



US00D953986S

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

(10) **Patent No.:** **US D953,986 S**
(45) **Date of Patent:** **** Jun. 7, 2022**

- (54) **RECTIFIER**
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- (73) Assignee: **Neturen Co., Ltd.**, Tokyo (JP)
- (**) Term: **15 Years**
- (21) Appl. No.: **29/770,184**
- (22) Filed: **Feb. 10, 2021**
- (30) **Foreign Application Priority Data**
Aug. 11, 2020 (JP) 2020-016801 D
- (51) **LOC (13) Cl.** **13-02**
- (52) **U.S. Cl.**
USPC **D13/110**
- (58) **Field of Classification Search**
USPC D13/101, 110, 112, 113, 114, 118, 122,
D13/182, 184, 199
CPC H02K 11/04; H02K 11/046; H02K 11/048;
H02K 11/049; H02K 19/365; H05B 6/40;
H05B 6/44; H05B 6/102; H05K 7/20;
B33Y 10/00
See application file for complete search history.

- 6,152,746 A * 11/2000 Brown H01R 9/0518
439/99
- 7,119,467 B2 * 10/2006 Dooley H02K 1/165
310/100
- 8,724,324 B2 * 5/2014 Ford H02K 11/042
361/704
- 8,890,379 B2 * 11/2014 Krause H02K 11/042
310/68 D
- D729,730 S * 5/2015 Gillespie-Brown D13/110
- 9,154,046 B2 * 10/2015 Krause H02M 7/003
- 9,398,643 B2 * 7/2016 Pateau H05B 6/44
- D840,365 S * 2/2019 Ichino D13/182

* cited by examiner

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(57) **CLAIM**

The ornamental design for a rectifier, as shown and described.

DESCRIPTION

FIG. 1 is a top perspective view of a rectifier 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, the bottom view being a mirror image;
FIG. 5 is a right side view thereof, the left side view being a mirror image; and,
FIG. 6 is a cross-sectional view thereof taken along a section line A-A of FIG. 2.
The broken lines shown represent the portions of the rectifier that form no part of the claimed design.

1 Claim, 3 Drawing Sheets

- (56) **References Cited**
U.S. PATENT DOCUMENTS
D404,369 S * 1/1999 Kawachi D13/182
6,116,981 A * 9/2000 Zheng A63H 33/065
446/106

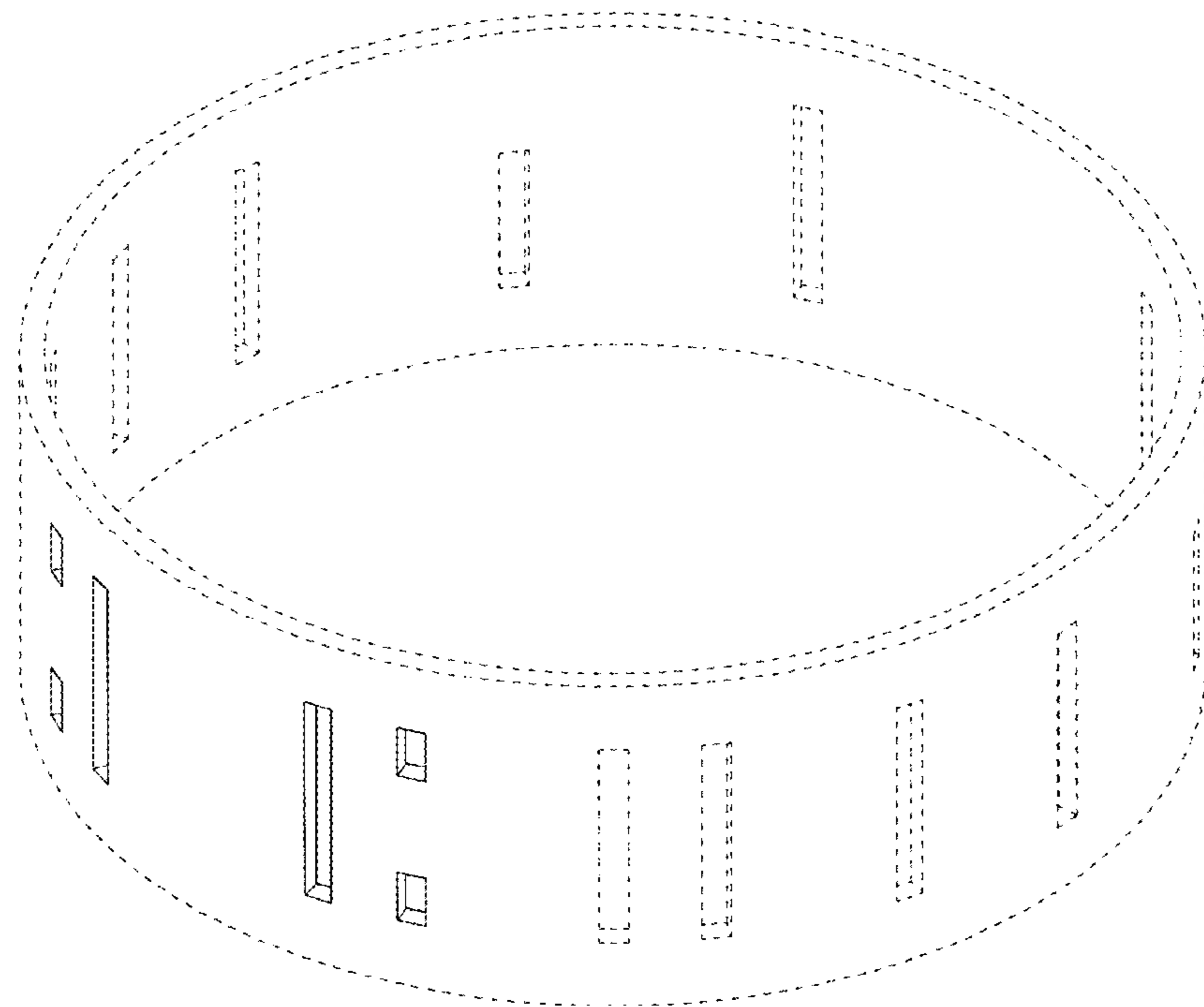


Fig. 1

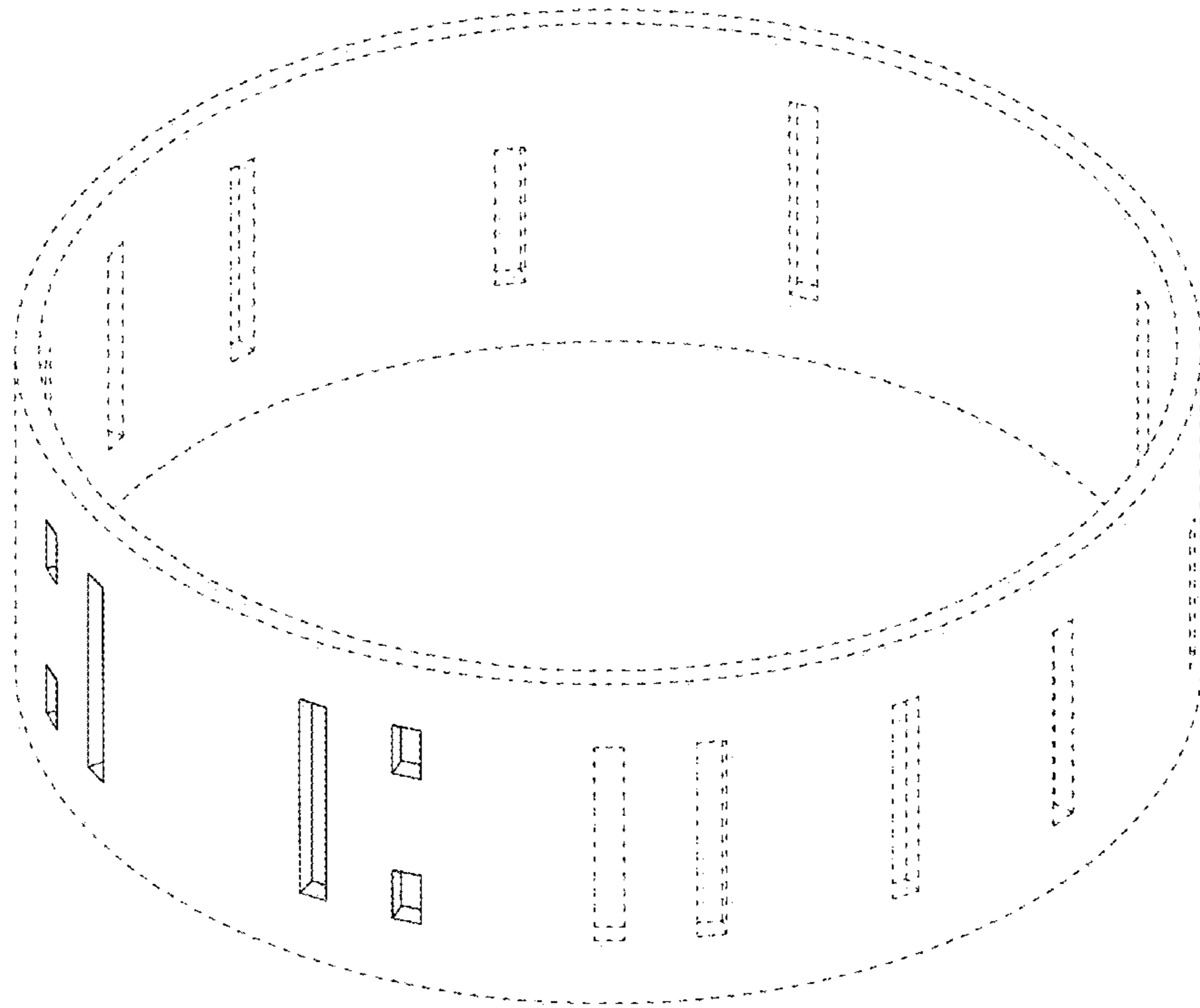


Fig. 2

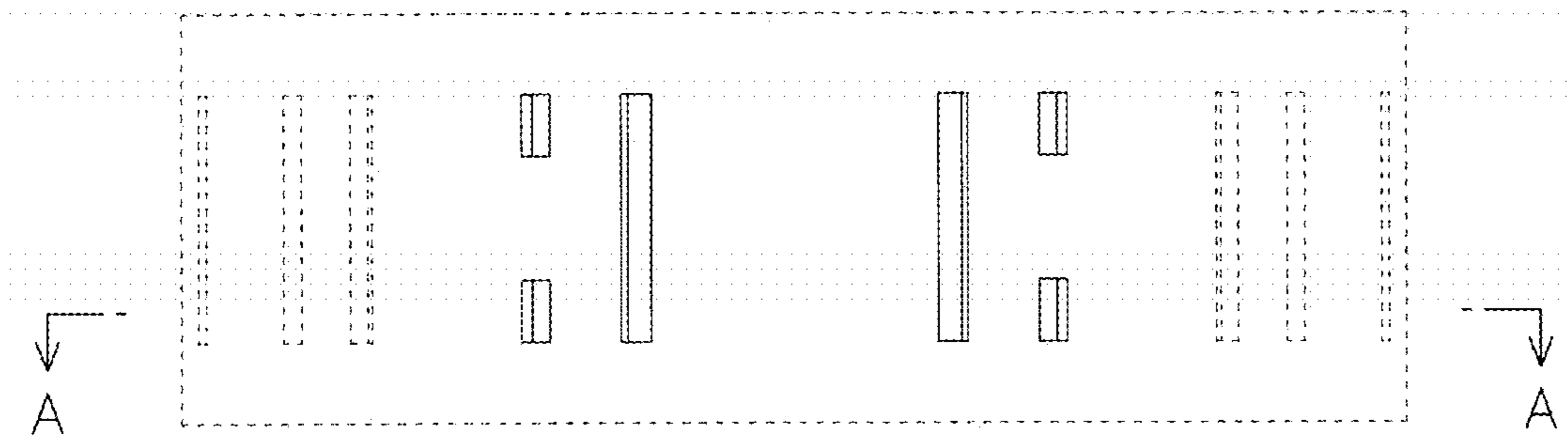


Fig. 3

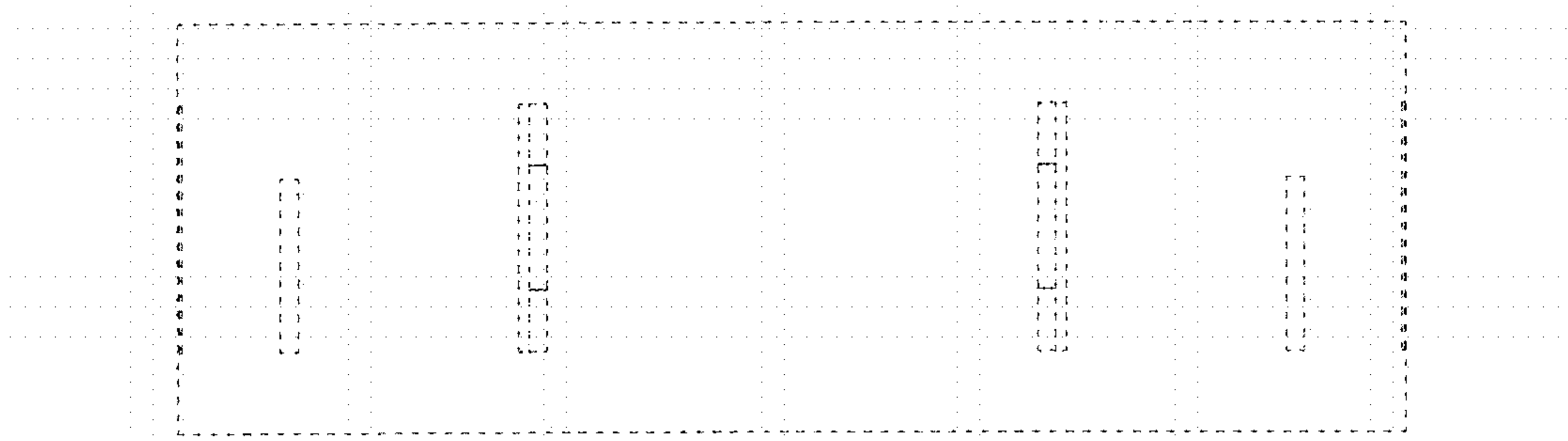


Fig. 4

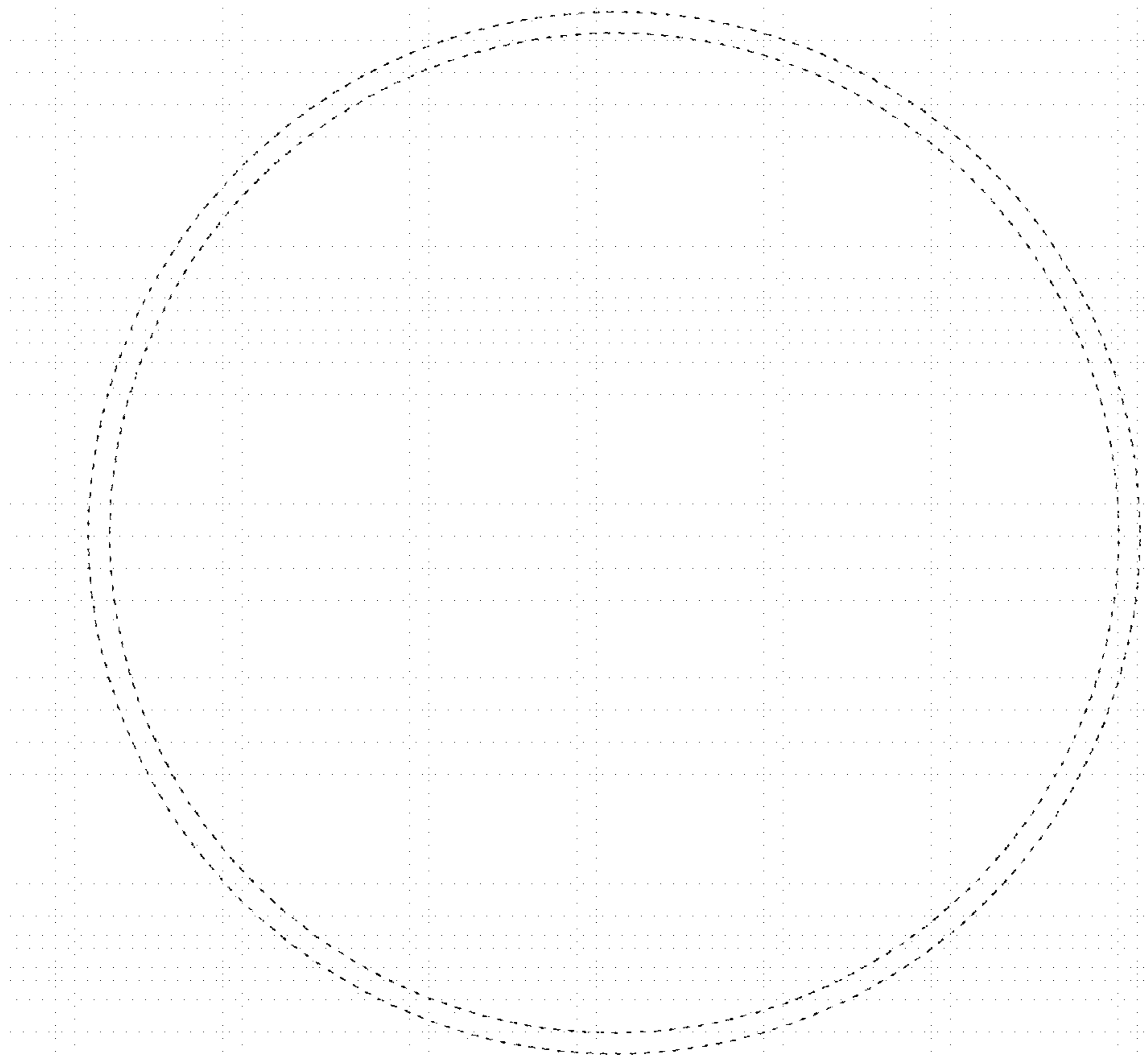


Fig. 5

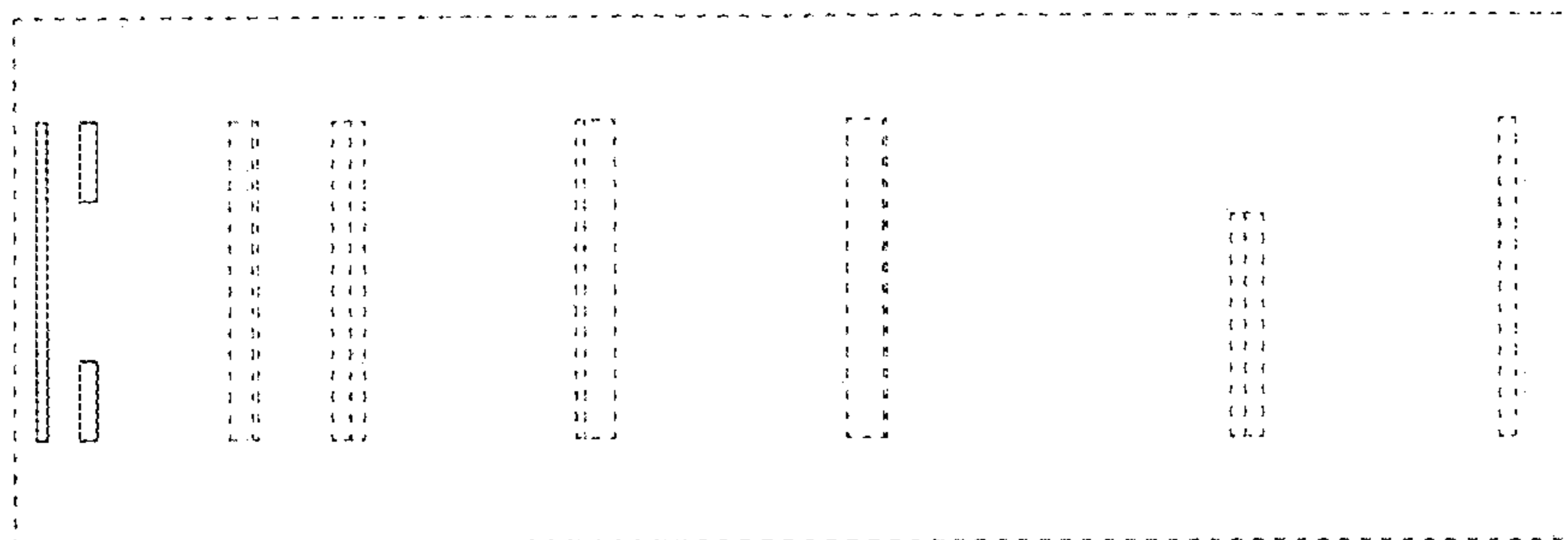


Fig. 6

