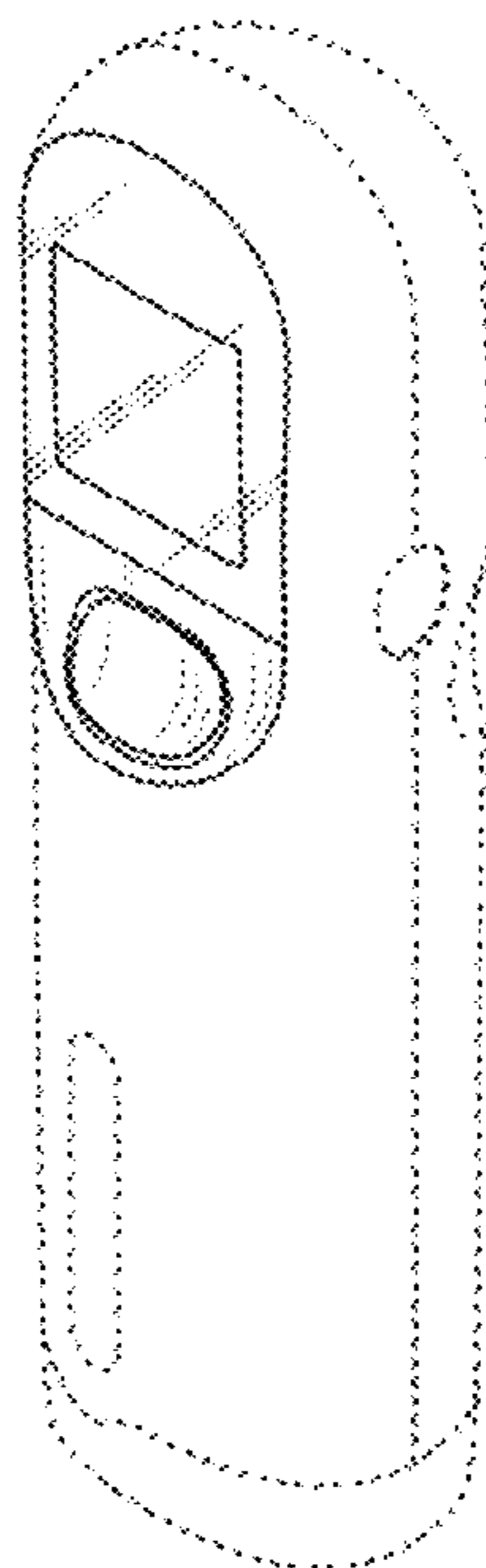


Fig. 1

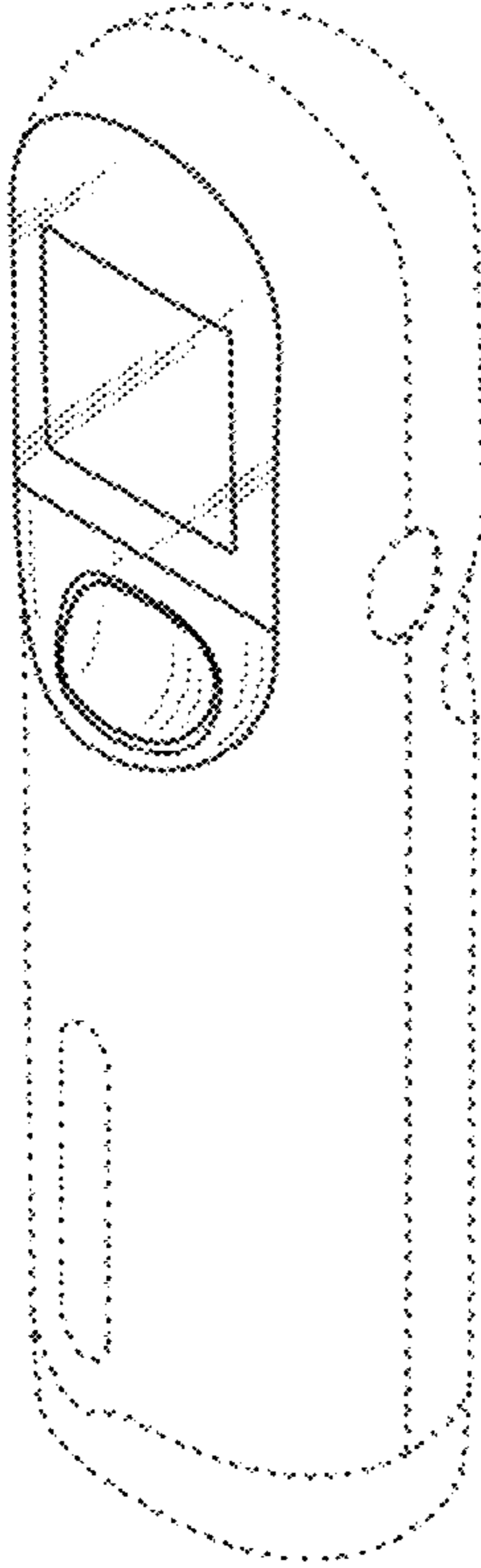


Fig. 2

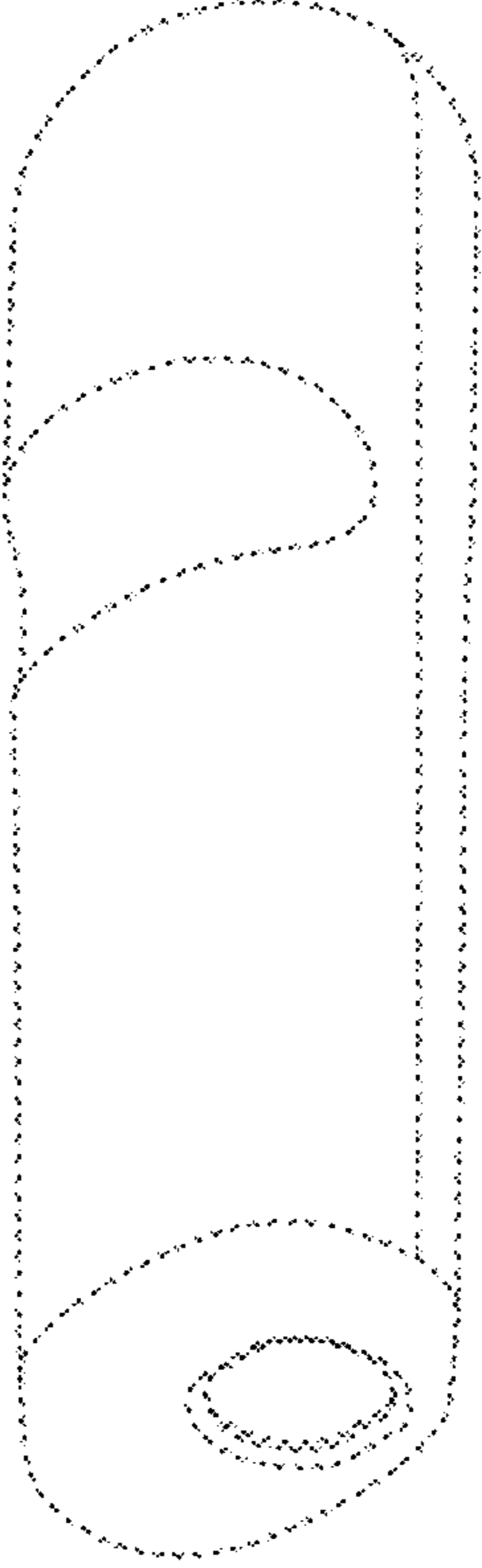


Fig. 3

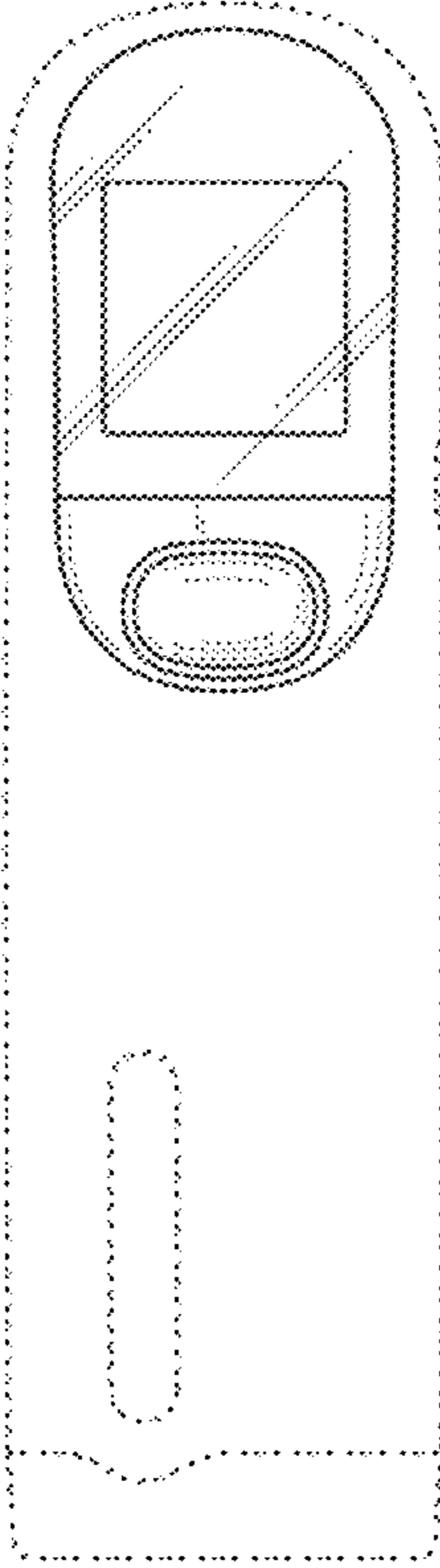


Fig. 4

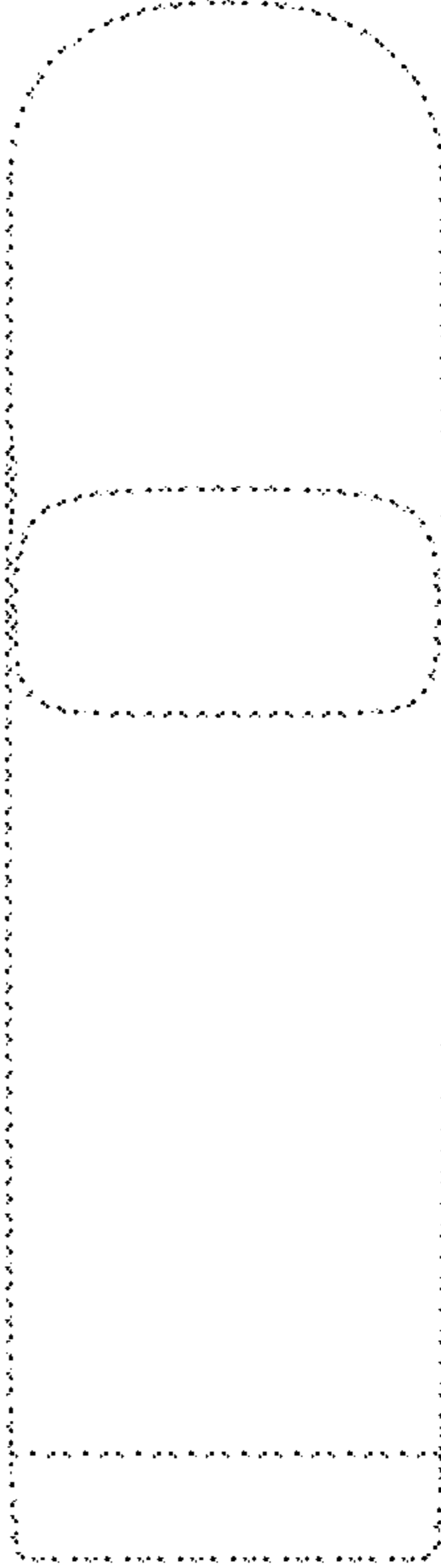


Fig. 5

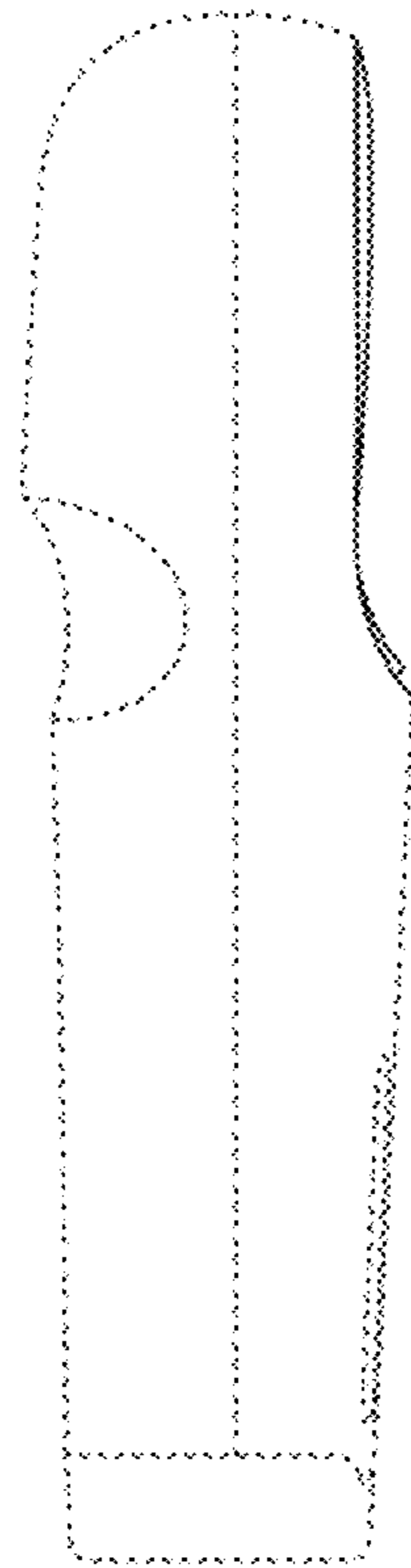


Fig. 6

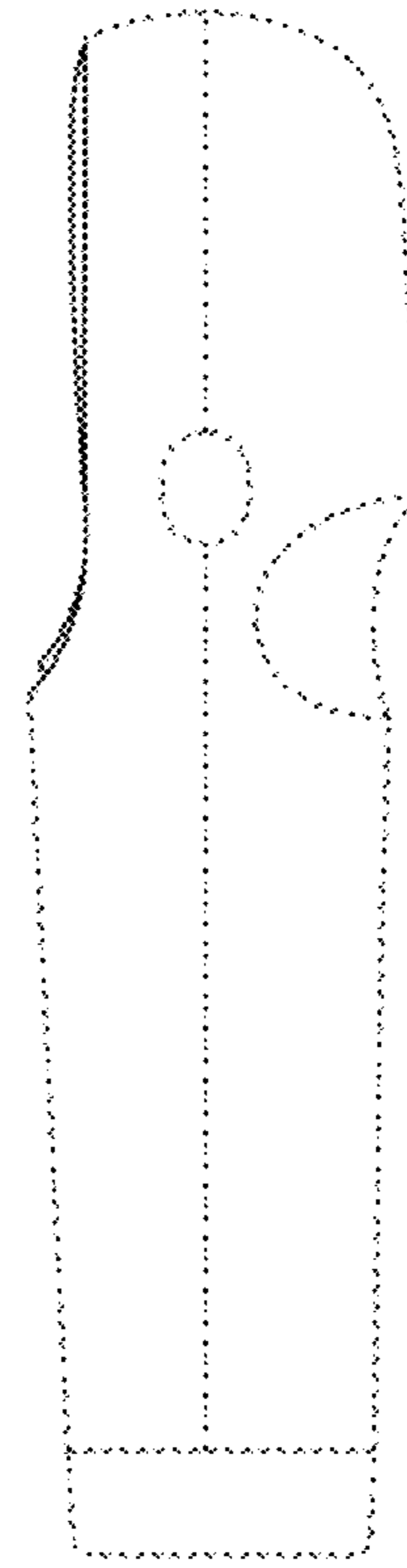


Fig. 7

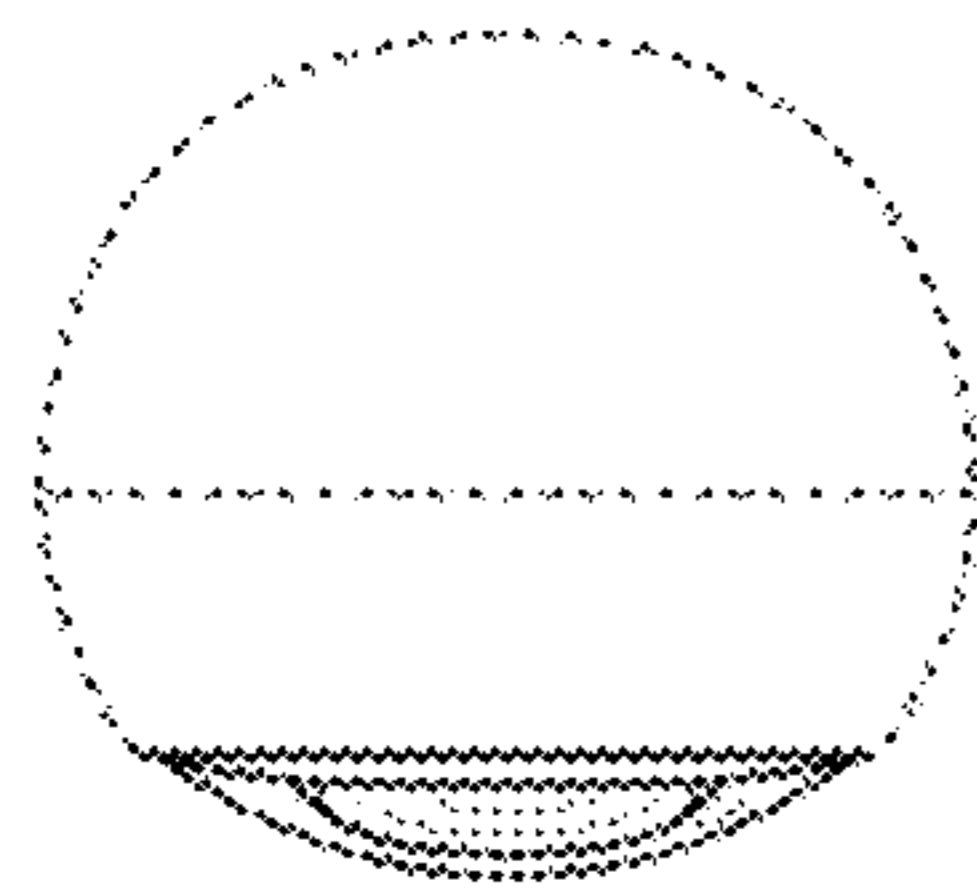


Fig. 8

