



US00D964292S

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

(10) **Patent No.:** **US D964,292 S**
(45) **Date of Patent:** **** Sep. 20, 2022**

- (54) **FERRULE FOR OPTICAL FIBER CONNECTORS**
- (71) Applicant: **Fujikura Ltd.**, Tokyo (JP)
- (72) Inventors: **Hiroataka Asada**, Sakura (JP); **Shigeo Takahashi**, Sakura (JP)
- (73) Assignee: **Fujikura Ltd.**, Tokyo (JP)
- (**) Term: **15 Years**
- (21) Appl. No.: **35/511,482**
- (22) Filed: **Sep. 3, 2020**
- (80) **Hague Agreement Data**
 Int. Filing Date: **Sep. 3, 2020**
 Int. Reg. No.: **DM/210587**
 Int. Reg. Date: **Sep. 3, 2020**
 Int. Reg. Pub. Date: **Mar. 5, 2021**

- (30) **Foreign Application Priority Data**
 Mar. 5, 2020 (JP) 2020-004388 D
- (51) **LOC (13) Cl.** **13-03**
- (52) **U.S. Cl.**
 USPC **D13/147**
- (58) **Field of Classification Search**
 USPC D13/133, 146, 147, 154, 184, 199;
 D14/433
 See application file for complete search history.

- (56) **References Cited**
U.S. PATENT DOCUMENTS
 5,815,621 A * 9/1998 Sakai G02B 6/3834
 264/1.24
 D526,276 S * 8/2006 Shiraiishi G02B 6/3882
 D13/146
 7,588,374 B2 * 9/2009 Nishimura G02B 6/3835
 385/63

- D611,418 S * 3/2010 Kato G02B 6/3835
 D13/147
- 7,726,885 B2 * 6/2010 Nishimura G02B 6/3885
 385/92
- D619,536 S * 7/2010 Kato D13/147
- 8,016,491 B2 * 9/2011 Takaoka G02B 6/3882
 385/60
- 8,562,225 B2 * 10/2013 Kato B29D 11/0075
 264/1.25

(Continued)

Primary Examiner — Keli L Hill
(74) *Attorney, Agent, or Firm* — Osha Bergman Watanabe & Burton LLP

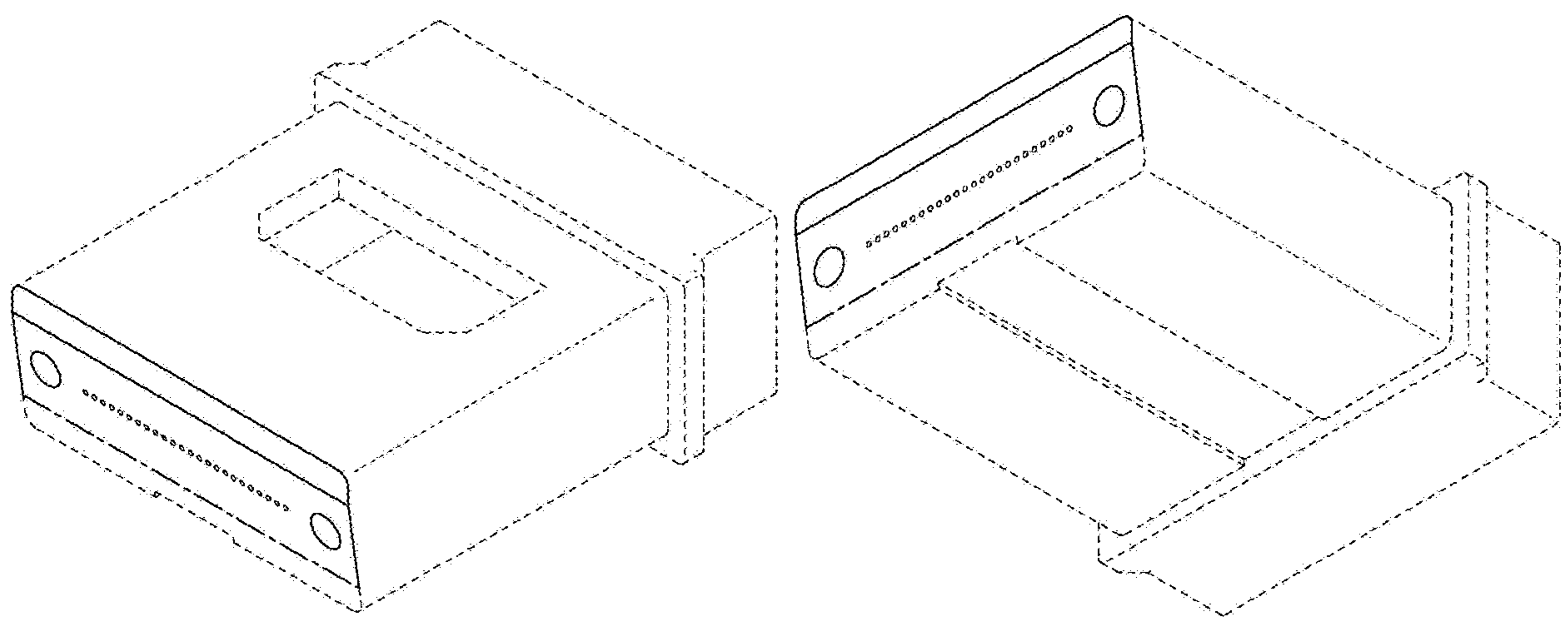
(57) **CLAIM**

The ornamental design for ferrule for optical fiber connectors, as shown and described.

DESCRIPTION

1. Ferrule for optical fiber connectors
 Reproduction 1.1 is a top perspective view;
 reproduction 1.2 is a bottom perspective view;
 reproduction 1.3 is a front elevation view;
 reproduction 1.4 is a rear elevation view;
 reproduction 1.5 is a top plan view;
 reproduction 1.6 is a bottom plan view;
 reproduction 1.7 is a left side elevation view;
 reproduction 1.8 is a right side elevation view;
 reproduction 1.9 is an enlarged cross-sectional view taken vertically at the center of reproduction 1.3;
 reproduction 1.10 is an enlarged cross-sectional view taken horizontally at the center of reproduction 1.3.
 The spaced parallel lines seen in reproductions 1.9 and 1.10 are for showing the cross sections and form no part of the claimed design. The dot-dot-dash broken lines represent the bounds of the claimed design while all other broken lines are included for the purpose of illustrating portions of the ferrule for optical fiber connectors; the broken lines form no part of the claimed design.

1 Claim, 10 Drawing Sheets



(56)

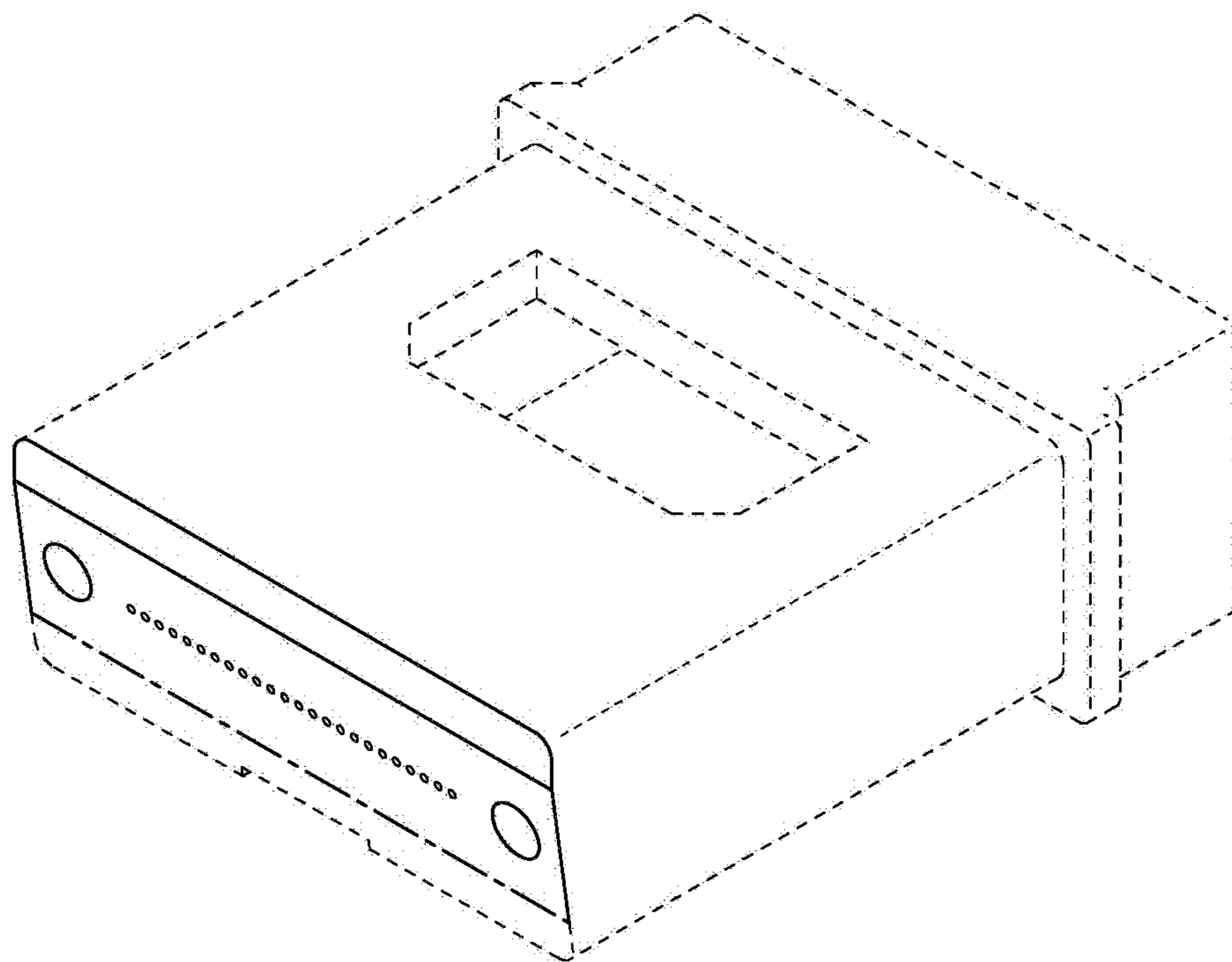
References Cited

U.S. PATENT DOCUMENTS

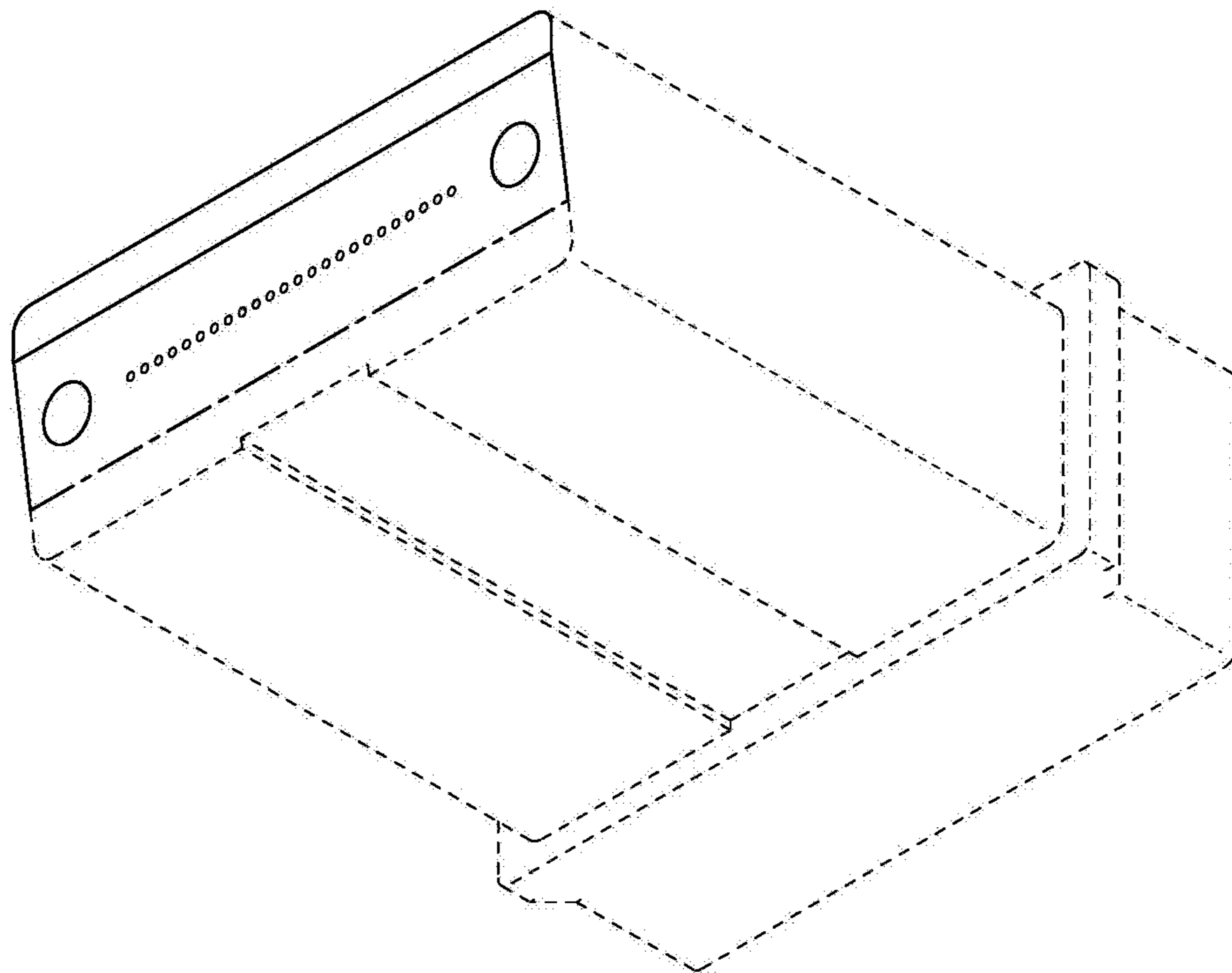
D740,756 S * 10/2015 Katagiyama G02B 6/3885
D13/147
D740,758 S * 10/2015 Katagiyama G02B 6/32
D13/147
9,632,258 B2 * 4/2017 Nishimura G02B 6/3834
2006/0245695 A1 * 11/2006 Fujiwara G02B 6/3885
385/71
2011/0229086 A1 * 9/2011 Bradley G02B 6/3885
385/129
2022/0075124 A1 * 3/2022 Asada G02B 6/32

* cited by examiner

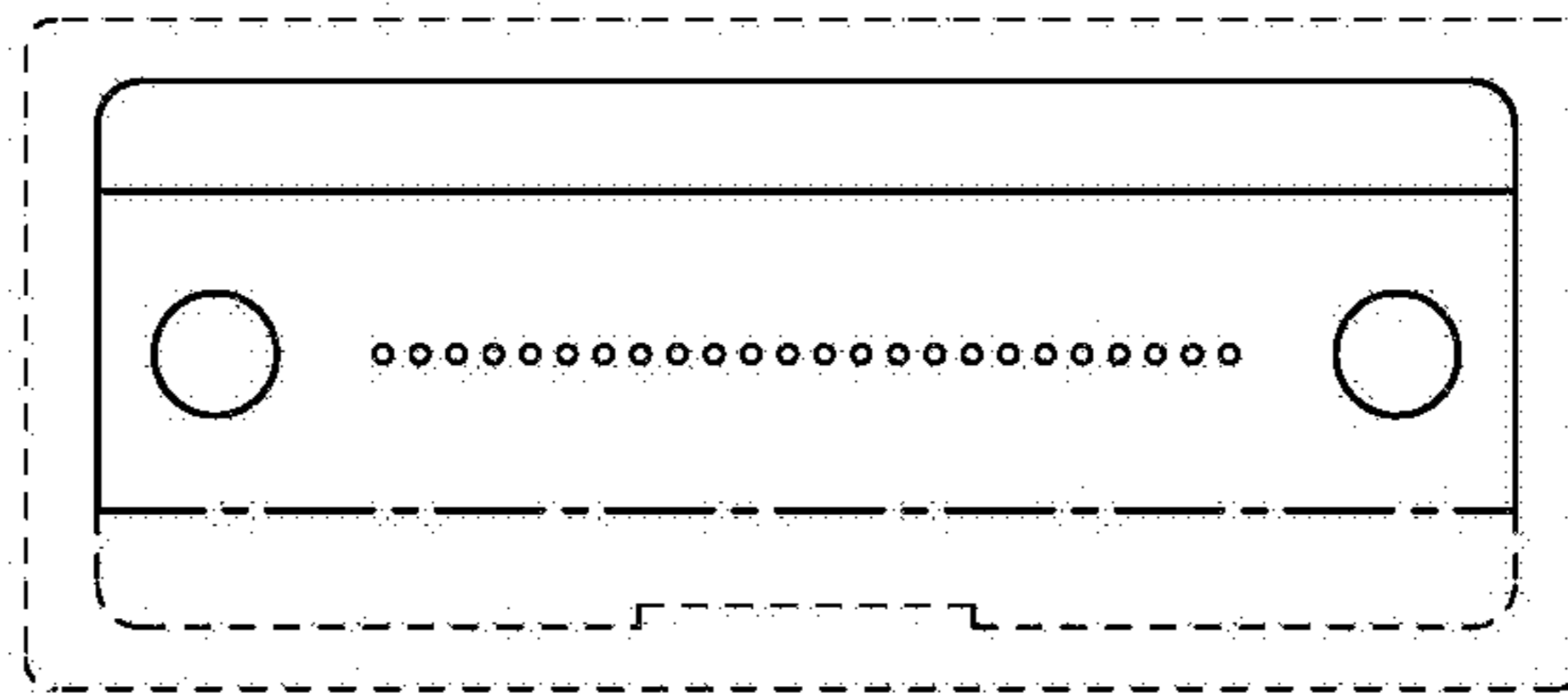
1.1



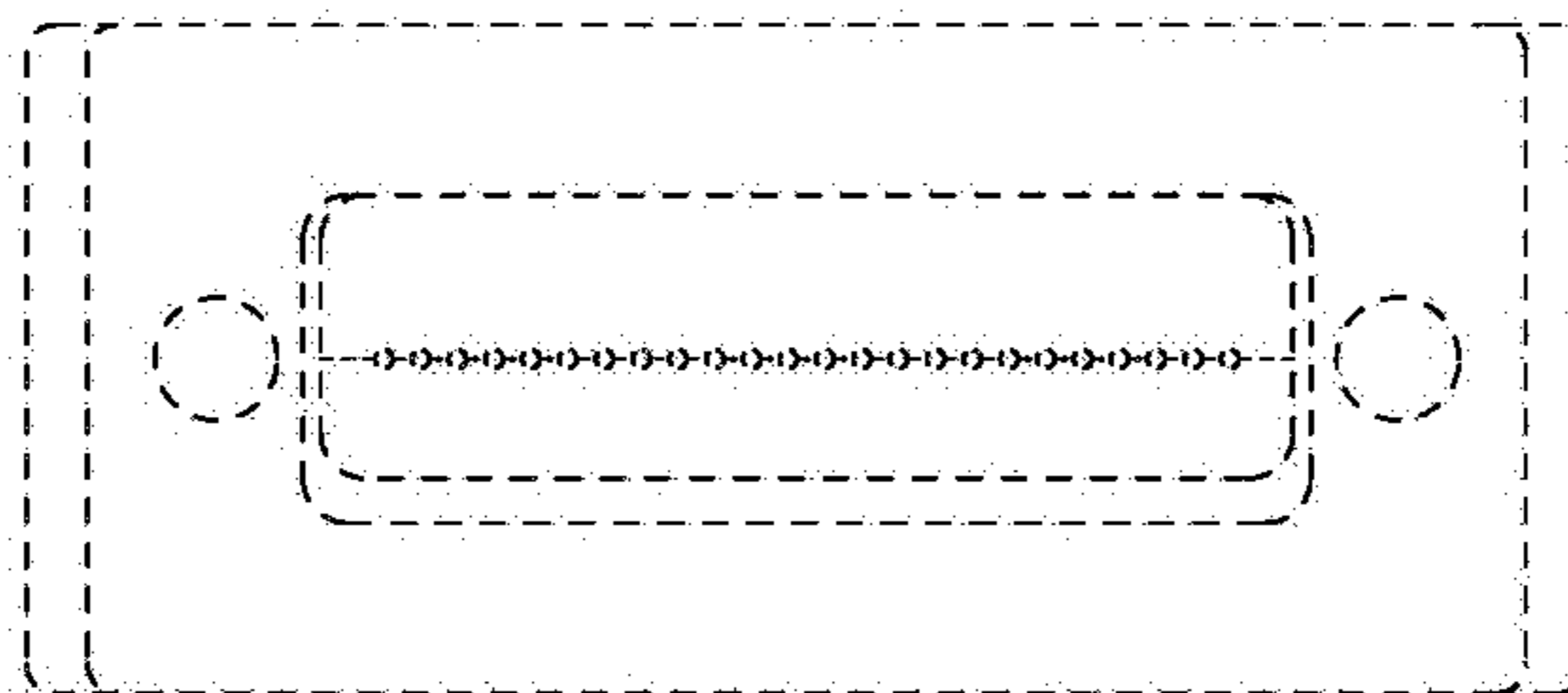
1.2



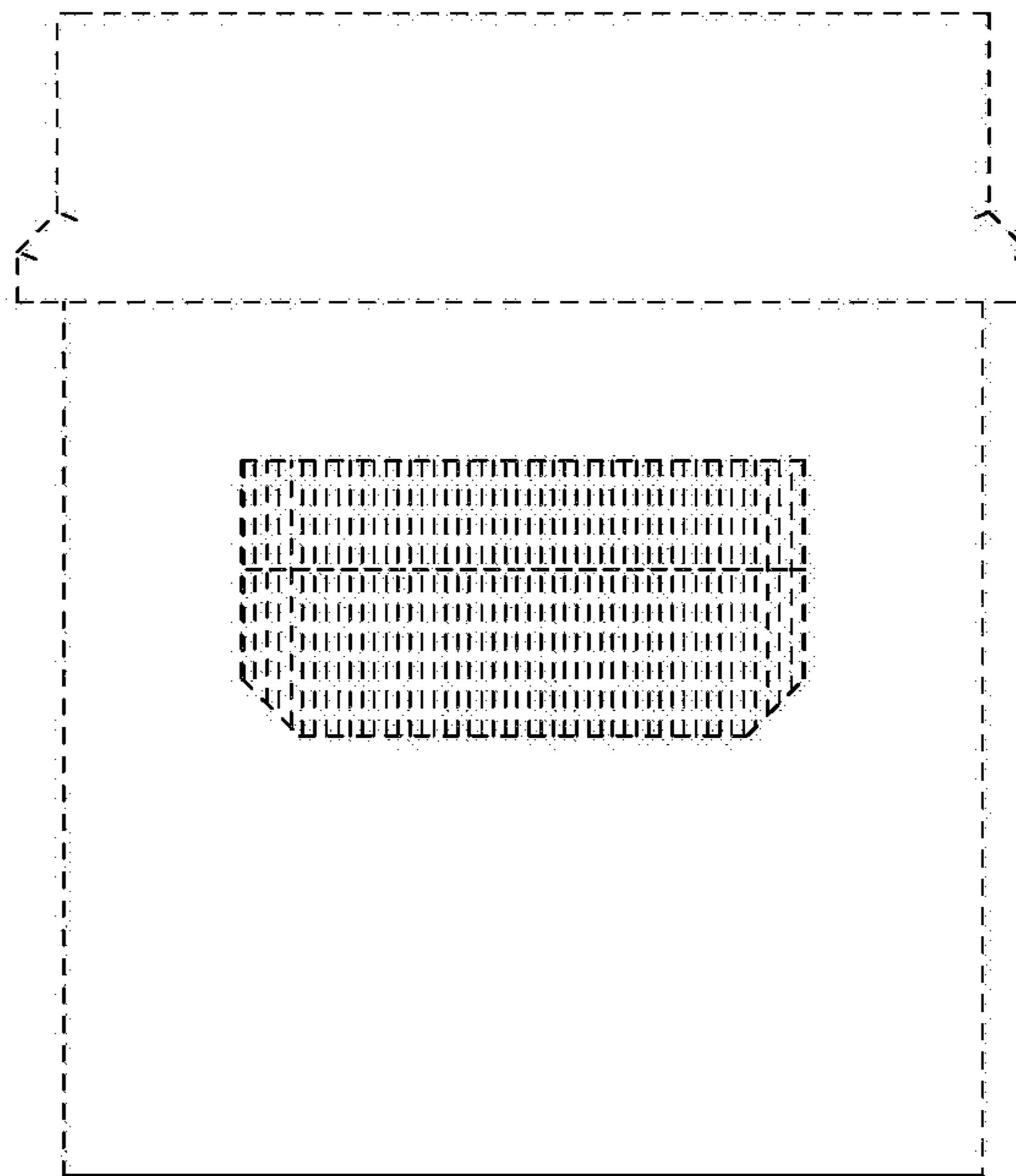
1.3



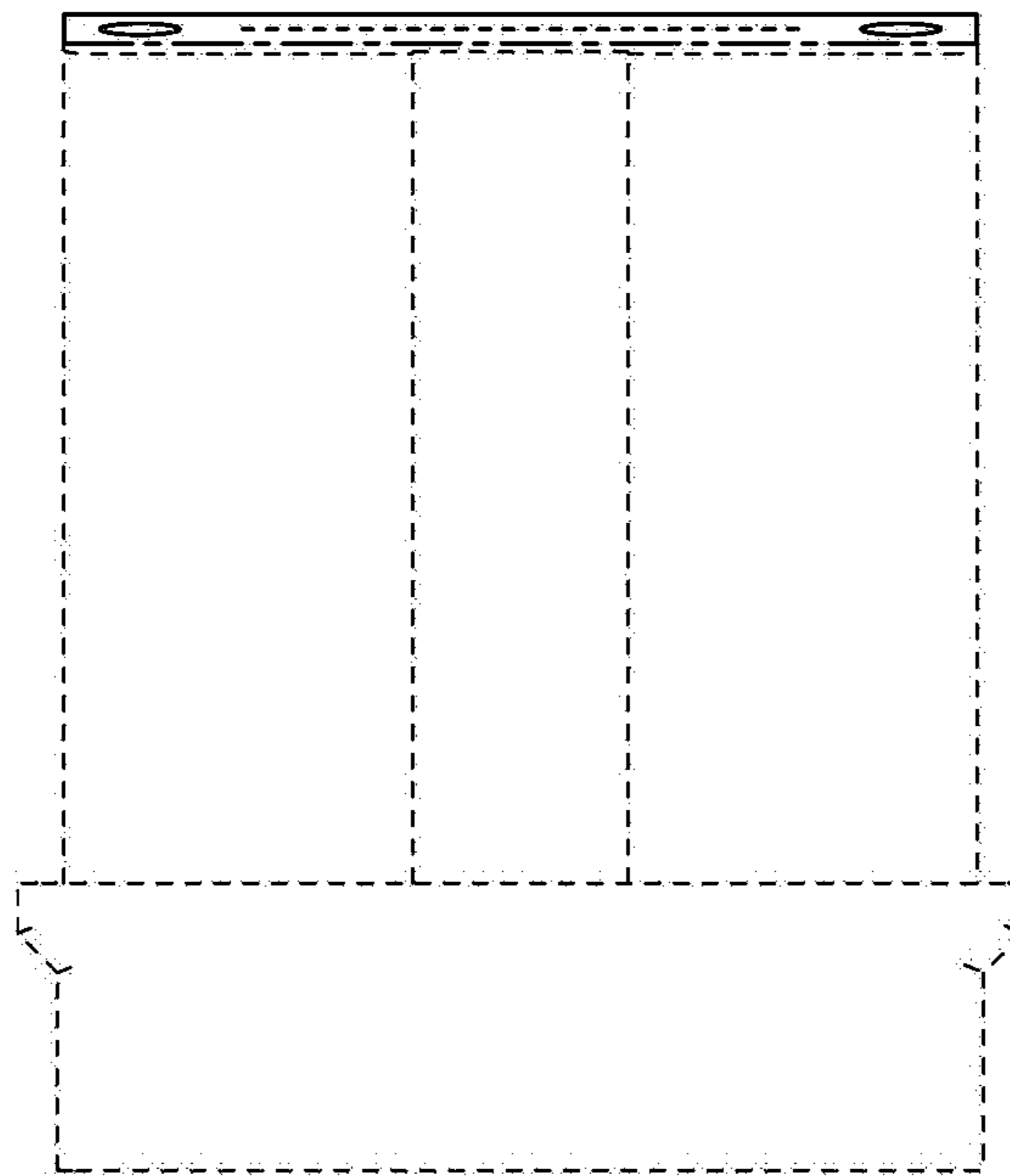
1.4



1.5



1.6



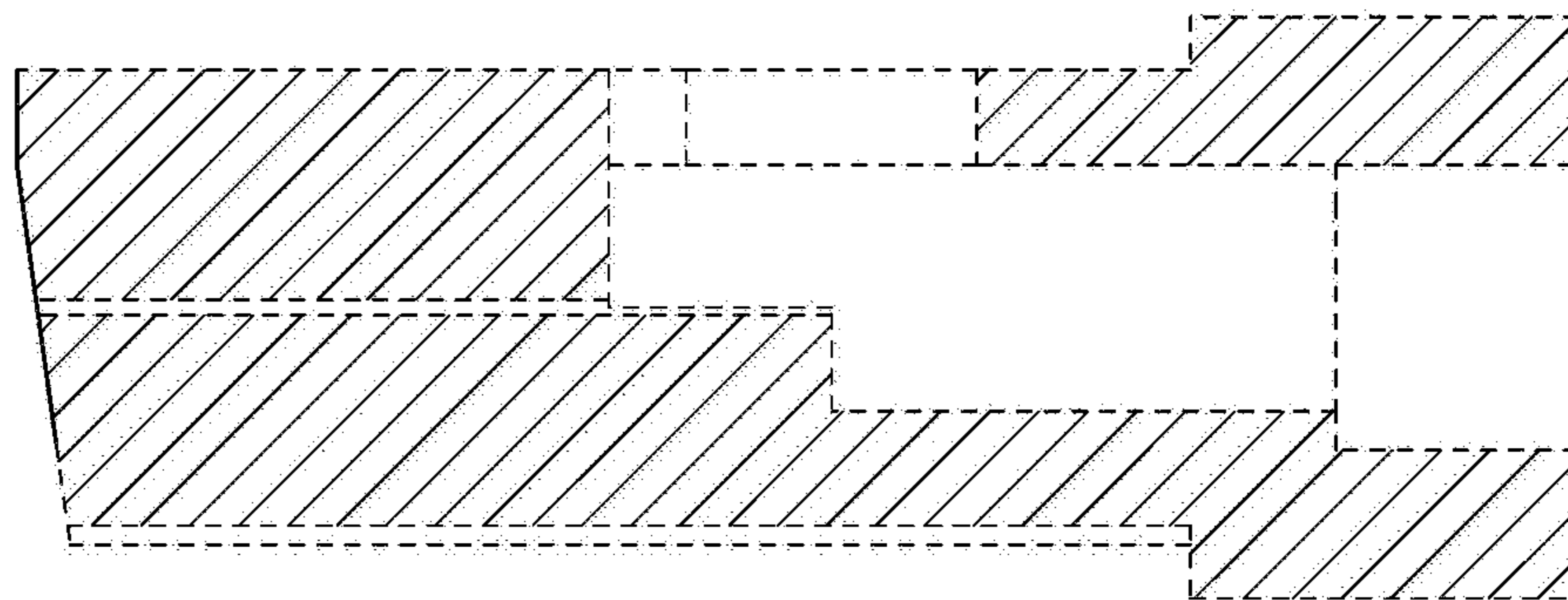
1.7



1.8



1.9



1.10

