



US00D874393S

(12) **United States Design Patent** (10) **Patent No.:** **US D874,393 S**  
**Kamikawa et al.** (45) **Date of Patent:** **\*\* Feb. 4, 2020**

(54) **SOLAR CELL FOR ARTIFICIAL SATELLITE**

(71) Applicant: **Mitsubishi Electric Corporation,**  
Tokyo (JP)

(72) Inventors: **Yu Kamikawa,** Tokyo (JP); **Naoko Tomoda,** Tokyo (JP); **Mitsuru Okubo,** Tokyo (JP); **Yoshiyuki Kusano,** Tokyo (JP)

(73) Assignee: **Mitsubishi Electric Corporation,**  
Tokyo (JP)

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

(21) Appl. No.: **29/656,690**

(22) Filed: **Jul. 16, 2018**

(30) **Foreign Application Priority Data**

Mar. 30, 2018 (JP) ..... 2018-007003  
Mar. 30, 2018 (JP) ..... 2018-007004

(Continued)

(51) **LOC (12) Cl.** ..... **13-02**

(52) **U.S. Cl.**  
USPC ..... **D13/102**

(58) **Field of Classification Search**  
USPC ..... D13/101, 102, 110, 133, 182, 199

(Continued)

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*Primary Examiner* — Susan Bennett Hattan

*Assistant Examiner* — Suzanne E Tisdell

(74) *Attorney, Agent, or Firm* — Studebaker & Brackett  
PC

(57) **CLAIM**

The ornamental design for a solar cell for artificial satellite, as shown and described.

**DESCRIPTION**

FIG. 1 is a front view of a solar cell for artificial satellite showing the first embodiment of our new design;

FIG. 2 is a rear view thereof;

FIG. 3 is a top view thereof;

FIG. 4 is a bottom view thereof;

FIG. 5 is a left side view thereof;

FIG. 6 is a partially enlarged view taken along line 6-6 of FIG. 1;

FIG. 7 is an enlarged cross-sectional view taken along line 7-7 of FIG. 6;

FIG. 8 is a front view of a solar cell for artificial satellite showing the second embodiment of our new design;

FIG. 9 is a rear view thereof;

FIG. 10 is a top view thereof;

FIG. 11 is a bottom view thereof;

FIG. 12 is a left side view thereof;

FIG. 13 is a partially enlarged view taken along line 13-13 of FIG. 8;

FIG. 14 is an enlarged cross-sectional view taken along line 14-14 of FIG. 13;

FIG. 15 is a front view of a solar cell for artificial satellite showing the third embodiment of our new design;

FIG. 16 is a rear view thereof;

FIG. 17 is a top view thereof;

FIG. 18 is a bottom view thereof;

FIG. 19 is a left side view thereof;

FIG. 20 is a partially enlarged view taken along line 20-20 of FIG. 15;

FIG. 21 is an enlarged cross-sectional view taken along line 21-21 of FIG. 20;

FIG. 22 is a front view of a solar cell for artificial satellite showing the fourth embodiment of our new design;

FIG. 23 is a rear view thereof;

FIG. 24 is a top view thereof;

FIG. 25 is a bottom view thereof;

FIG. 26 is a left side view thereof;

FIG. 27 is a partially enlarged view taken along line 27-27 of FIG. 22;

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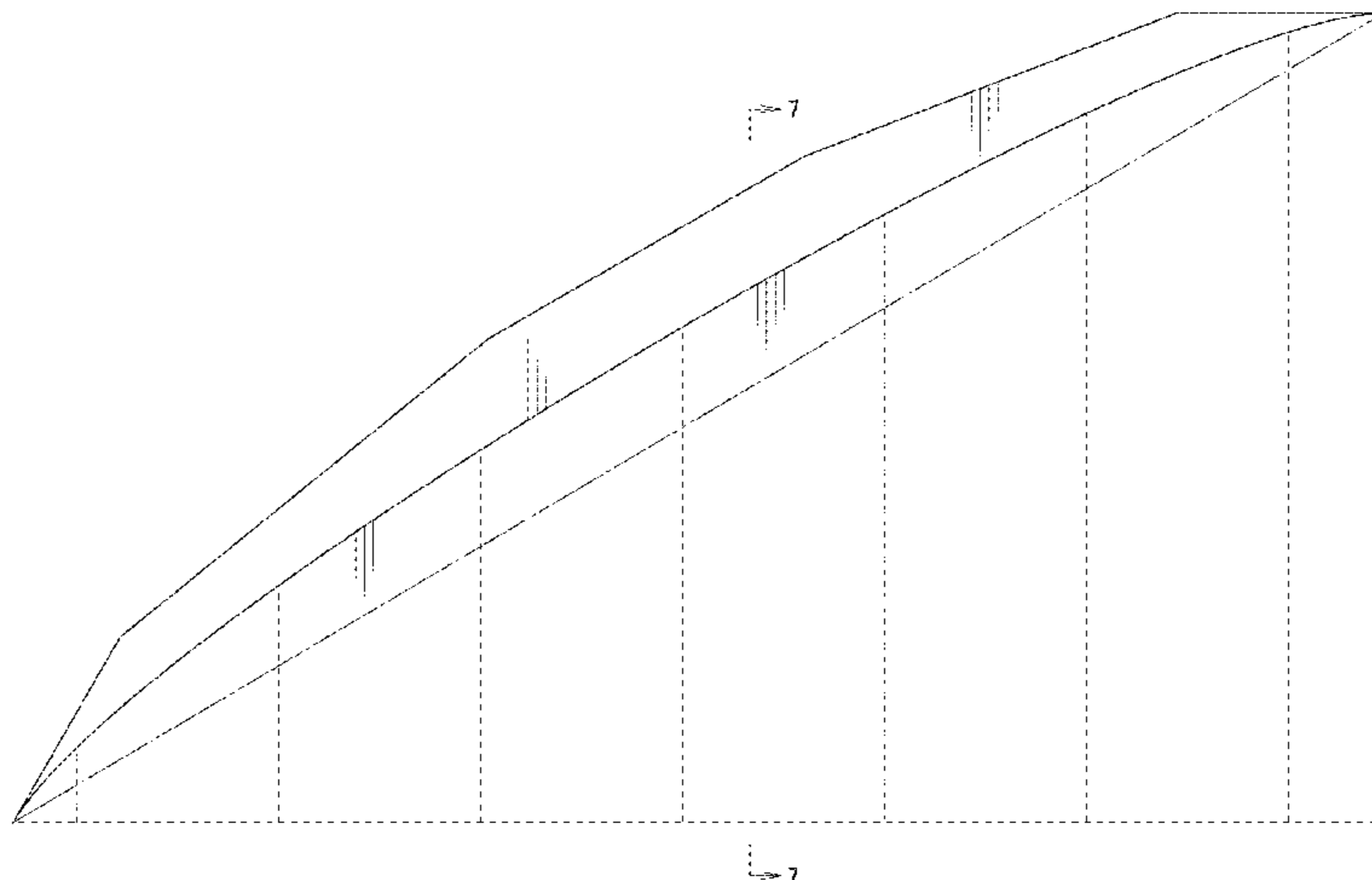


FIG. 28 is an enlarged cross-sectional view taken along line 28-28 of FIG. 27;  
 FIG. 29 is a front view of a solar cell for artificial satellite showing the fifth embodiment of our new design;  
 FIG. 30 is a rear view thereof;  
 FIG. 31 is a top view thereof;  
 FIG. 32 is a bottom view thereof;  
 FIG. 33 is a left side view thereof;  
 FIG. 34 is a partially enlarged view taken along line 34-34 of FIG. 29; and,  
 FIG. 35 is an enlarged cross-sectional view taken along line 35-35 of FIG. 34.

Portions of the solar cell for an artificial satellite disclosed in equally-spaced broken lines form no part of the claimed design. Dot-dash pattern lines represent unclaimed boundaries between the claim and the unclaimed portions. Right-side views are omitted because they are mirror images of the left side views.

**1 Claim, 30 Drawing Sheets**

(30) **Foreign Application Priority Data**

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 Mar. 30, 2018 (JP) ..... 2018-007006

Mar. 30, 2018 (JP) ..... 2018-007007

(58) **Field of Classification Search**

CPC ..... Y02E 10/40; Y02E 10/44; Y02E 10/52;  
 Y02E 10/542; Y02E 10/544; E04H 4/08;  
 H01L 31/00; H01L 31/042; H01L 31/045;  
 H01L 31/048; H01L 31/052; H01L  
 31/184; H01L 31/0232; H01L 31/0508;  
 H01L 31/0512; H01L 31/0543

See application file for complete search history.

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Fig. 1

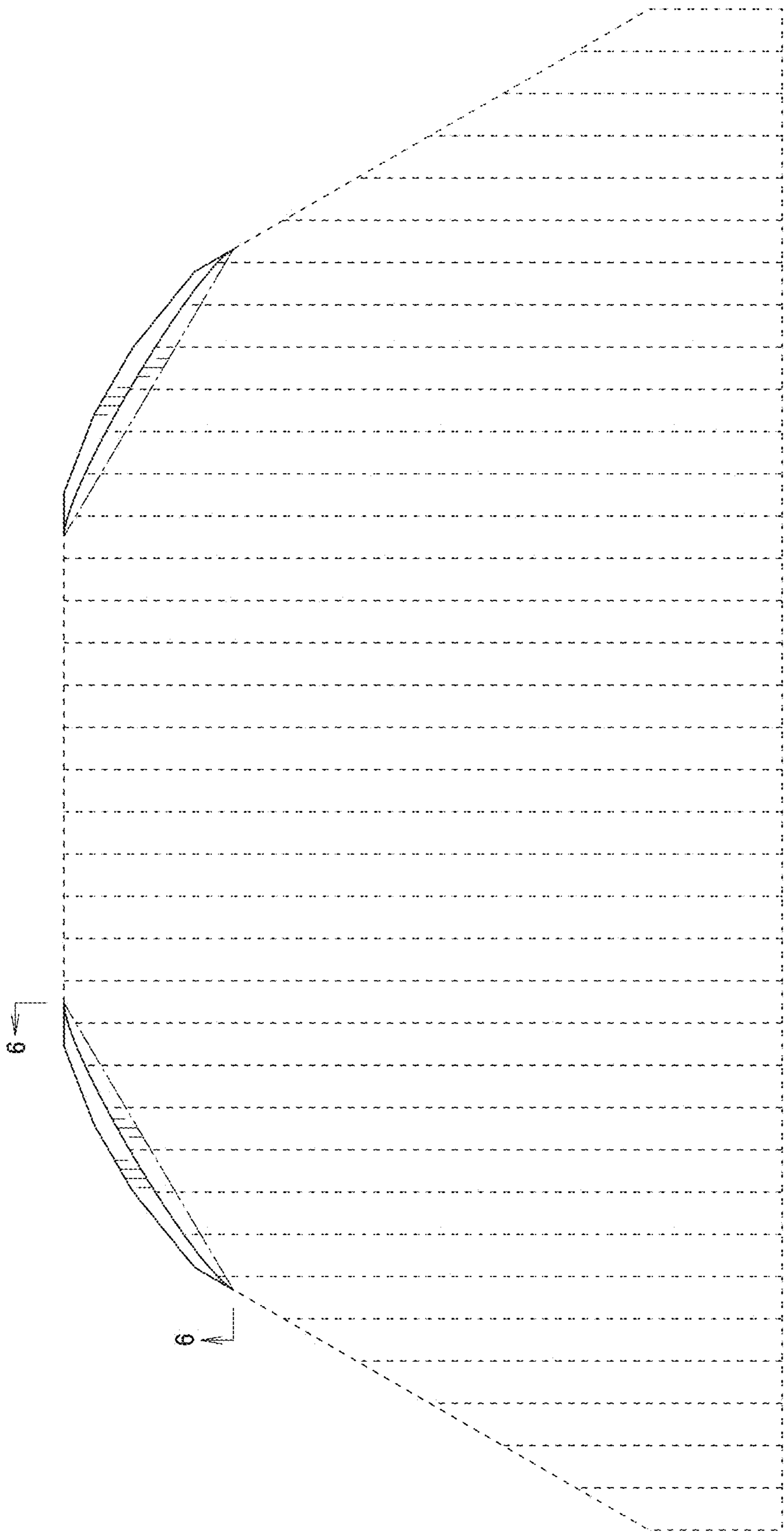


Fig. 2

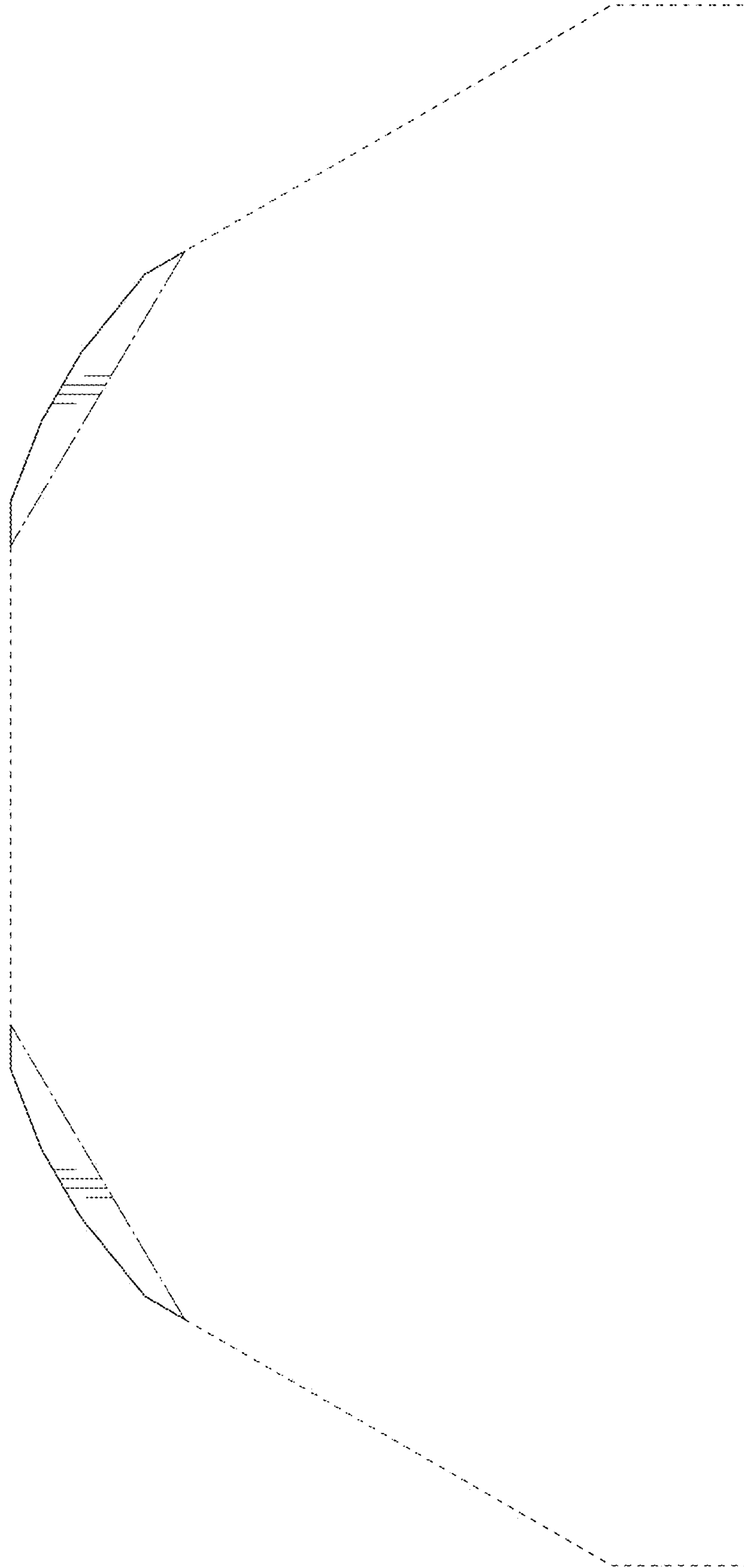


Fig. 3

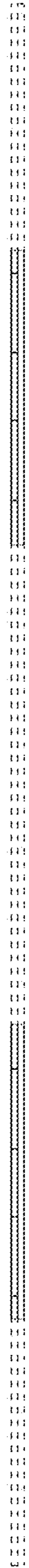


Fig. 4

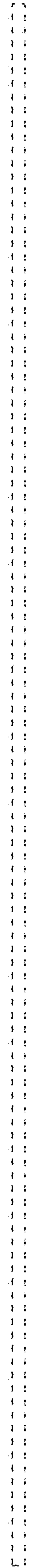
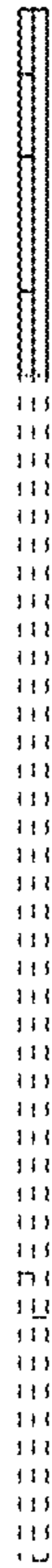


Fig. 5



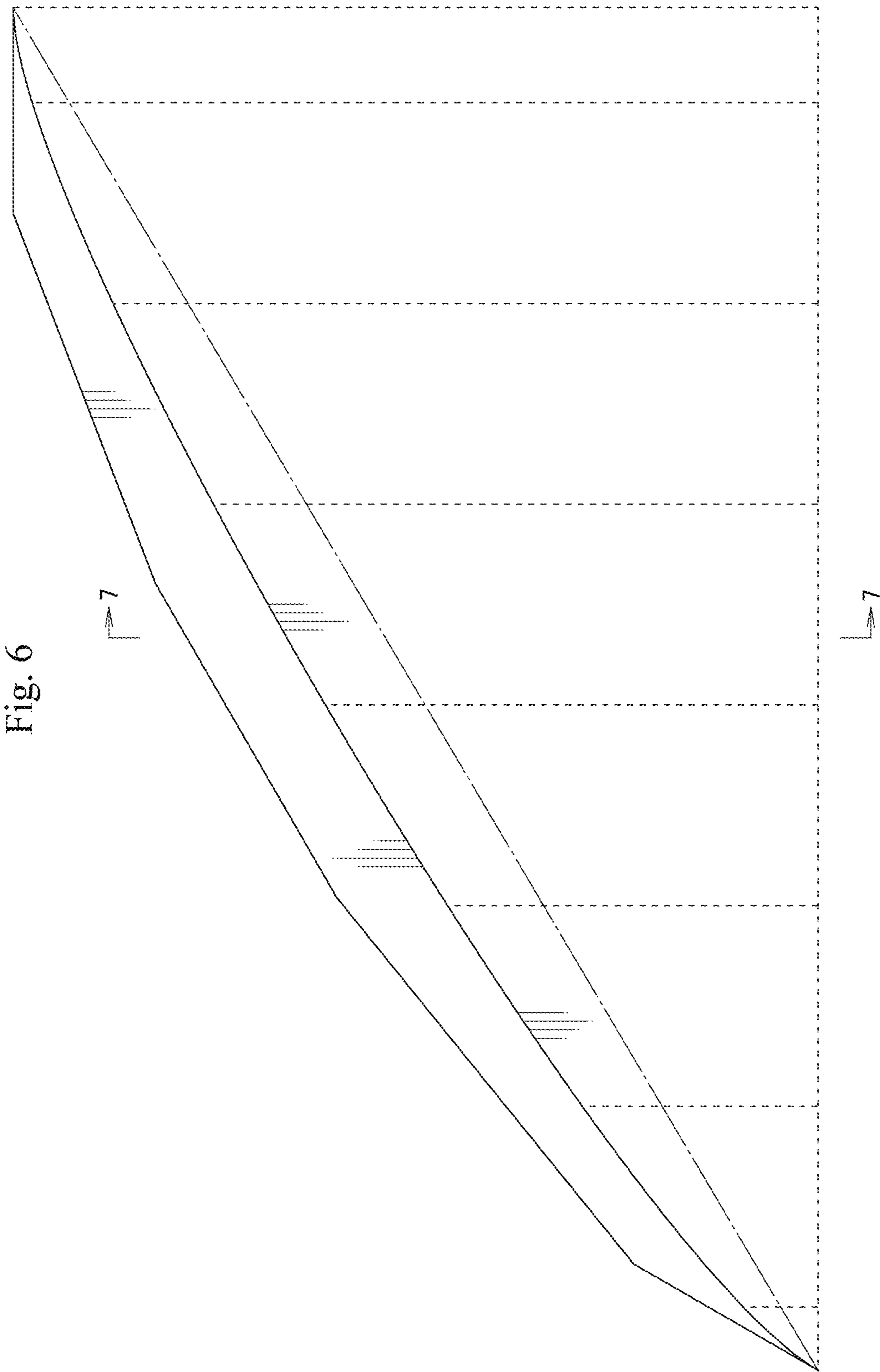


Fig. 6

Fig. 7

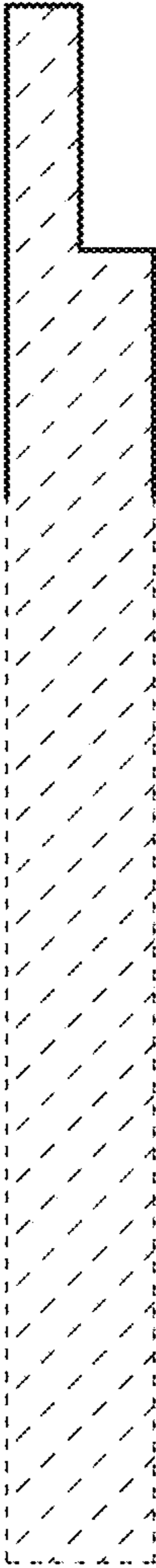




Fig. 8

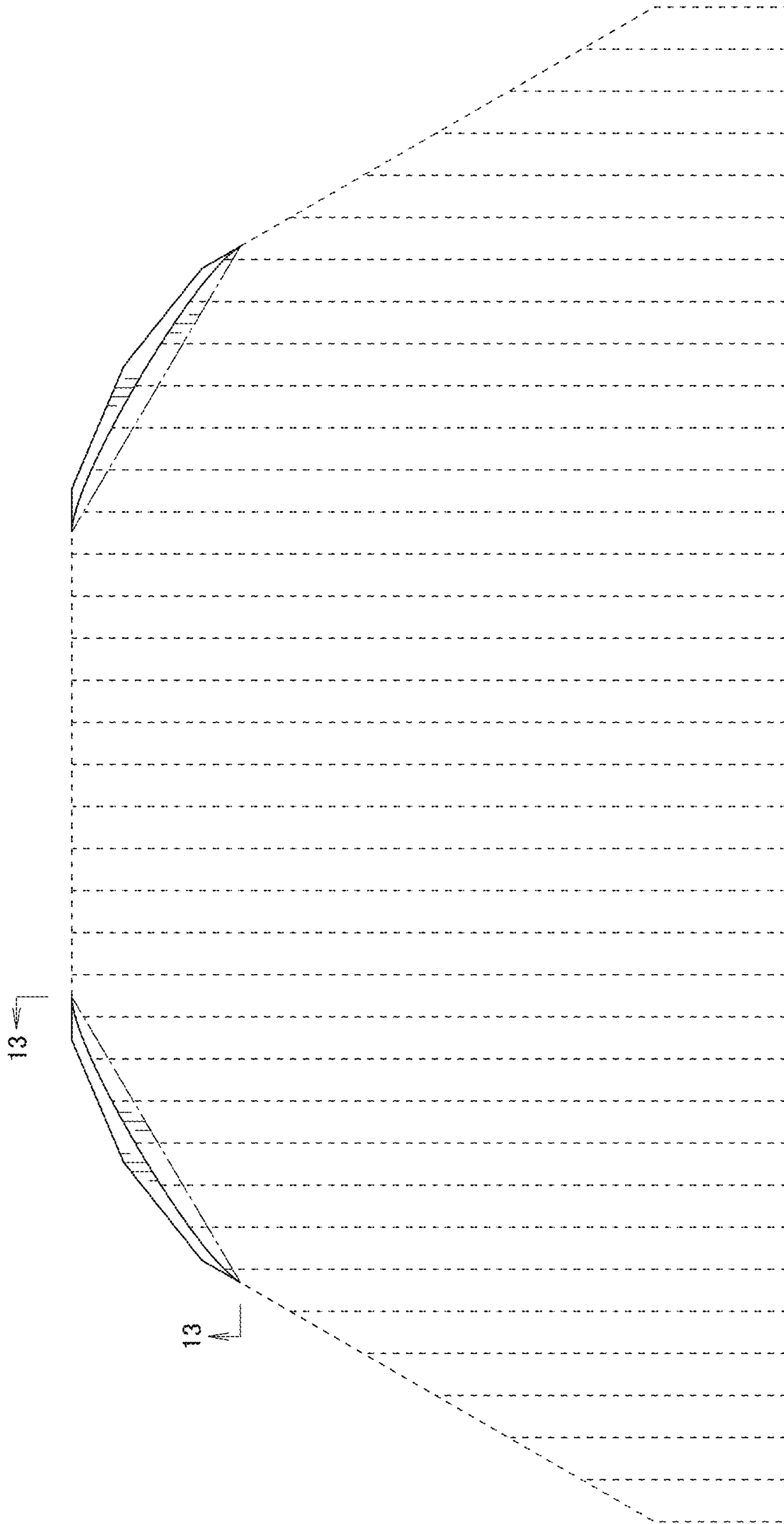


Fig. 9

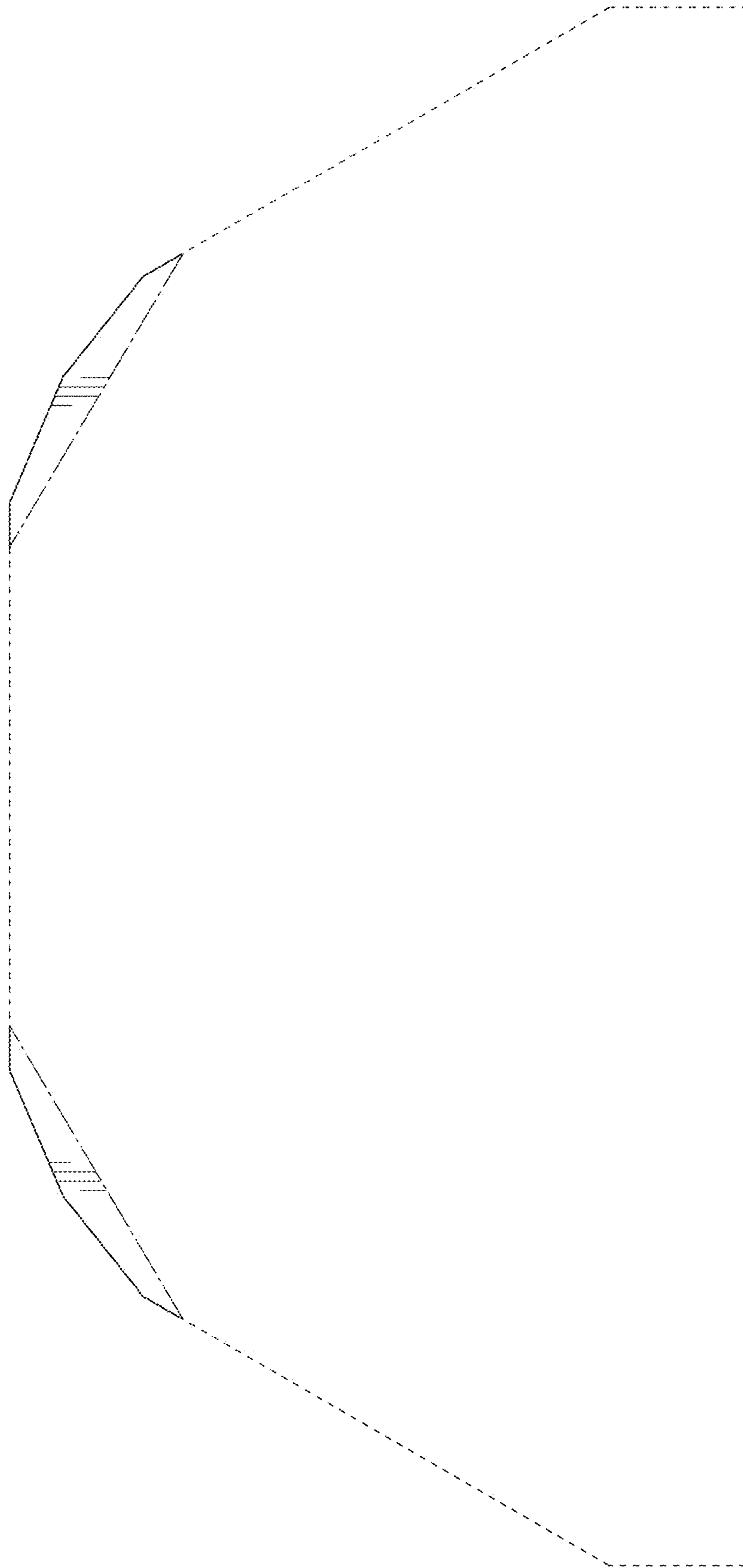


Fig. 10

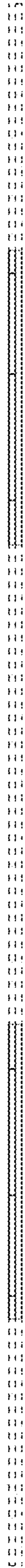


Fig. 11

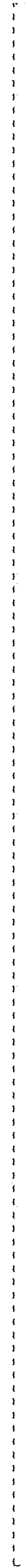
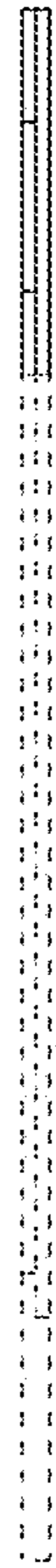


Fig. 12



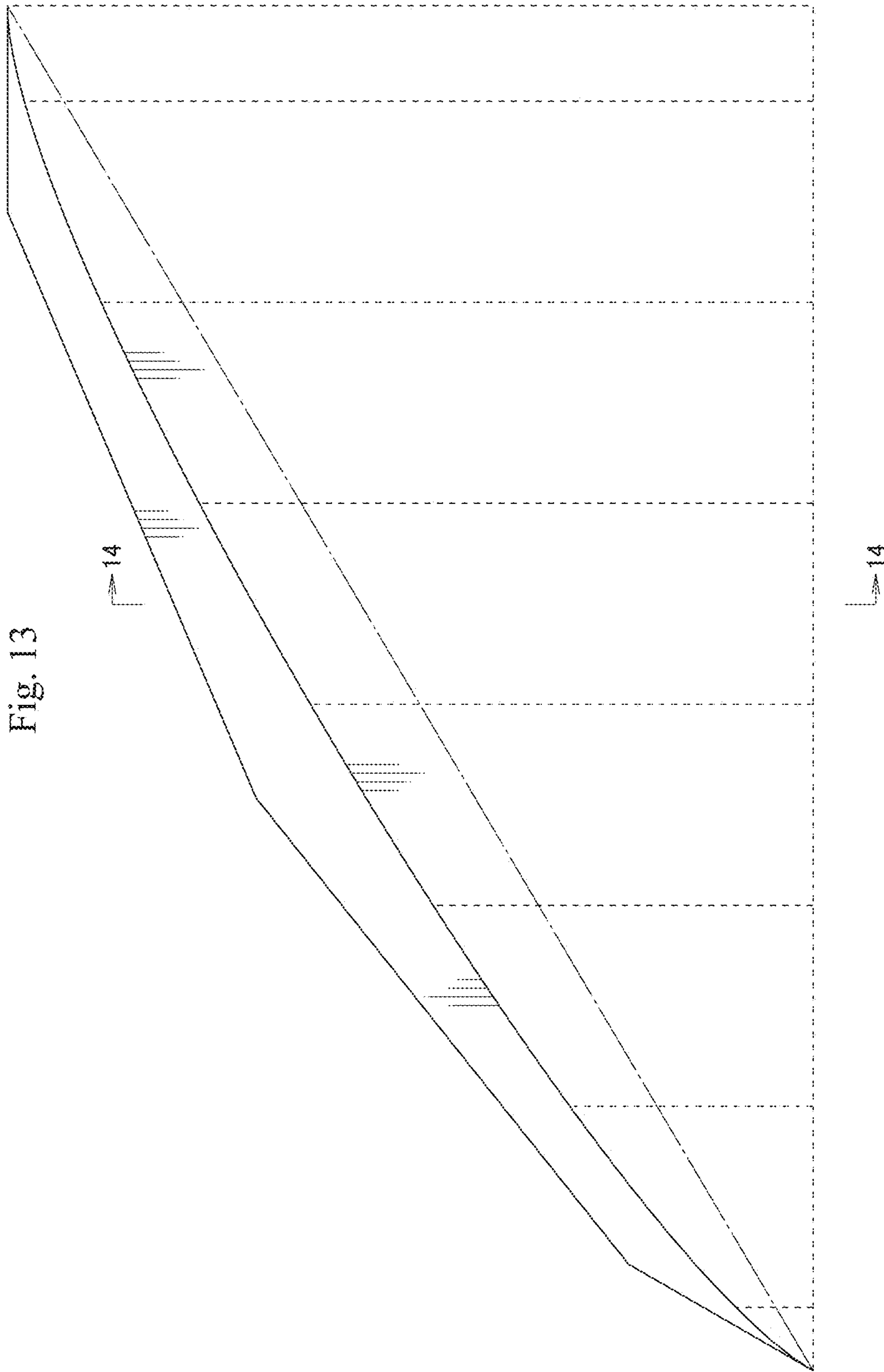


Fig. 13

Fig. 14

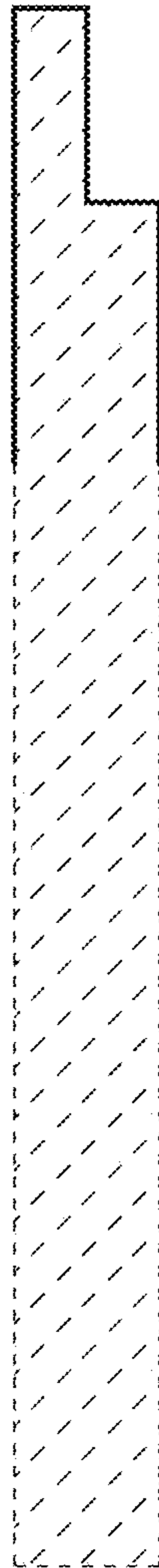


Fig. 15

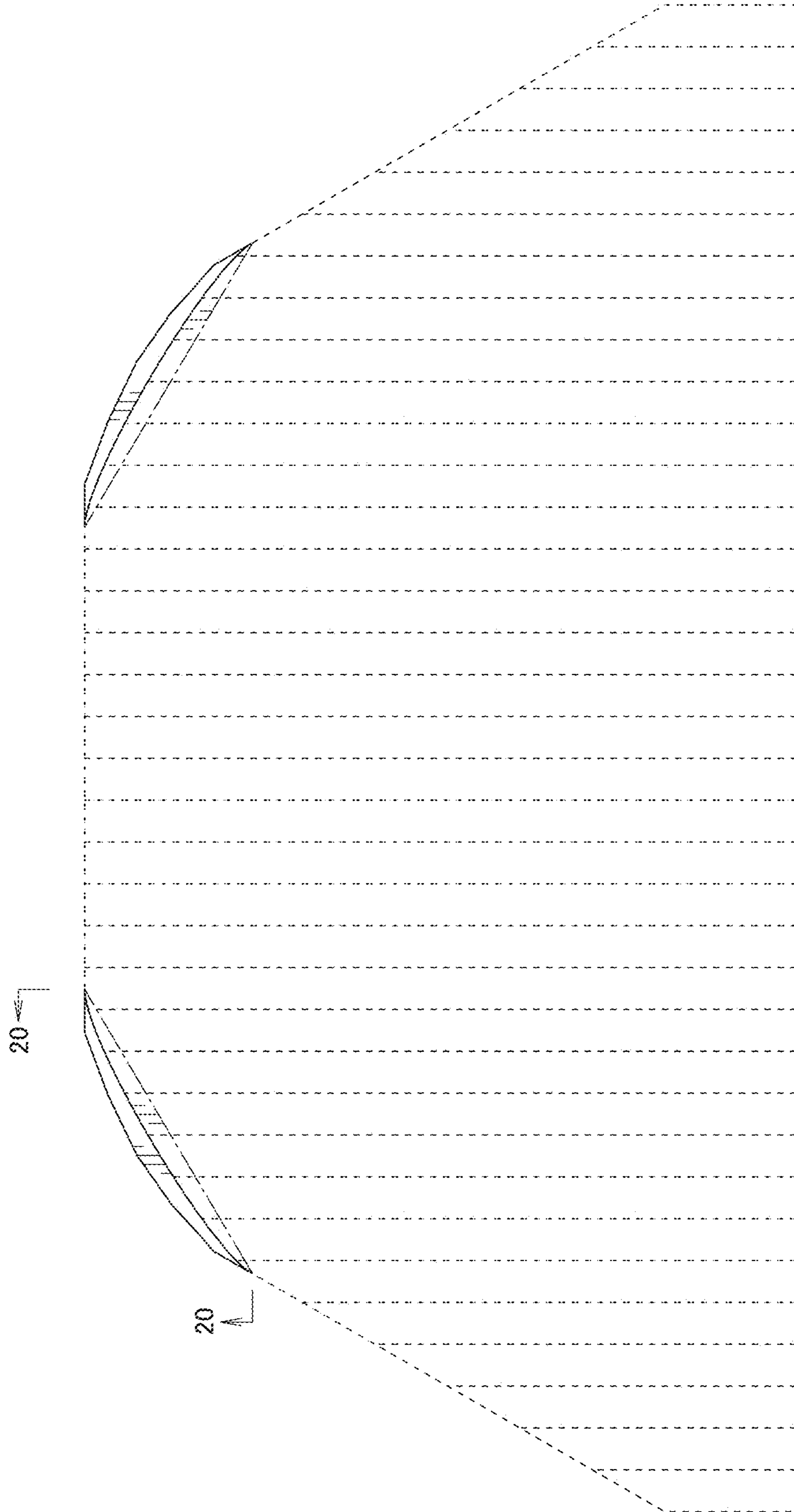


Fig. 16

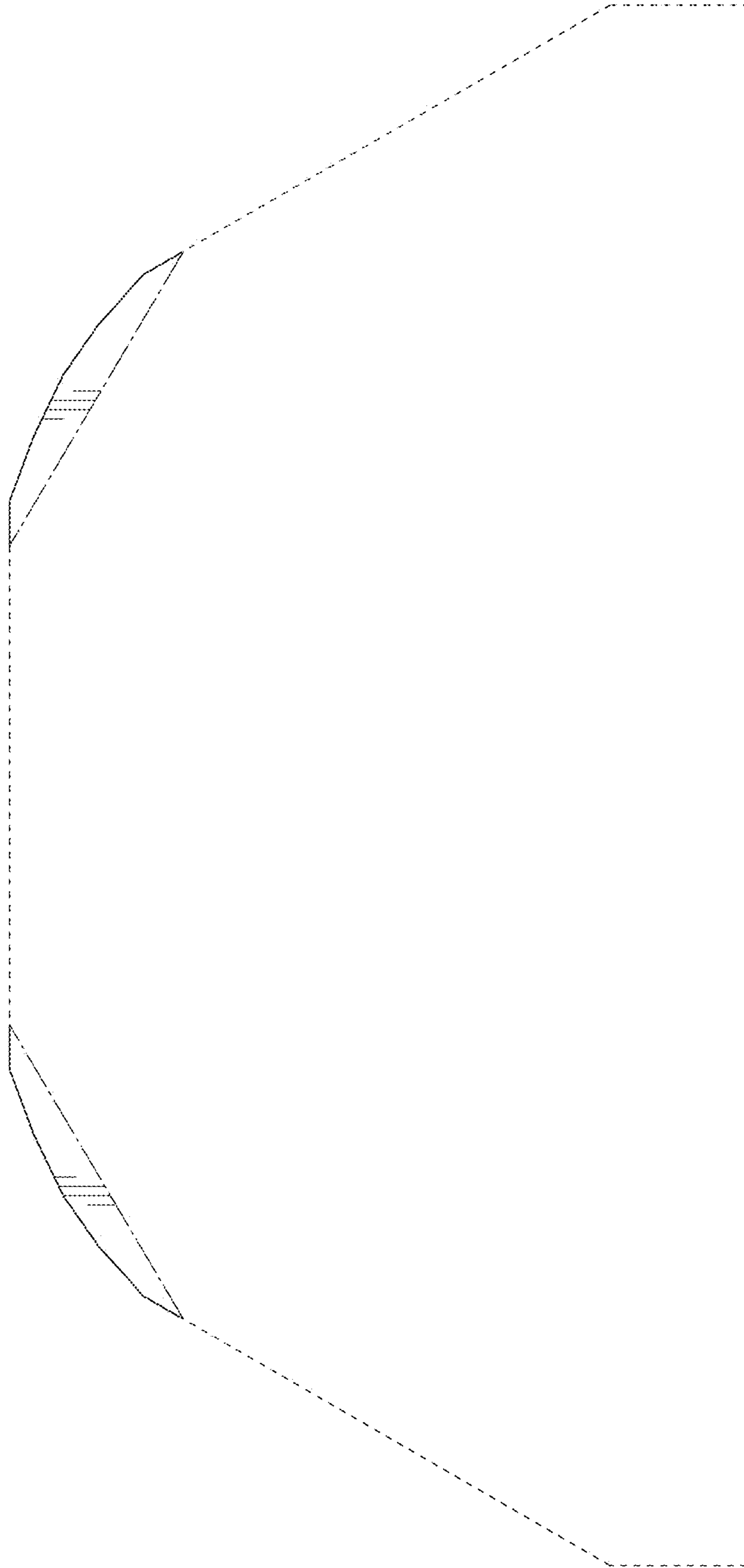




Fig. 17

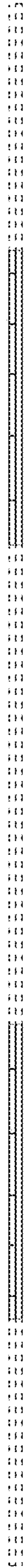


Fig. 18

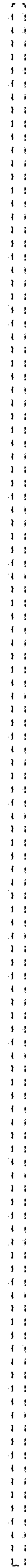
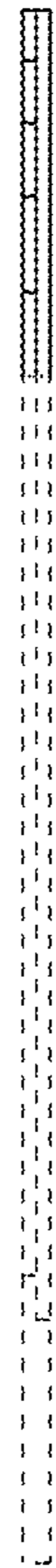


Fig. 19



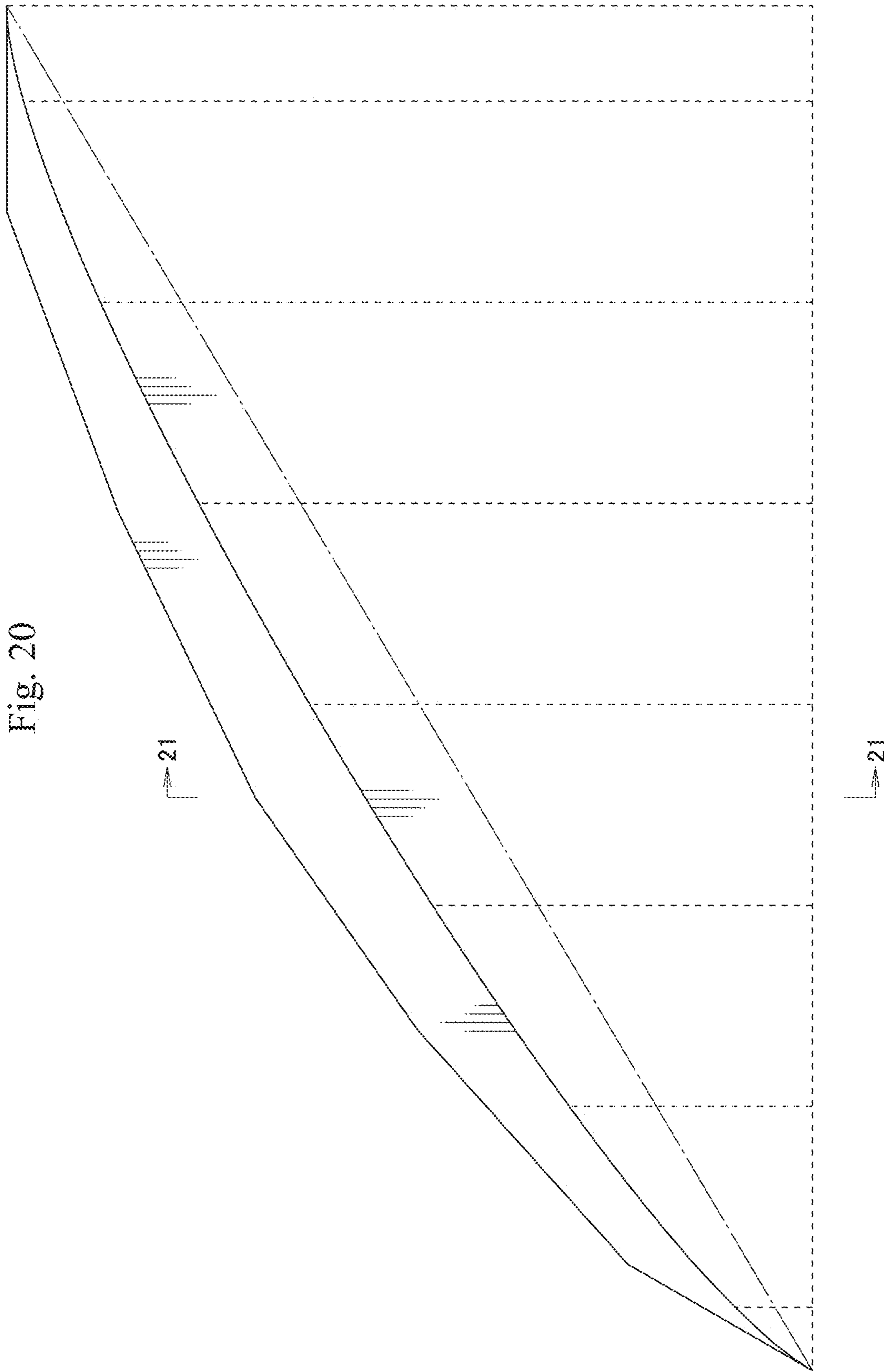


Fig. 21

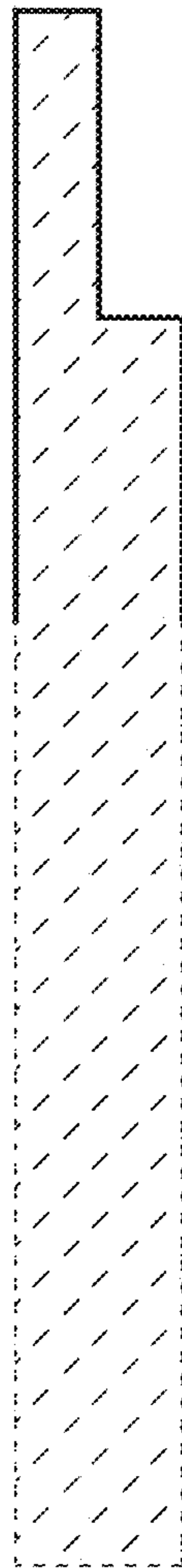


Fig. 22

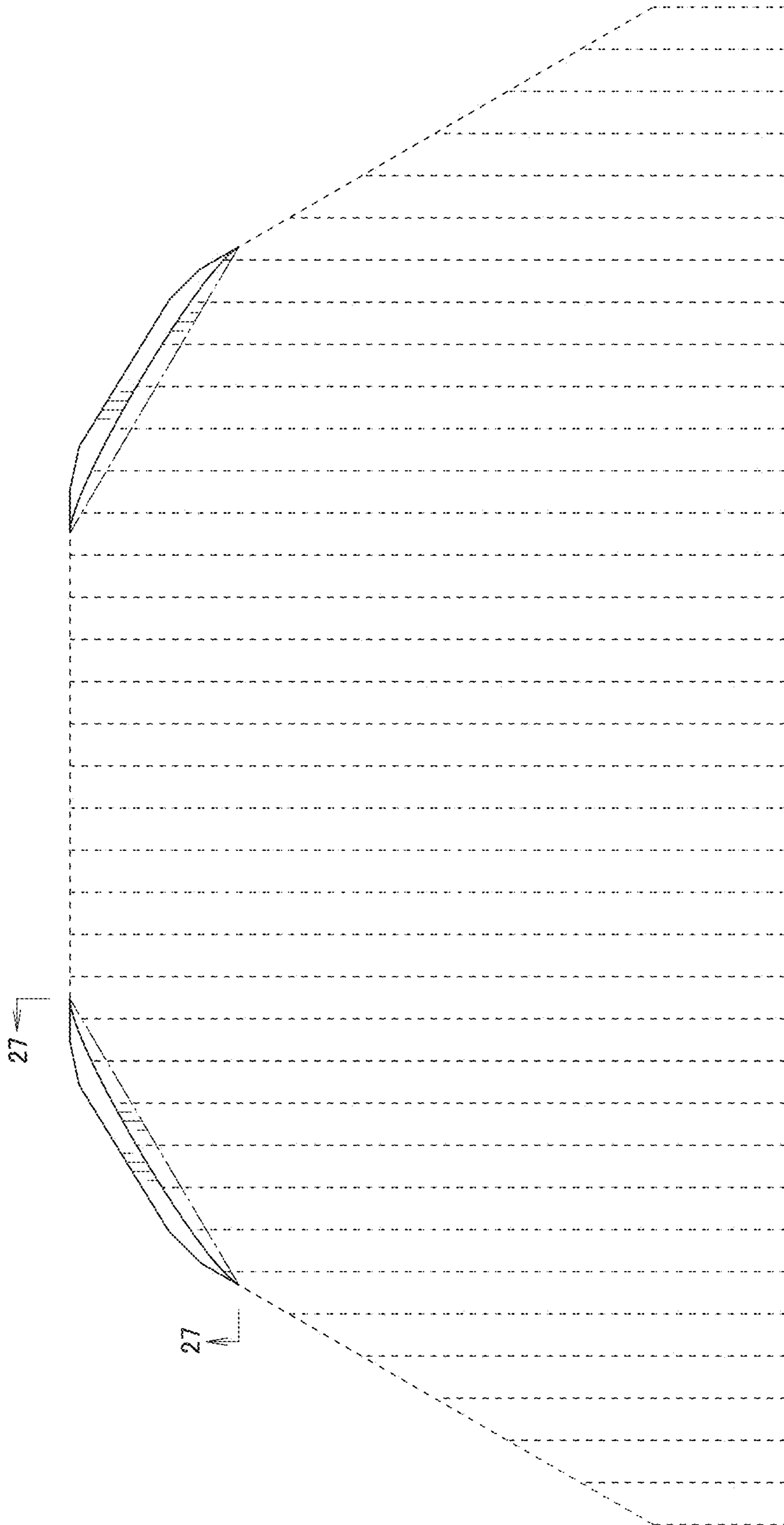


Fig. 23

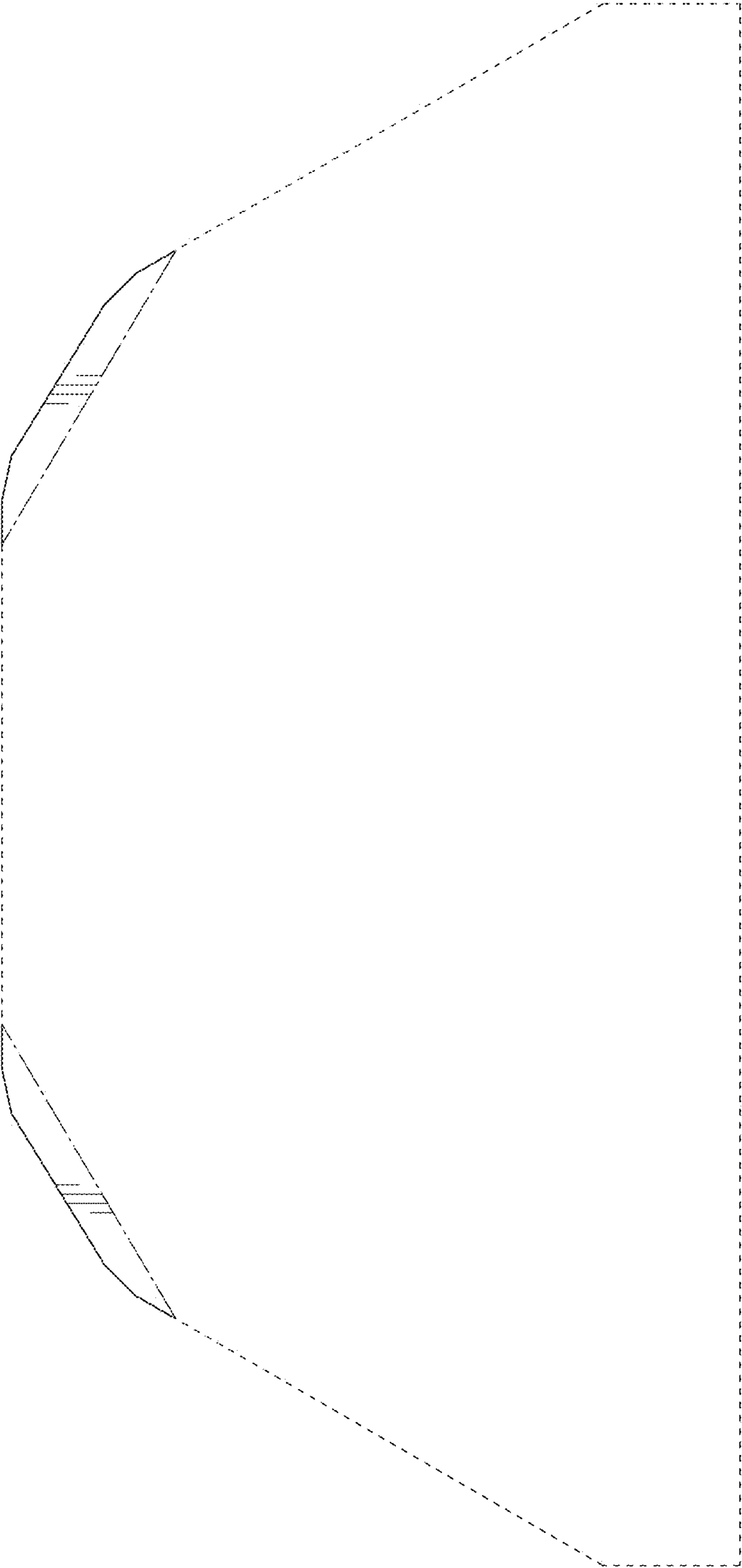


Fig. 24

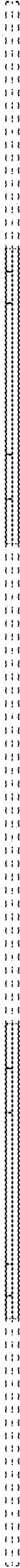


Fig. 25

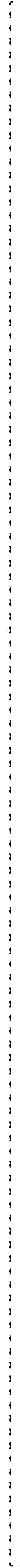
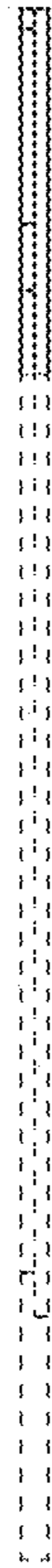


Fig. 26





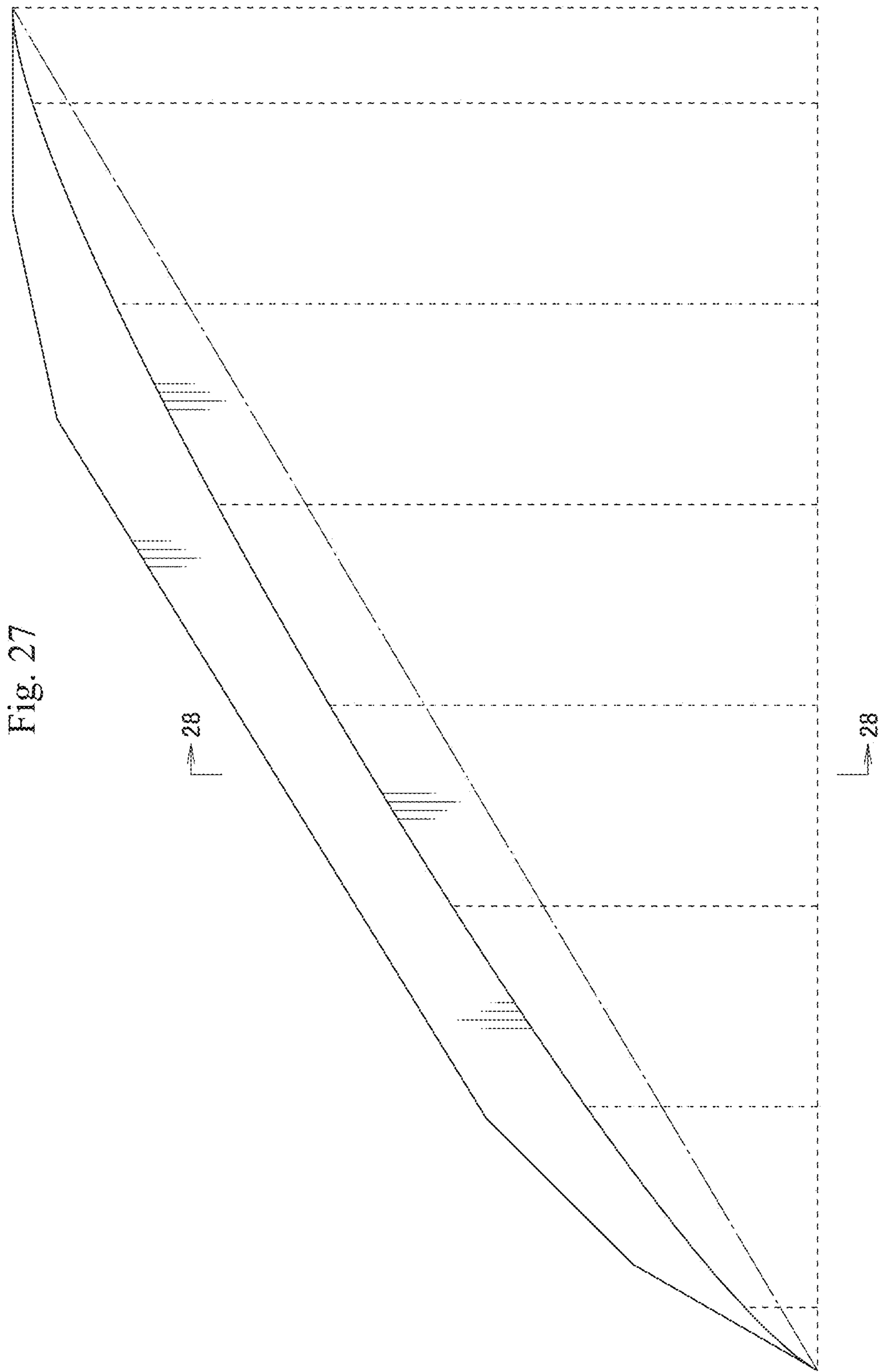


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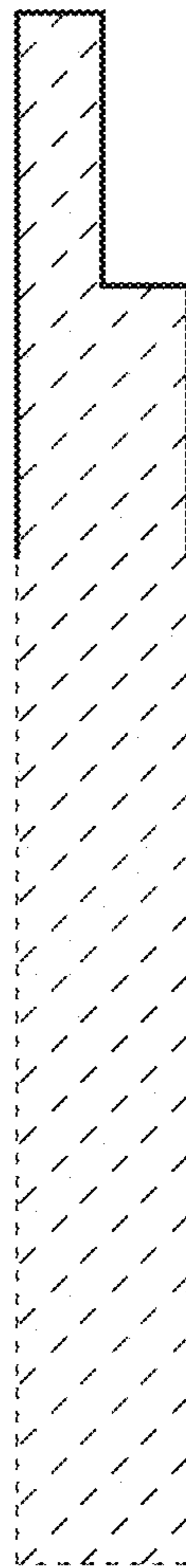


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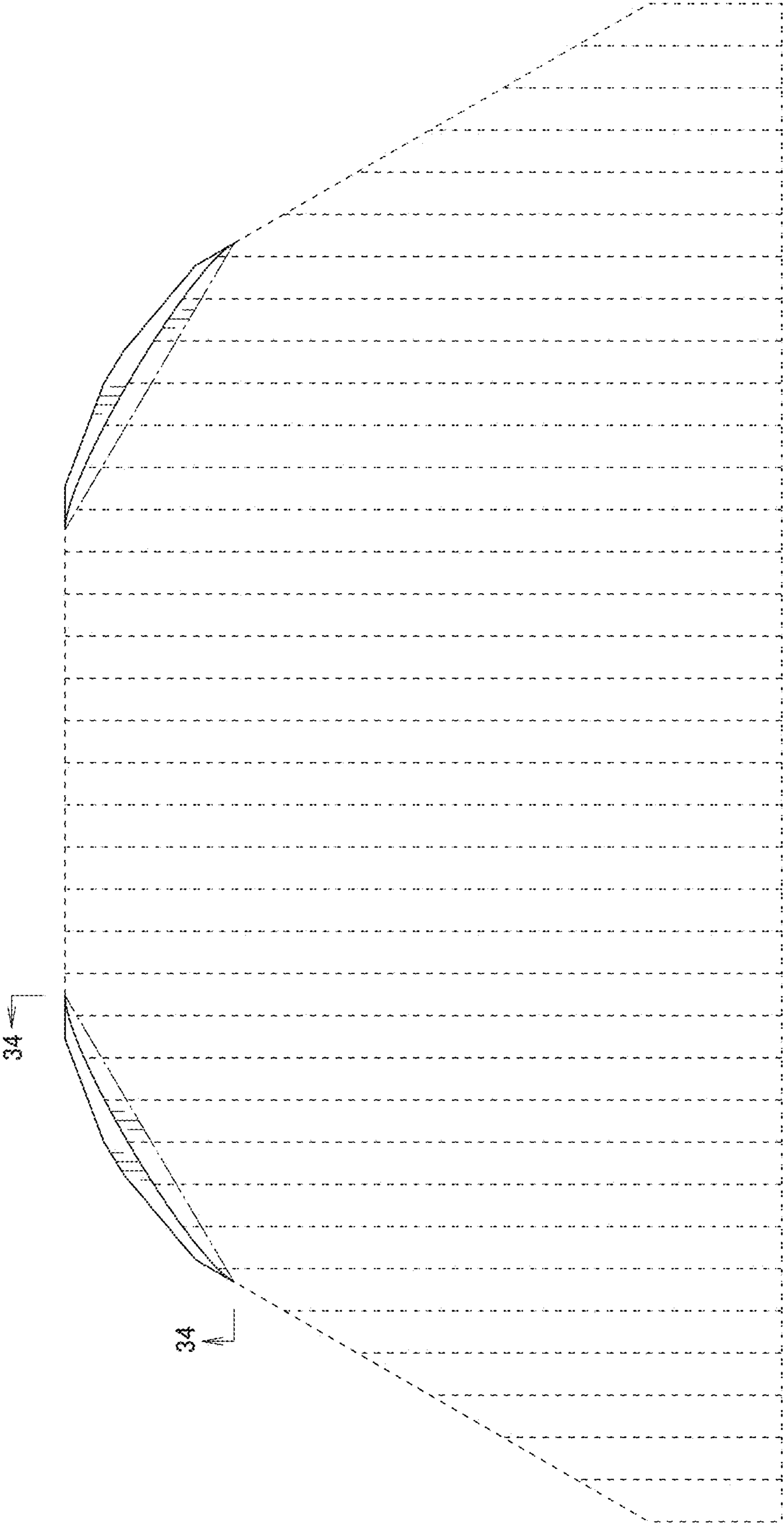


Fig. 30

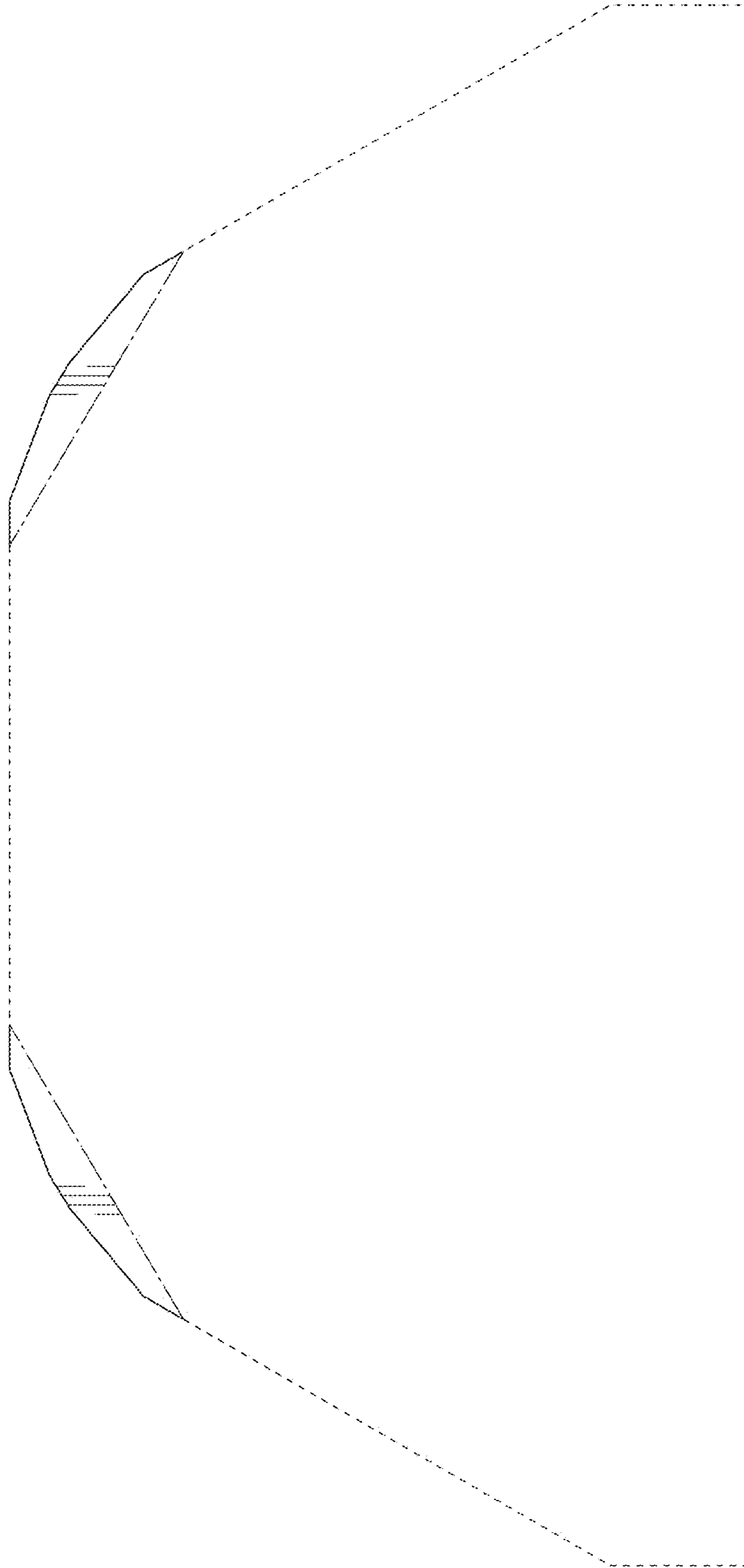


Fig. 31

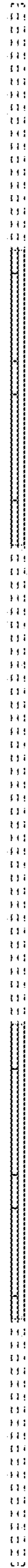


Fig. 32

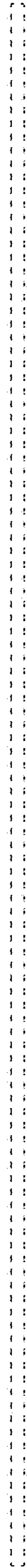
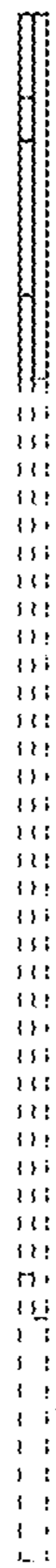


Fig. 33



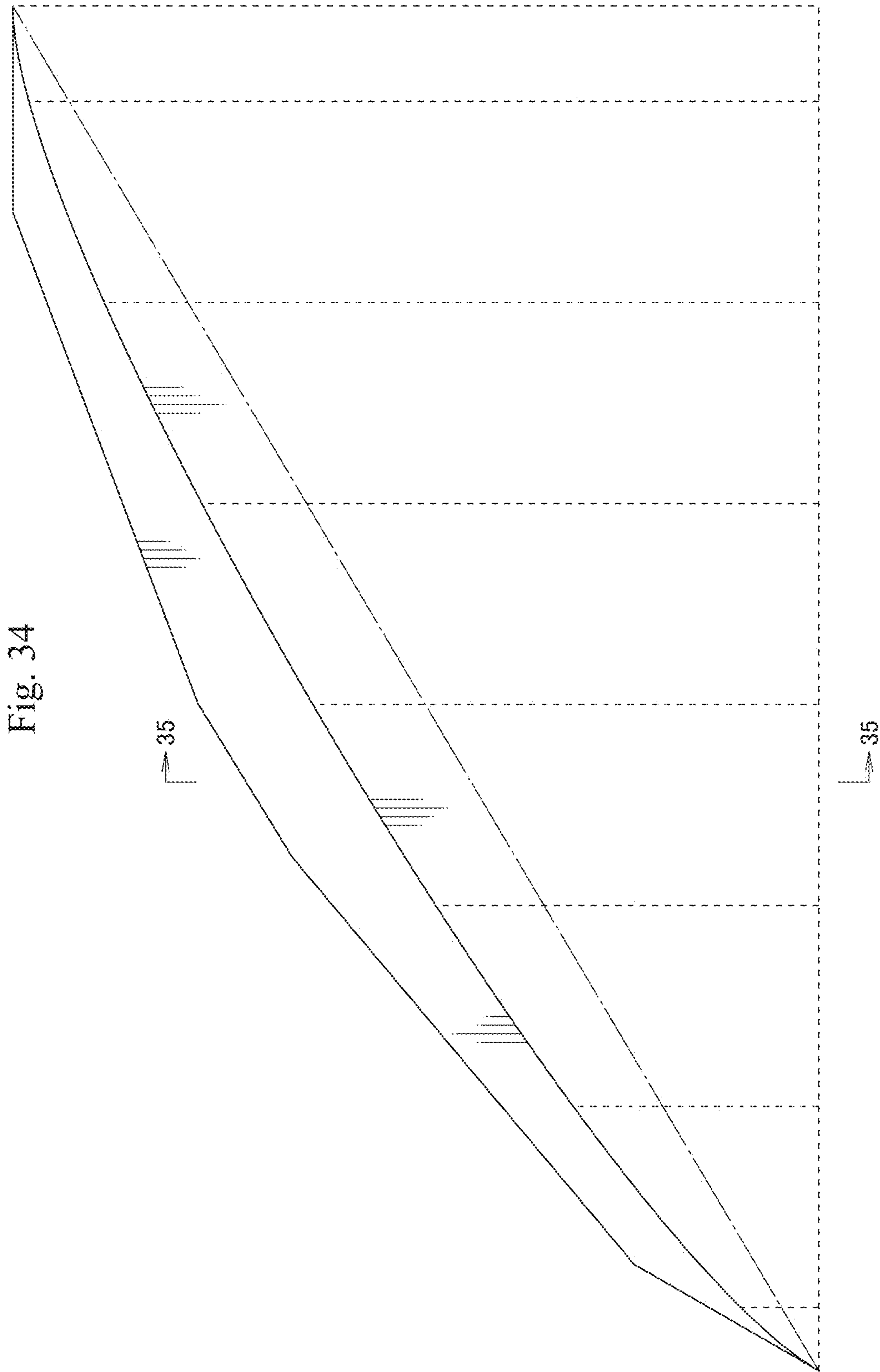


Fig. 34

Fig. 35

