

US00D899947S

(12) **United States Design Patent** (10) **Patent No.:** **US D899,947 S**
Liu et al. (45) **Date of Patent:** **** Oct. 27, 2020**

(54) **LASER SENSOR FOR PARTICULATE MATTER DETECTOR**
(71) Applicant: **Beijing Xiaomi Mobile Software Co., Ltd., Beijing (CN)**
(72) Inventors: **Tie Liu, Beijing (CN); Ziming Yuan, Beijing (CN)**
(73) Assignee: **Beijing Xiaomi Mobile Software Co., Ltd., Beijing (CN)**

D597,428 S * 8/2009 Sato D10/104.1
D708,977 S * 7/2014 Corso D10/104.1
D778,190 S * 2/2017 VanDuyn D10/104.1
D778,191 S * 2/2017 VanDuyn D10/104.1
D793,888 S * 8/2017 Hasegawa D10/106.95
D814,953 S * 4/2018 Masuyama D10/104.1
D849,570 S * 5/2019 Sakalowsky D10/52
D859,195 S * 9/2019 Kristensson D10/106.1
D866,356 S * 11/2019 Elrod D10/52
D876,249 S * 2/2020 Bee D10/53

(**) Term: **15 Years**
(21) Appl. No.: **35/506,926**
(22) Filed: **Dec. 12, 2018**

OTHER PUBLICATIONS

Indian Patent Office, Office Action Issued in Application No. 313656-001, Feb. 7, 2019, dated 11 pages.

(80) **Hague Agreement Data**
Int. Filing Date: **Dec. 12, 2018**
Int. Reg. No.: **DM/200636**
Int. Reg. Date: **Dec. 12, 2018**
Int. Reg. Pub. Date: **Jun. 14, 2019**

* cited by examiner

Primary Examiner — George D. Kirschbaum
Assistant Examiner — Joseph J Kukella
(74) *Attorney, Agent, or Firm* — Syncoda LLC; Feng Ma

(30) **Foreign Application Priority Data**

Jul. 18, 2018 (CN) 2018 3 0388692

(51) **LOC (12) Cl.** **10-05**
(52) **U.S. Cl.**
USPC **D10/52**

(57) **CLAIM**

The ornamental design for a laser sensor for particulate matter detector, as shown and described.

(58) **Field of Classification Search**
USPC D10/52, 70, 97, 103, 104.1, 104.2, D10/106.1–106.95, 108, 121, 123, 124, D10/125, 132; D14/356, 357, 358; D16/202, 203, 214, 215
CPC G08B 17/00; G08B 17/06; G08B 17/10; G08B 17/11; G08B 17/12; G08B 17/103; G08B 17/107; G08B 21/02; G08B 21/0202; G08B 21/0205; G08B 21/182
See application file for complete search history.

DESCRIPTION

- 1. Laser sensor for particulate matter detector
- 1.1: Front
- 1.2: Rear
- 1.3: Left side
- 1.4: Right side
- 1.5: Top
- 1.6: Bottom
- 1.7: Perspective

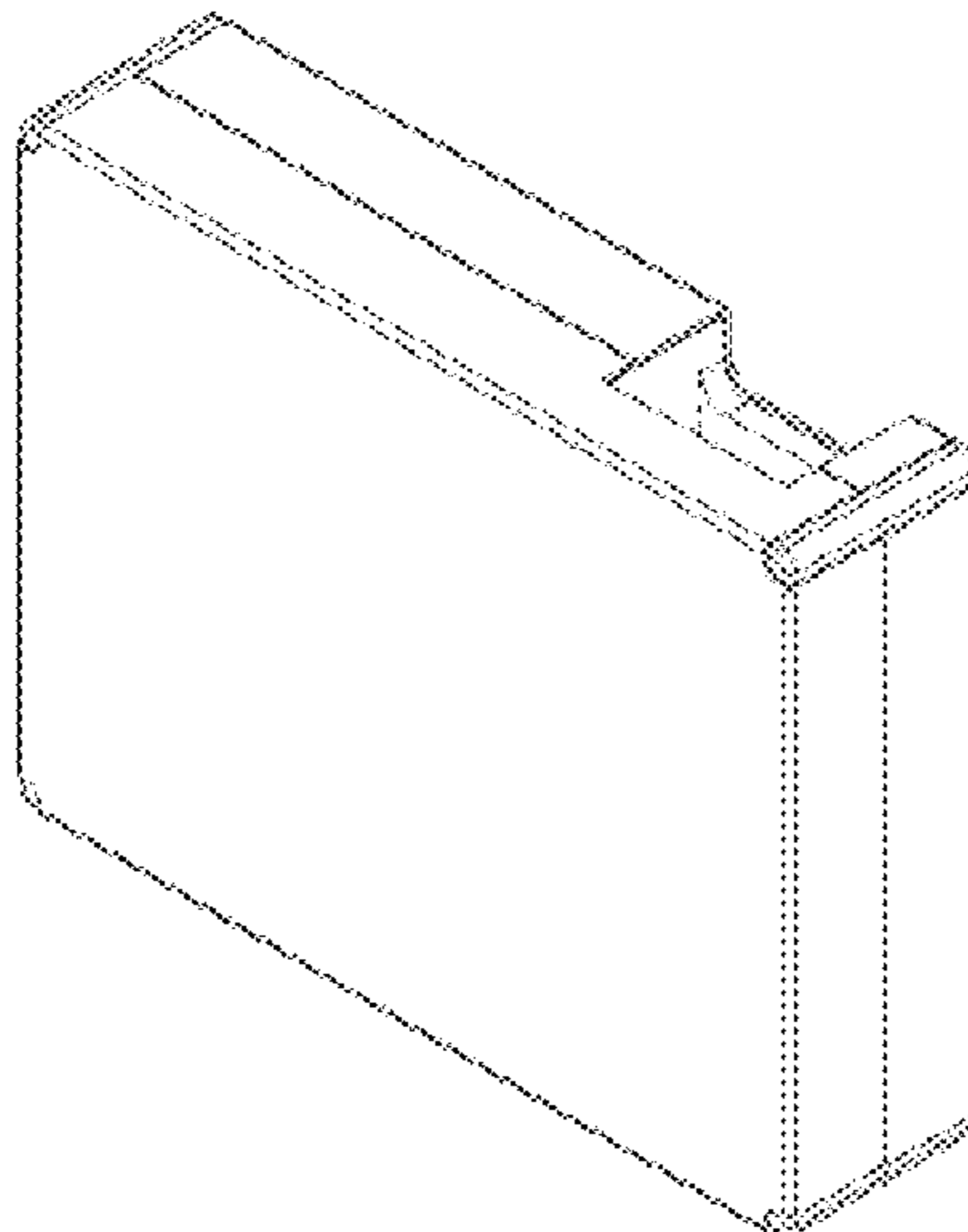
(56) **References Cited**

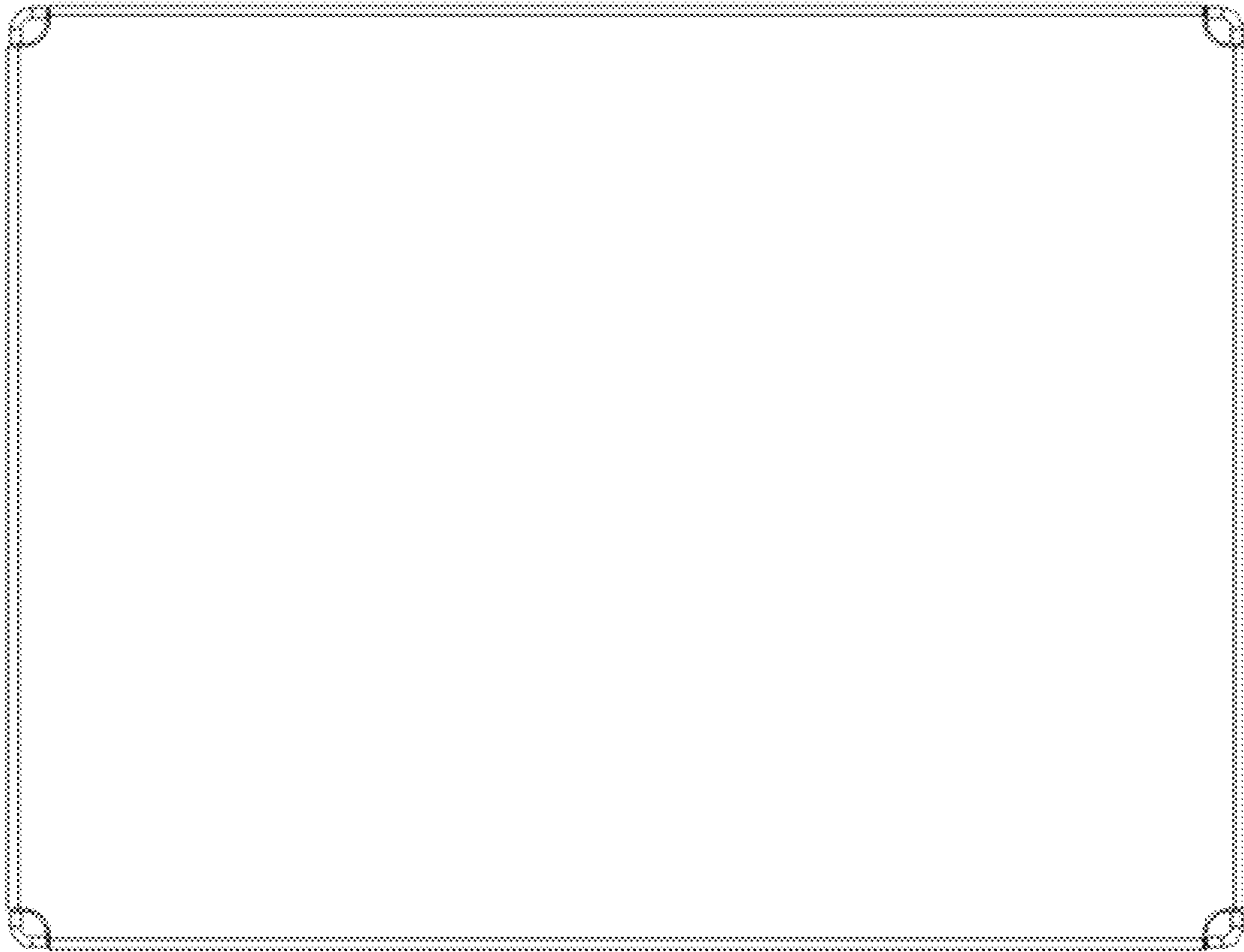
U.S. PATENT DOCUMENTS

D501,799 S * 2/2005 Yamamoto D10/52
D518,744 S * 4/2006 Rosen D10/50

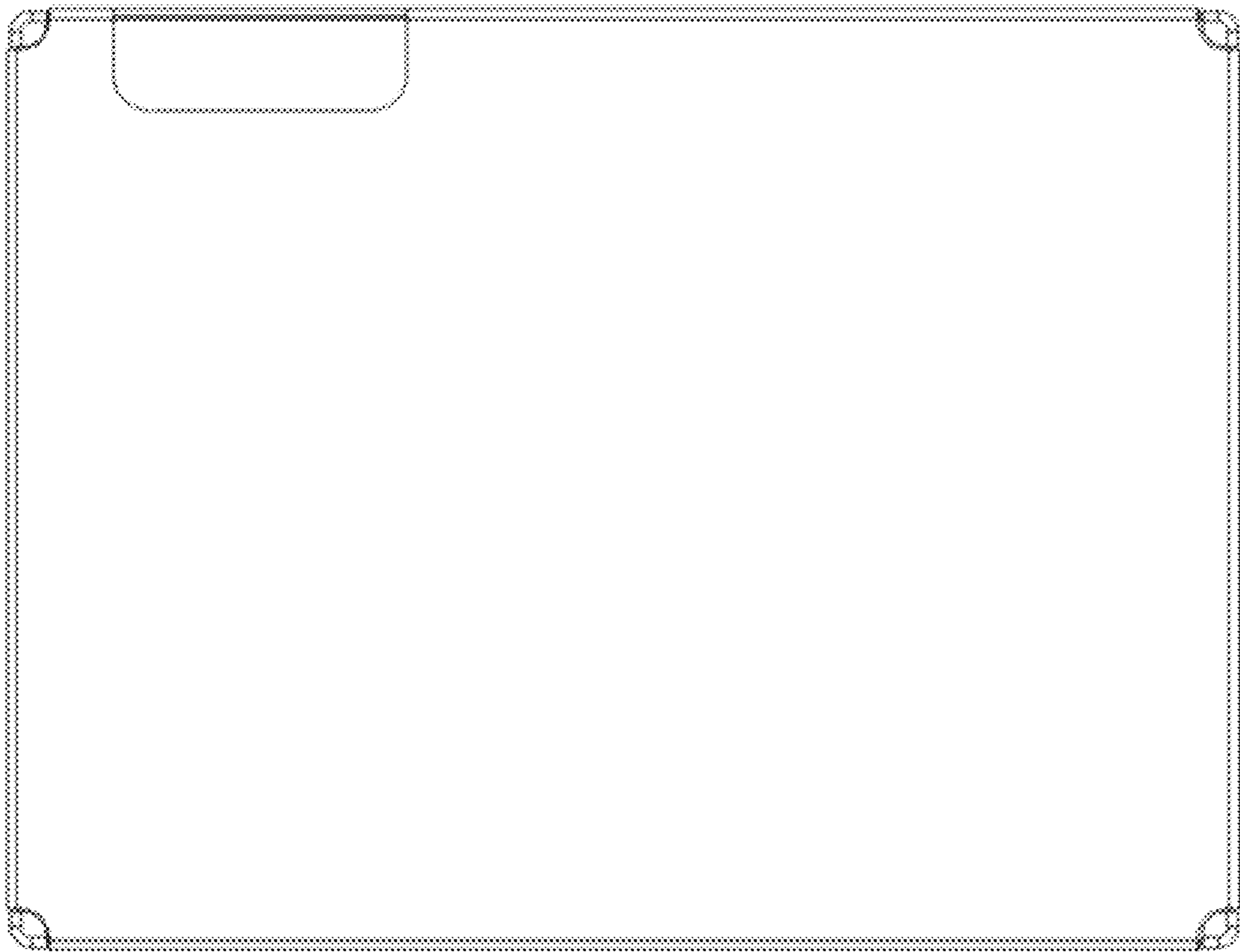
The portions of the laser sensor for particulate matter detector shown in broken lines form no part of the claimed design.

1 Claim, 7 Drawing Sheets

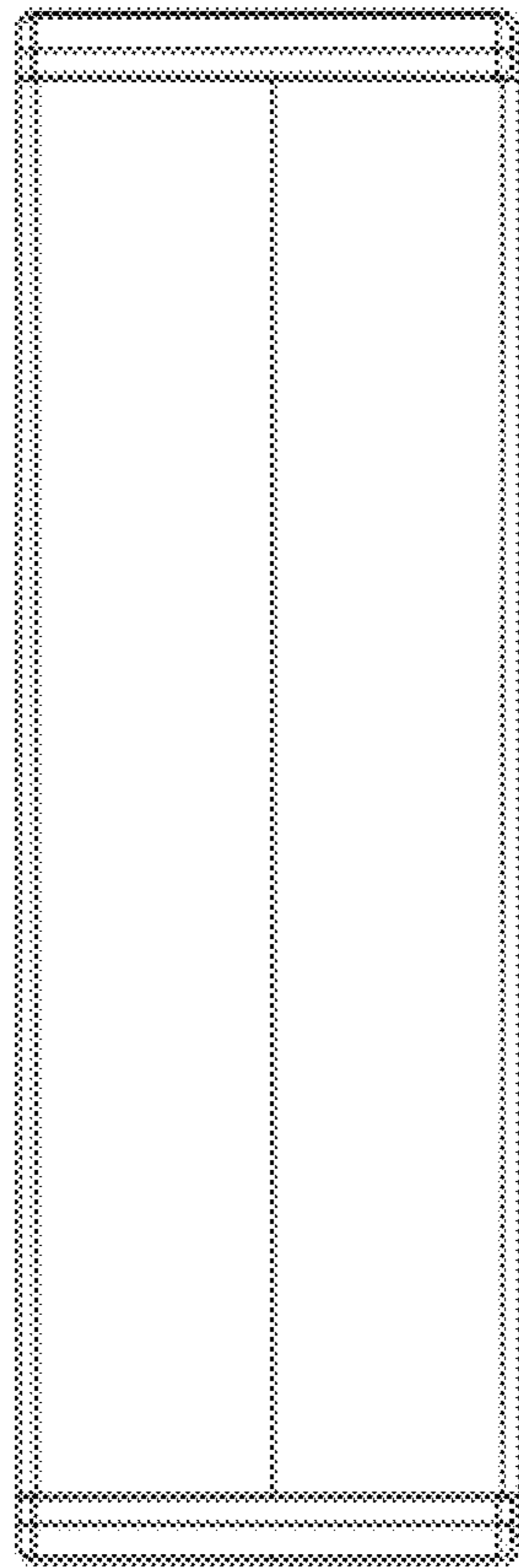




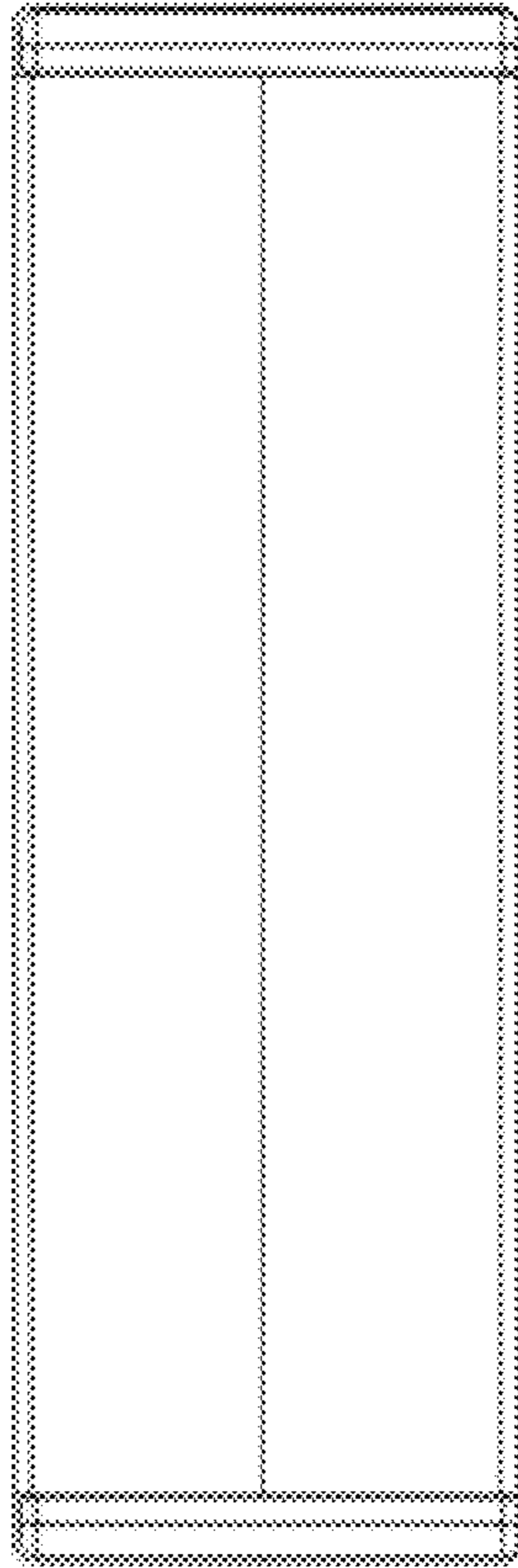
1.1



1.2



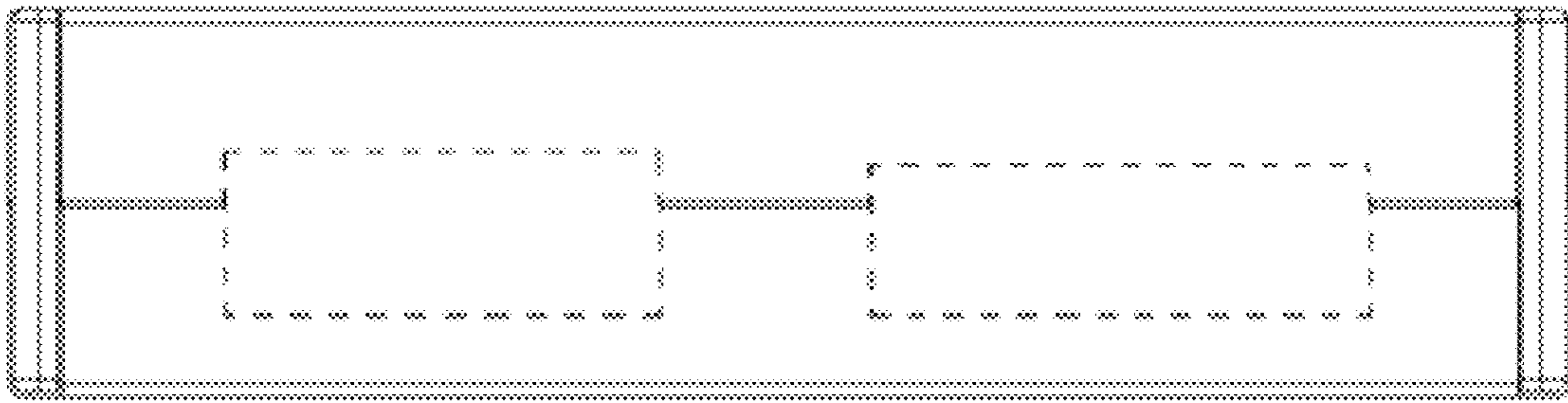
1.3



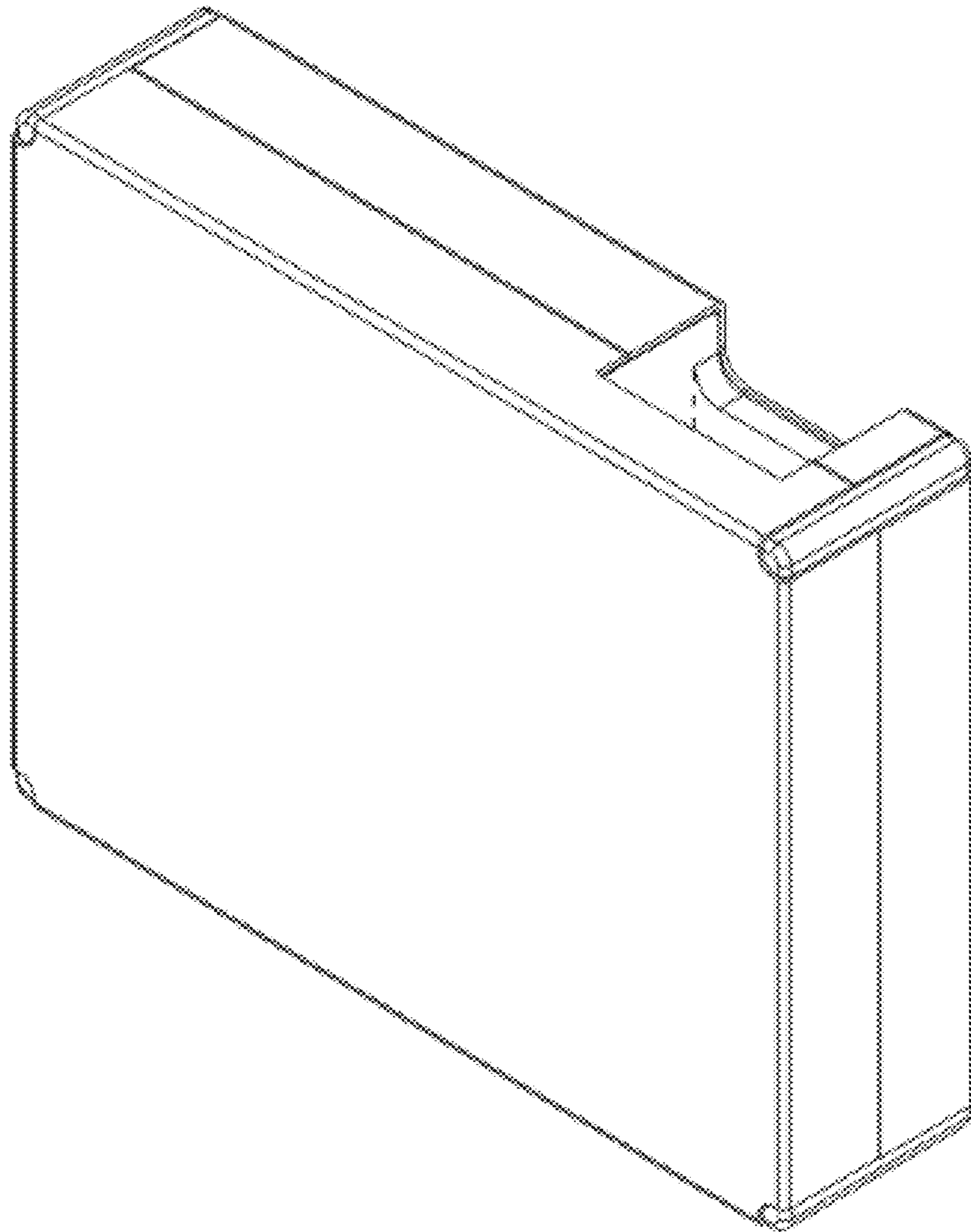
1.4



1.5



1.6



1.7