



US00D864412S

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

(10) **Patent No.: US D864,412 S**
(45) **Date of Patent: ** Oct. 22, 2019**

- (54) **CARTRIDGE CHASSIS**
- (71) Applicant: **Illumina, Inc.**, San Diego, CA (US)
- (72) Inventors: **Michael Thomas Dangelo**, San Diego, CA (US); **James Michael Osmus**, San Diego, CA (US); **Lea Sandra Kobeli**, San Francisco, CA (US); **Edward Wilson Licitra**, San Francisco, CA (US)
- (73) Assignee: **Illumina, Inc.**, San Diego, CA (US)
- (**) Term: **15 Years**
- (21) Appl. No.: **29/589,643**
- (22) Filed: **Jan. 3, 2017**
- (51) **LOC (12) Cl. 24-02**
- (52) **U.S. Cl.**
USPC **D24/224**
- (58) **Field of Classification Search**
USPC D24/216, 217, 219, 220, 223, 224, 225, D24/226, 227, 232, 233; D9/424, 425, D9/432, 732, 735, 749, 755, 758, 760; D7/550.1, 553.1-553.5, 554.3, 554.4; D18/43, 44; D3/294-295
CPC A47G 23/06; A61B 50/20; A61B 50/30; A61J 1/00; B01L 3/50; B01L 3/52; B01L 7/00; B01L 7/02; C07K 1/26; C12Q 1/00
See application file for complete search history.

- 7,036,667 B2 * 5/2006 Greenstein B01L 9/527
206/205
 - D565,742 S * 4/2008 Parunak D24/224
 - D566,291 S * 4/2008 Parunak D24/224
 - D578,758 S * 10/2008 Stevens D3/272
- (Continued)

FOREIGN PATENT DOCUMENTS

TW D182357 S 4/2017

OTHER PUBLICATIONS

U.S. Appl. No. 29/589,638, filed Jan. 3, 2017, Dangelo, et al.
(Continued)

Primary Examiner — Vy N Koenig
(74) *Attorney, Agent, or Firm* — Weaver Austin Villeneuve & Sampson LLP

(57) **CLAIM**

We claim the ornamental design for a cartridge chassis, as shown and described.

DESCRIPTION

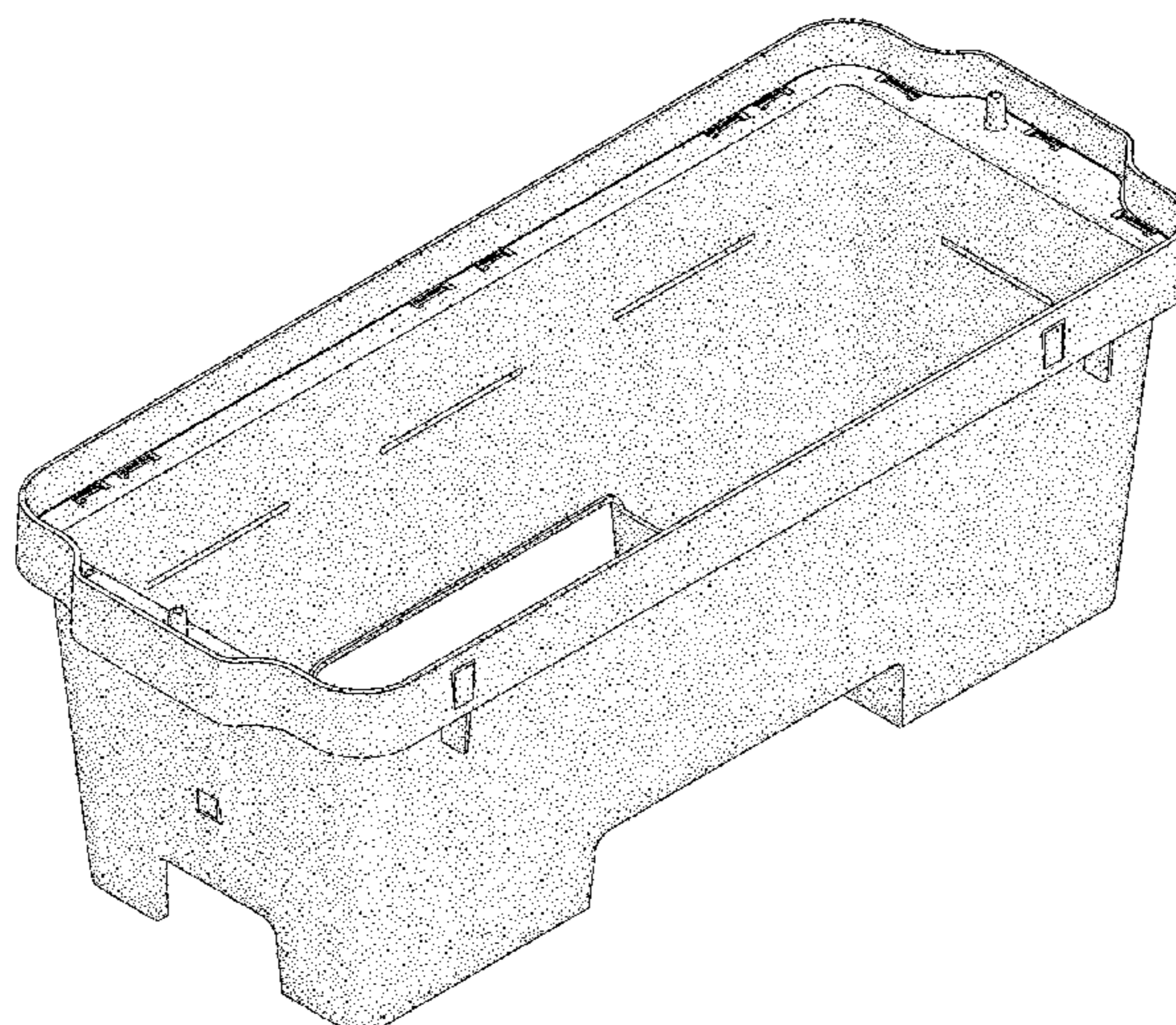
FIG. 1 is an isometric view of a cartridge chassis.
FIG. 2 is a right side view of the cartridge chassis of FIG. 1.
FIG. 3 is a left side view of the cartridge chassis of FIG. 1.
FIG. 4 is a top view of the cartridge chassis of FIG. 1.
FIG. 5 is a bottom view of the cartridge chassis of FIG. 1.
FIG. 6 is a rear view of the cartridge chassis of FIG. 1.
FIG. 7 is a front view of the cartridge chassis of FIG. 1.
FIG. 8 is an off-angle perspective view of the underside of the cartridge chassis of FIG. 1; and,
FIG. 9 is another off-angle perspective view of the underside of the cartridge chassis of FIG. 1.
Stipple shading is used in the accompanying FIGS. 1-9 to convey surface contouring and is not indicative of any particular texture or coloring.

1 Claim, 9 Drawing Sheets

(56) **References Cited**

U.S. PATENT DOCUMENTS

- 4,798,292 A * 1/1989 Hauze A61L 2/26
206/439
- D332,664 S * 1/1993 Sincock D24/130
- D339,869 S * 9/1993 Schea, III D24/224
- D438,632 S * 3/2001 Miller D24/216
- D451,278 S * 12/2001 Cooper D3/294
- D510,802 S * 10/2005 Sagol D3/273



(56)

References Cited

U.S. PATENT DOCUMENTS

| | | | | | |
|--------------|------|---------|-----------|-------|-----------------------|
| D604,604 | S * | 11/2009 | Strange | ..... | D9/424 |
| D624,194 | S * | 9/2010 | Pack | ..... | D24/224 |
| D632,803 | S * | 2/2011 | Motadel | ..... | D24/229 |
| D657,473 | S * | 4/2012 | Miyashita | ..... | D24/224 |
| D674,112 | S * | 1/2013 | Demas | ..... | D24/226 |
| D691,733 | S * | 10/2013 | Demas | ..... | D24/226 |
| D699,370 | S * | 2/2014 | Motadel | ..... | D24/229 |
| D717,470 | S * | 11/2014 | Demas | ..... | D24/226 |
| D724,236 | S * | 3/2015 | Motadel | ..... | D24/227 |
| D732,186 | S * | 6/2015 | Burroughs | ..... | D24/226 |
| 9,198,811 | B2 * | 12/2015 | Pizzato | ..... | A61F 17/00 |
| 9,610,126 | B2 * | 4/2017 | Griffin | ..... | A61B 50/30 |
| D825,774 | S * | 8/2018 | Self | ..... | D24/224 |
| D827,149 | S * | 8/2018 | Self | ..... | D24/224 |
| 10,071,381 | B2 * | 9/2018 | Welch | ..... | A61B 5/15 |
| 2010/0221151 | A1 * | 9/2010 | Motadel | ..... | B01L 9/543 422/526 |
| 2011/0236278 | A1 * | 9/2011 | Motadel | ..... | B01L 9/543 422/560 |
| 2014/0234182 | A1 * | 8/2014 | Motadel | ..... | B01L 9/543 422/526 |

OTHER PUBLICATIONS

- U.S. Appl. No. 29/589,640, filed Jan. 3, 2017, Dangelo, et al.
- U.S. Appl. No. 29/589,641, filed Jan. 3, 2017, Dangelo, et al.
- U.S. Appl. No. 29/589,642, filed Jan. 3, 2017, Dangelo, et al.

* cited by examiner

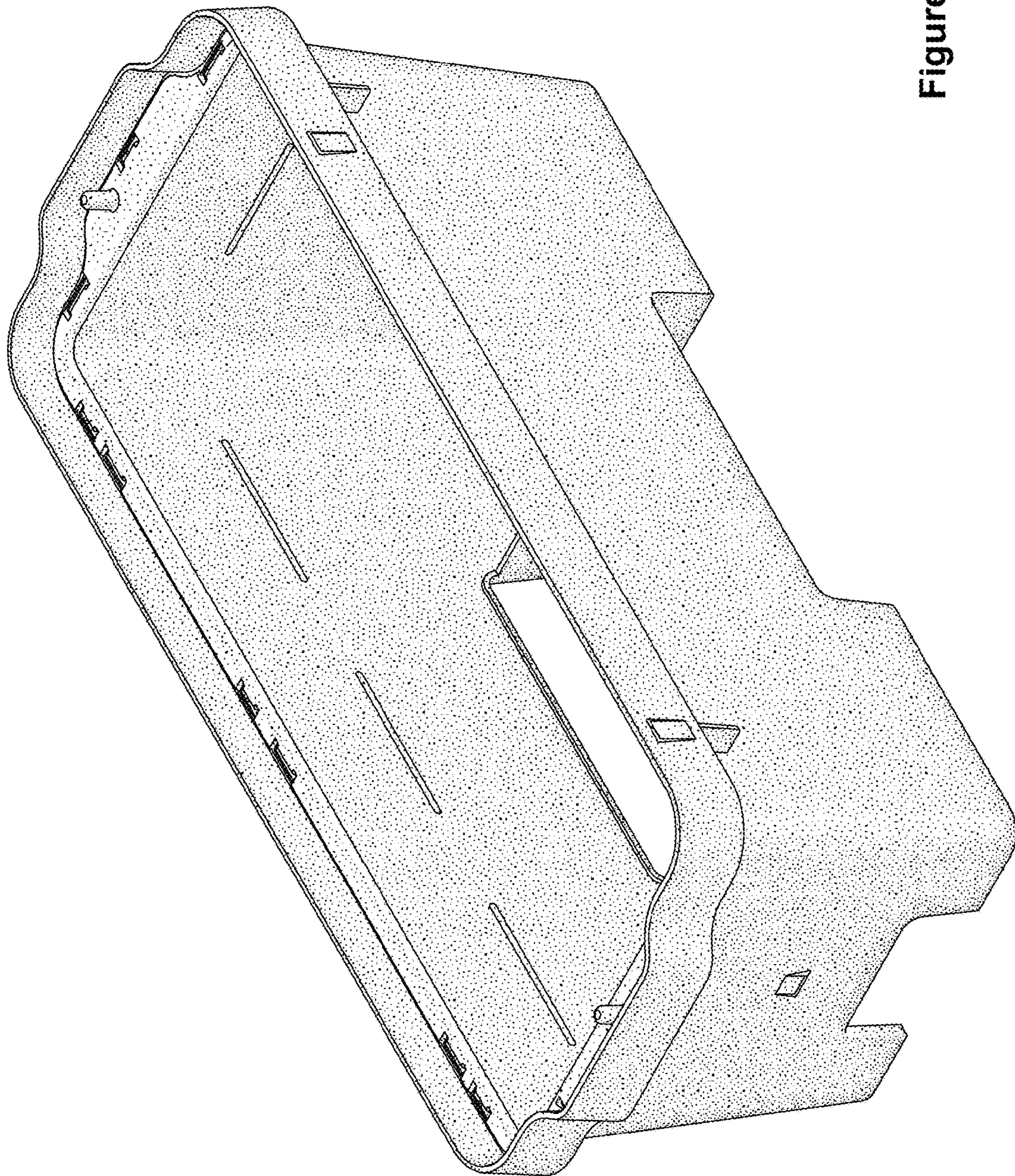


Figure 1

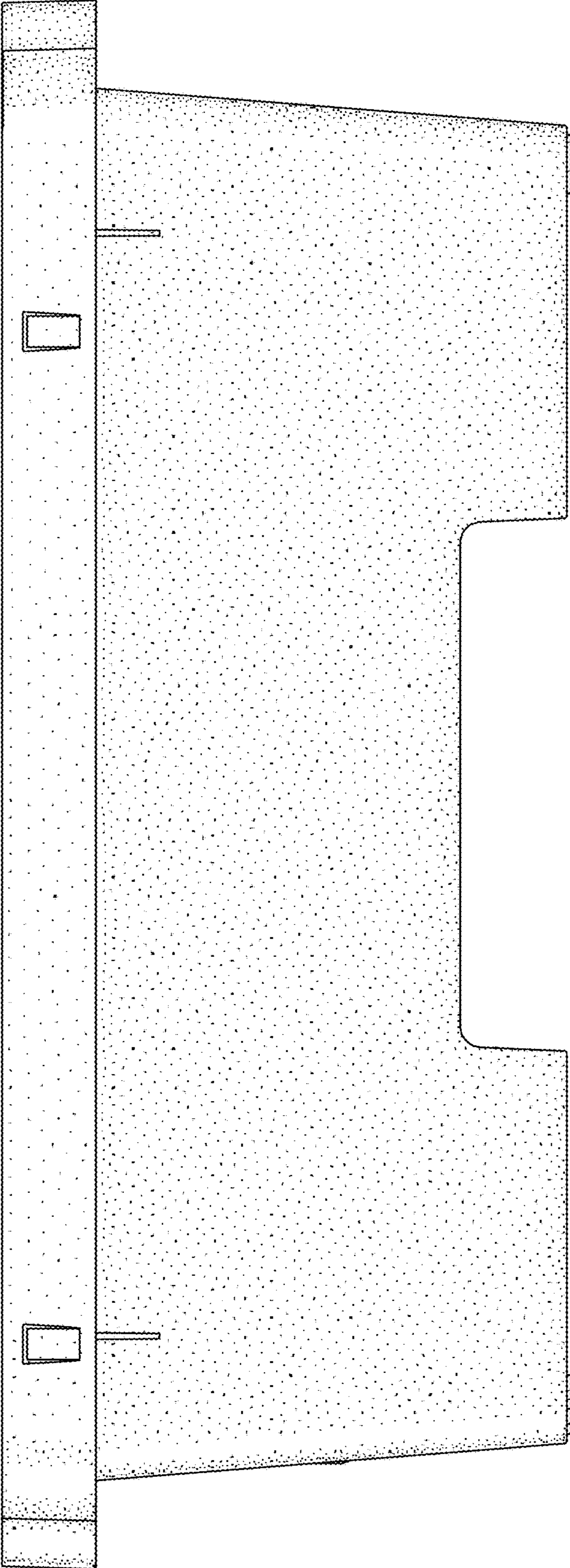


Figure 2

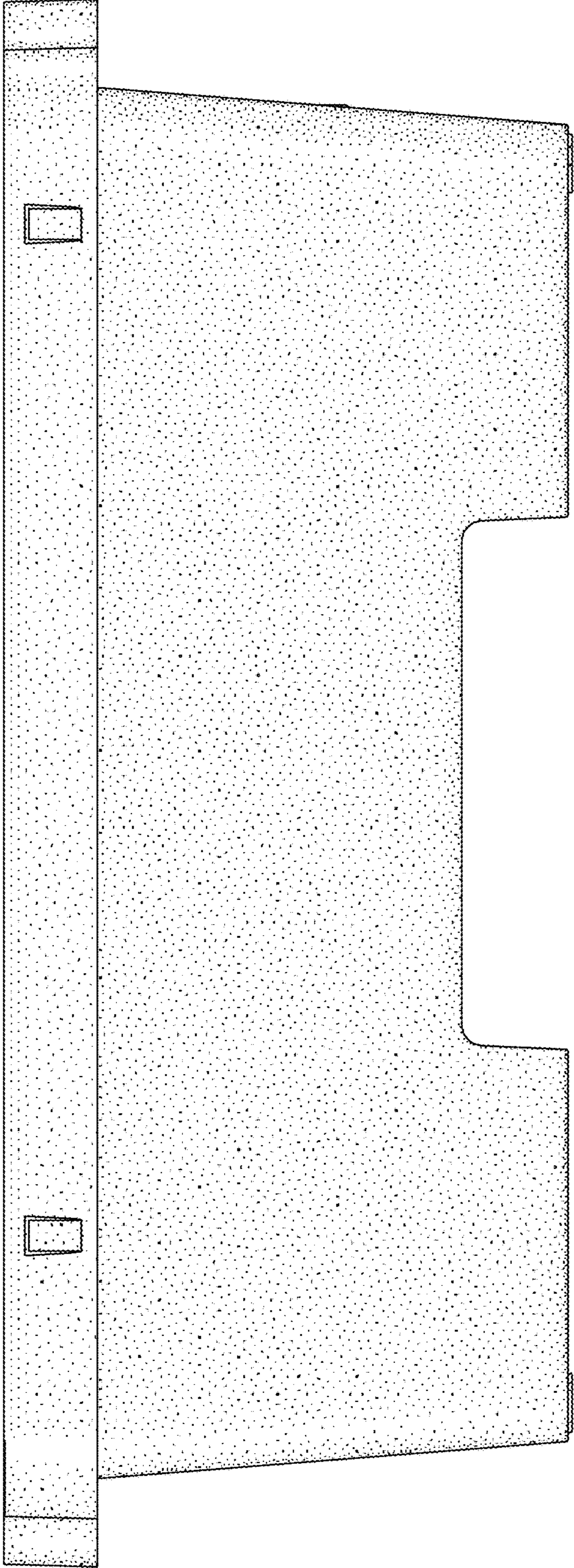


Figure 3

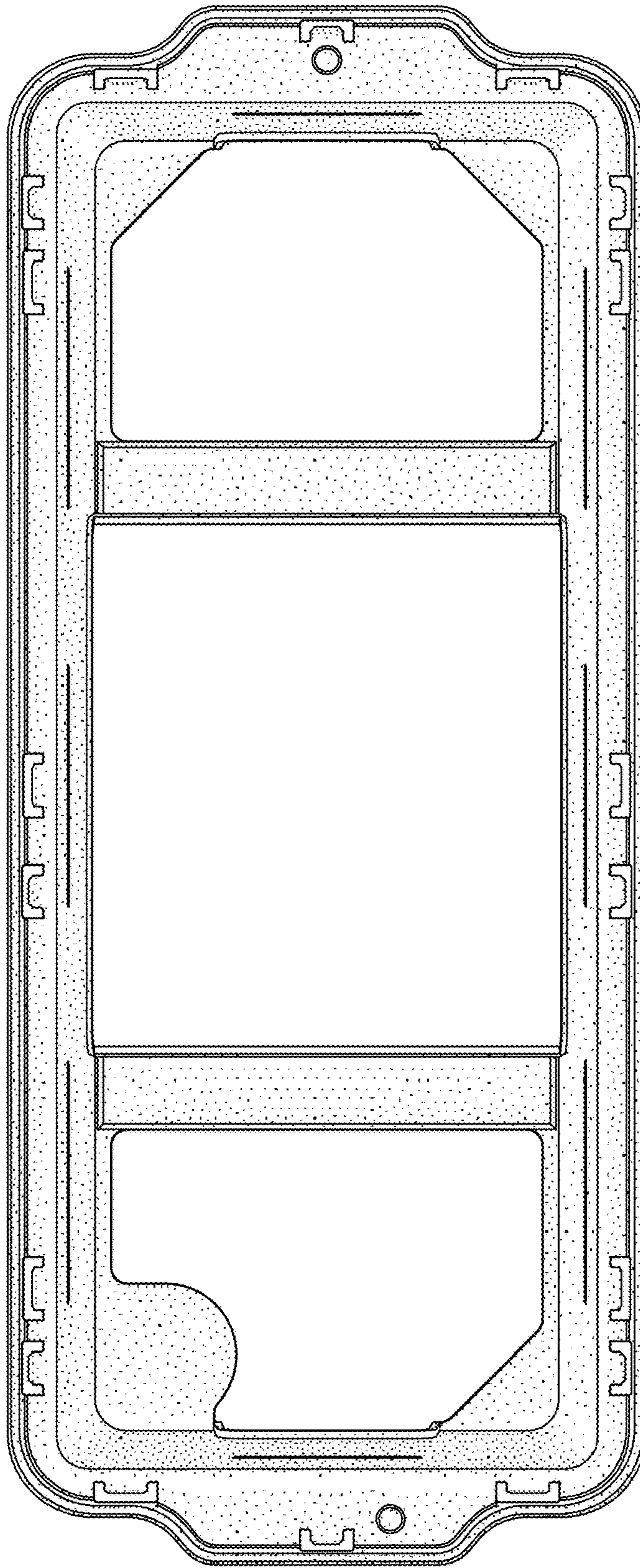


Figure 4

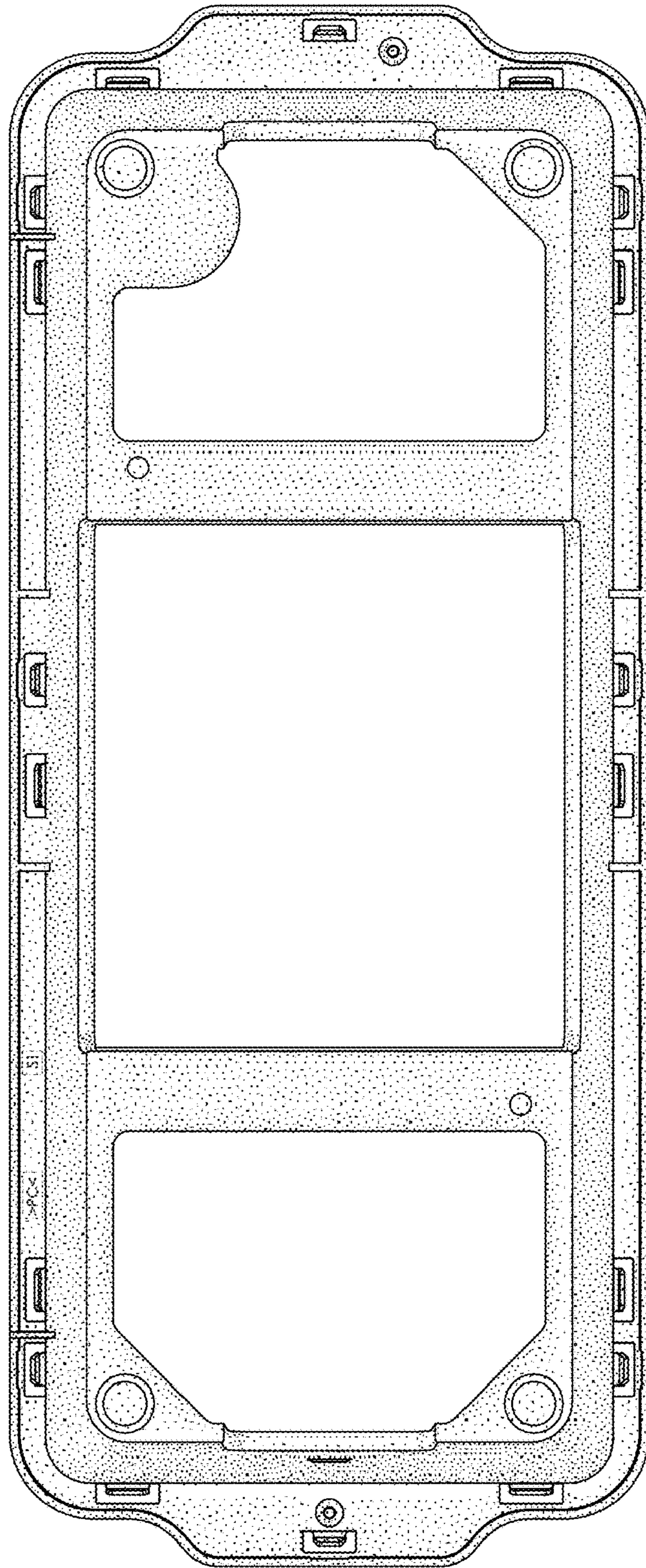


Figure 5

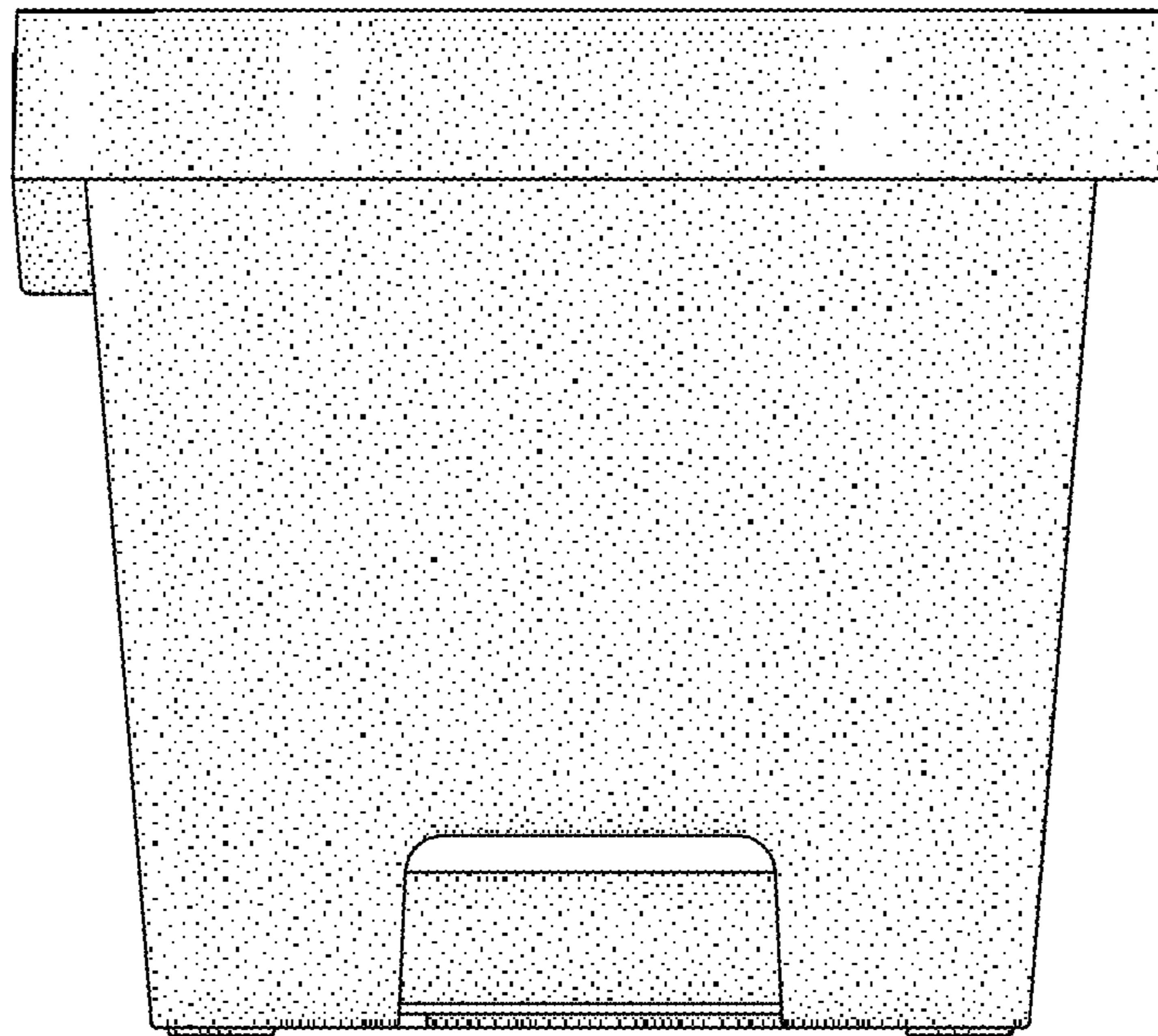


Figure 6

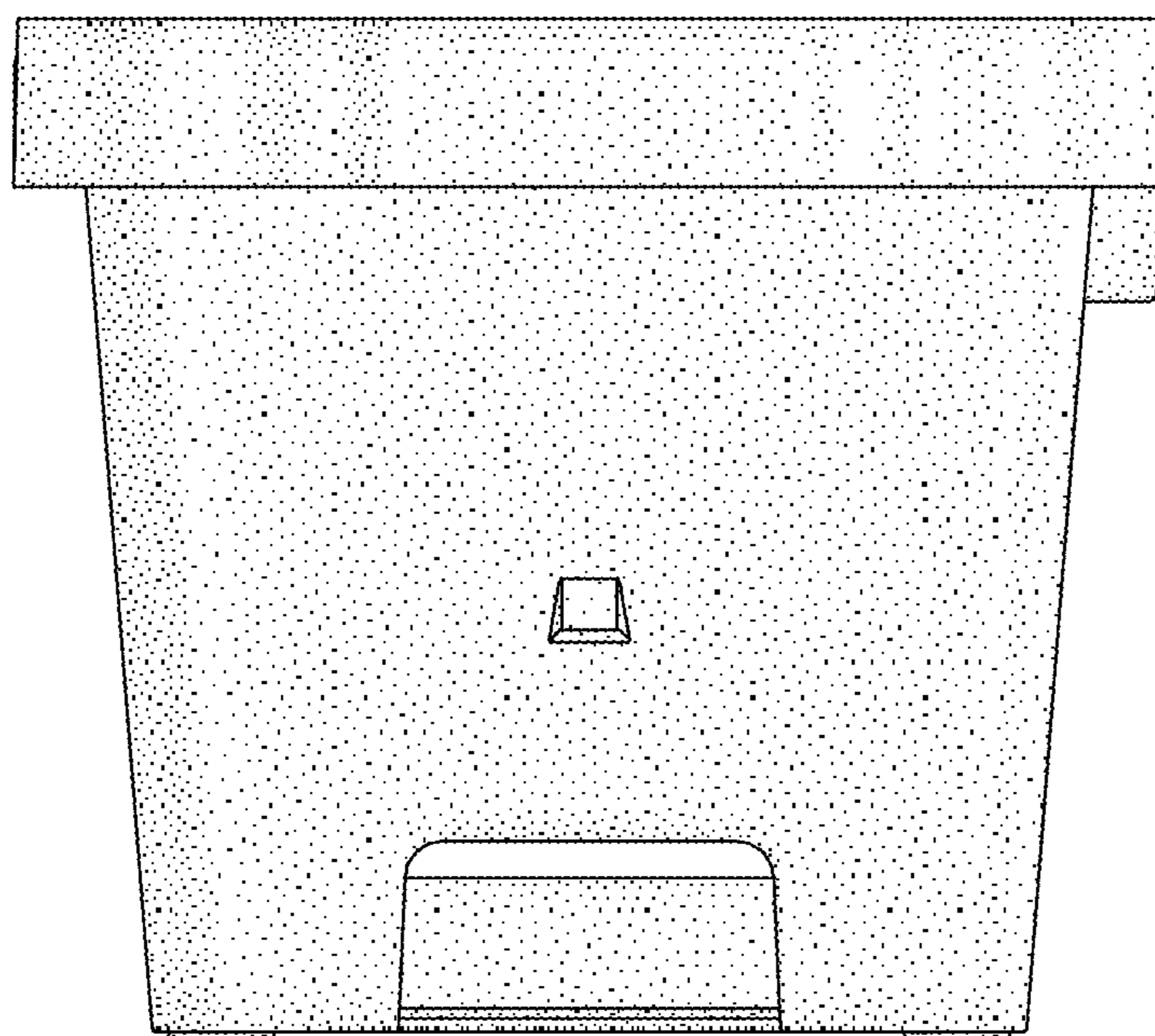


Figure 7

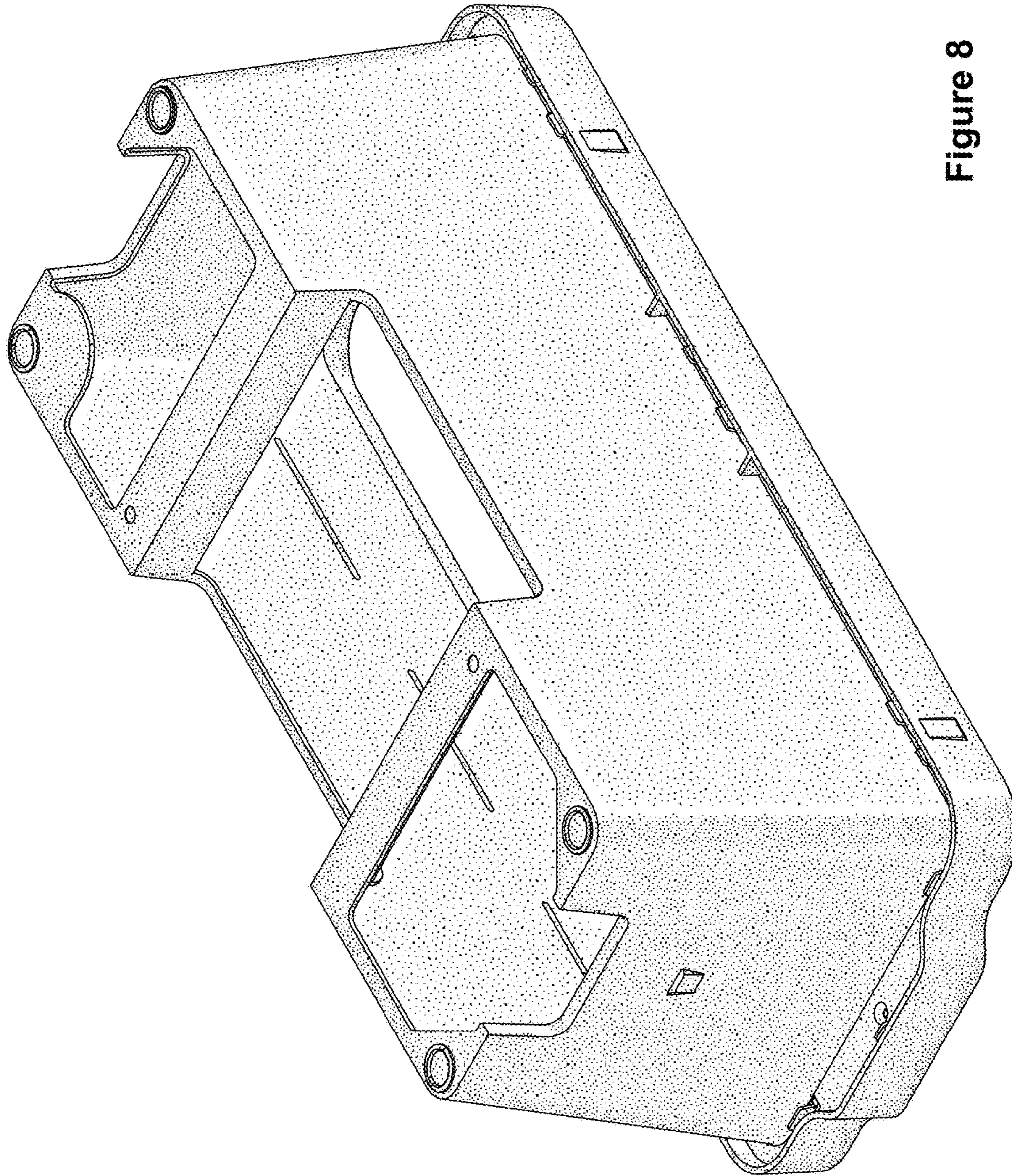


Figure 8

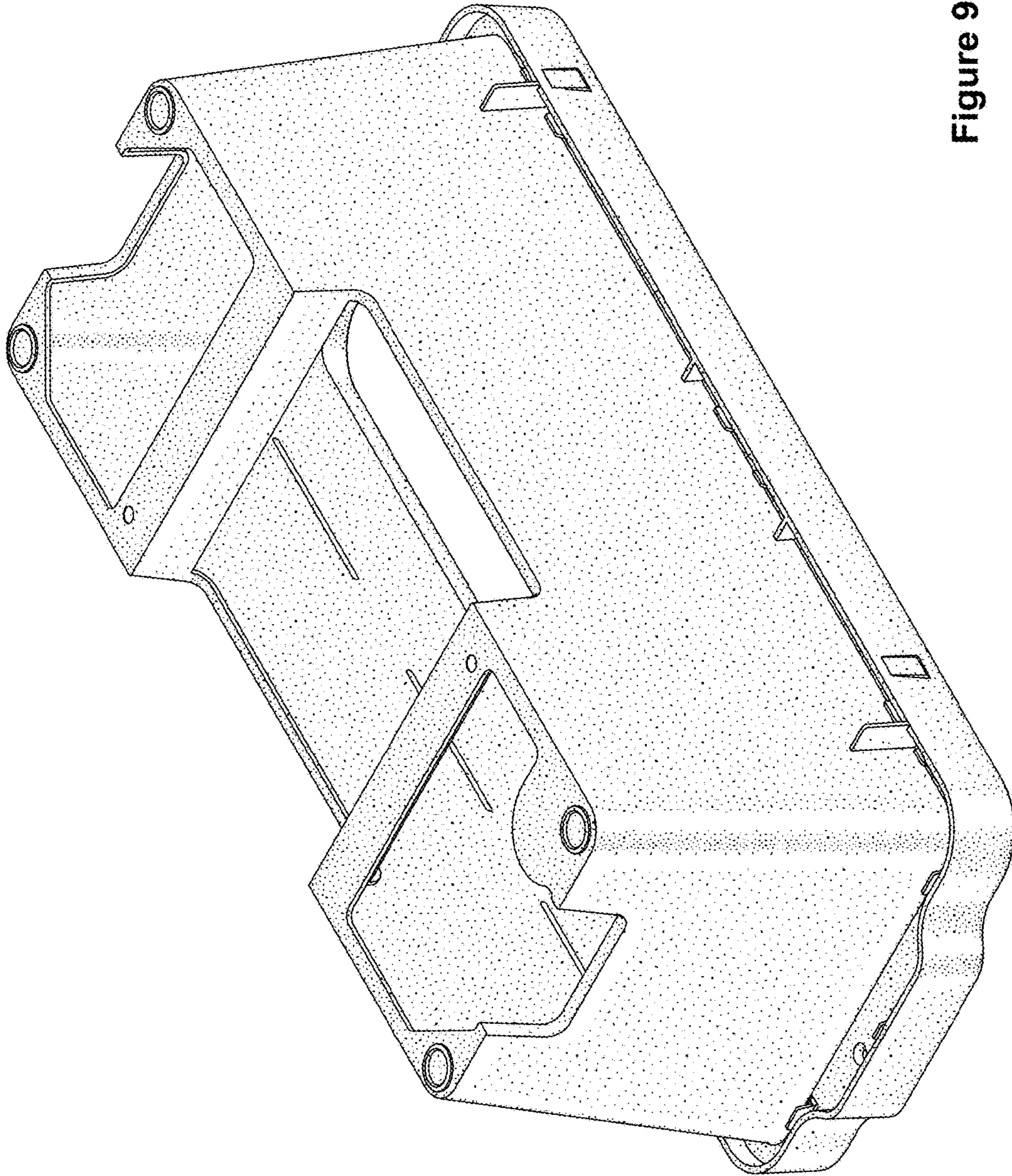


Figure 9