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# (12) United States Design Patent

Wang

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(54) **DUST BOX FOR CLEANING ROBOT**

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(72) Inventor: **Meng Wang**, Beijing (CN)
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(**) Term: **15 Years**
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USPC ..... **D32/31**
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CPC . A47L 9/10; A47L 9/102; A47L 9/106; A47L 9/108; A47L 9/12; A47L 9/122; A47L 9/16; A47L 9/1683; A47L 11/4013; A47L 2201/024
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

D286,912 S * 11/1986 Andersen ..... D24/224
8,677,661 B2 * 3/2014 Michels ..... B25H 3/02 40/313
8,875,888 B2 * 11/2014 Koenig ..... B65D 21/0223 206/508
9,320,398 B2 * 4/2016 Hussey ..... A47L 11/4041
(Continued)

FOREIGN PATENT DOCUMENTS

CN 306621098 S 6/2021
CN 306832418 S 9/2021
TW M482366 U 7/2014

OTHER PUBLICATIONS

Office Action issued in counterpart Taiwanese Patent Application No. 111302426 dated Sep. 29, 2022.

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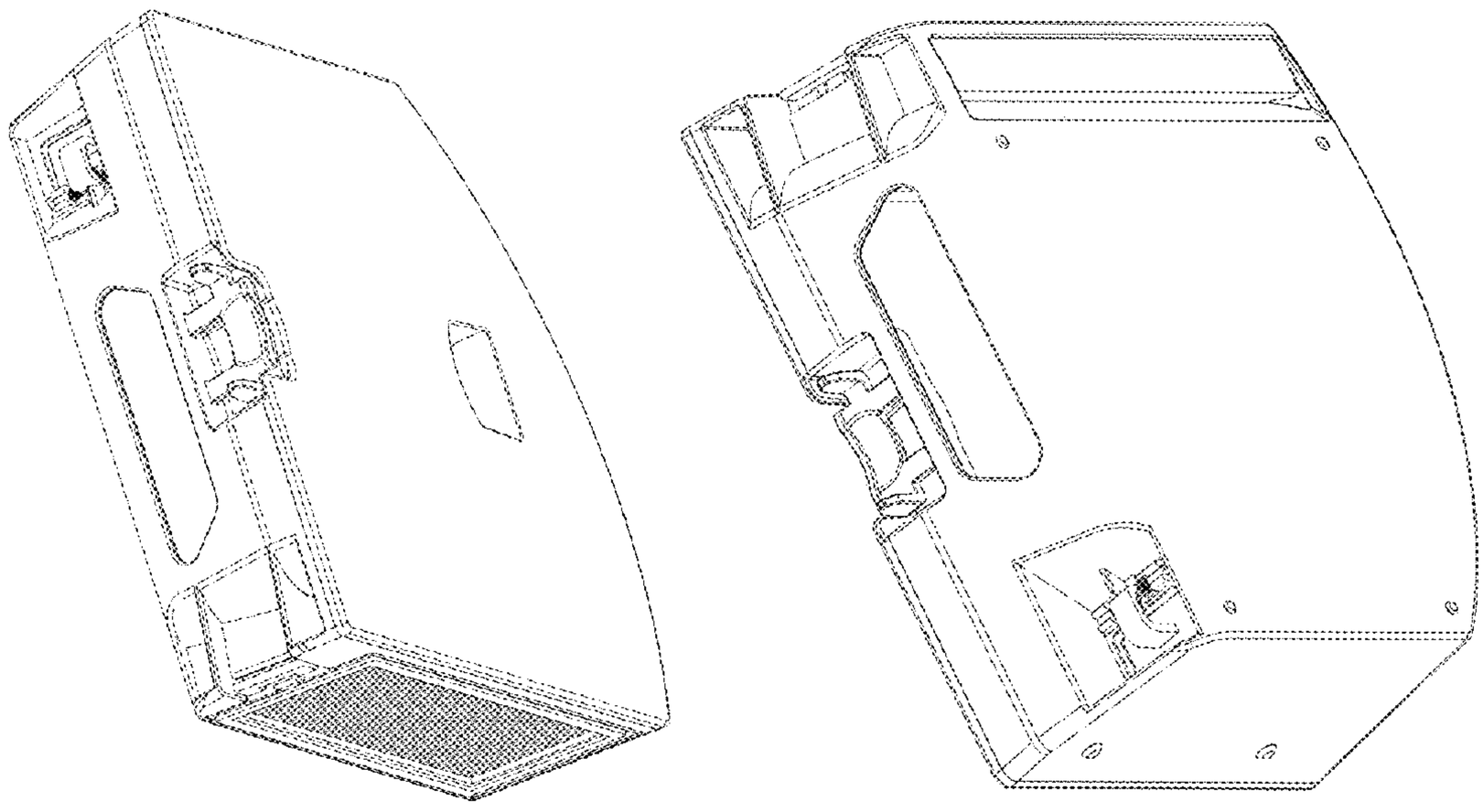
(57) **CLAIM**

The ornamental design for a dust box for cleaning robot, as shown and described.

**DESCRIPTION**

**1.1** is a front view of a first dust box for cleaning robot;
**1.2** is a back view thereof;
**1.3** is a left view thereof;
**1.4** is a right view thereof;
**1.5** is a top view thereof;
**1.6** is a bottom view thereof;
**1.7** is a front, left perspective view thereof;
**1.8** is a back, left perspective view thereof;
**1.9** is an inverted back, left perspective view thereof.
**2.1** is a front view of a second dust box for cleaning robot;
**2.2** is a back view thereof;
**2.3** is a left view thereof;
**2.4** is a right view thereof;
**2.5** is a top view thereof;
**2.6** is a bottom view thereof;
**2.7** is a front, left perspective view thereof;
**2.8** is a back, left perspective view thereof; and
**2.9** is an inverted back, left perspective view thereof.

**1 Claim, 18 Drawing Sheets**



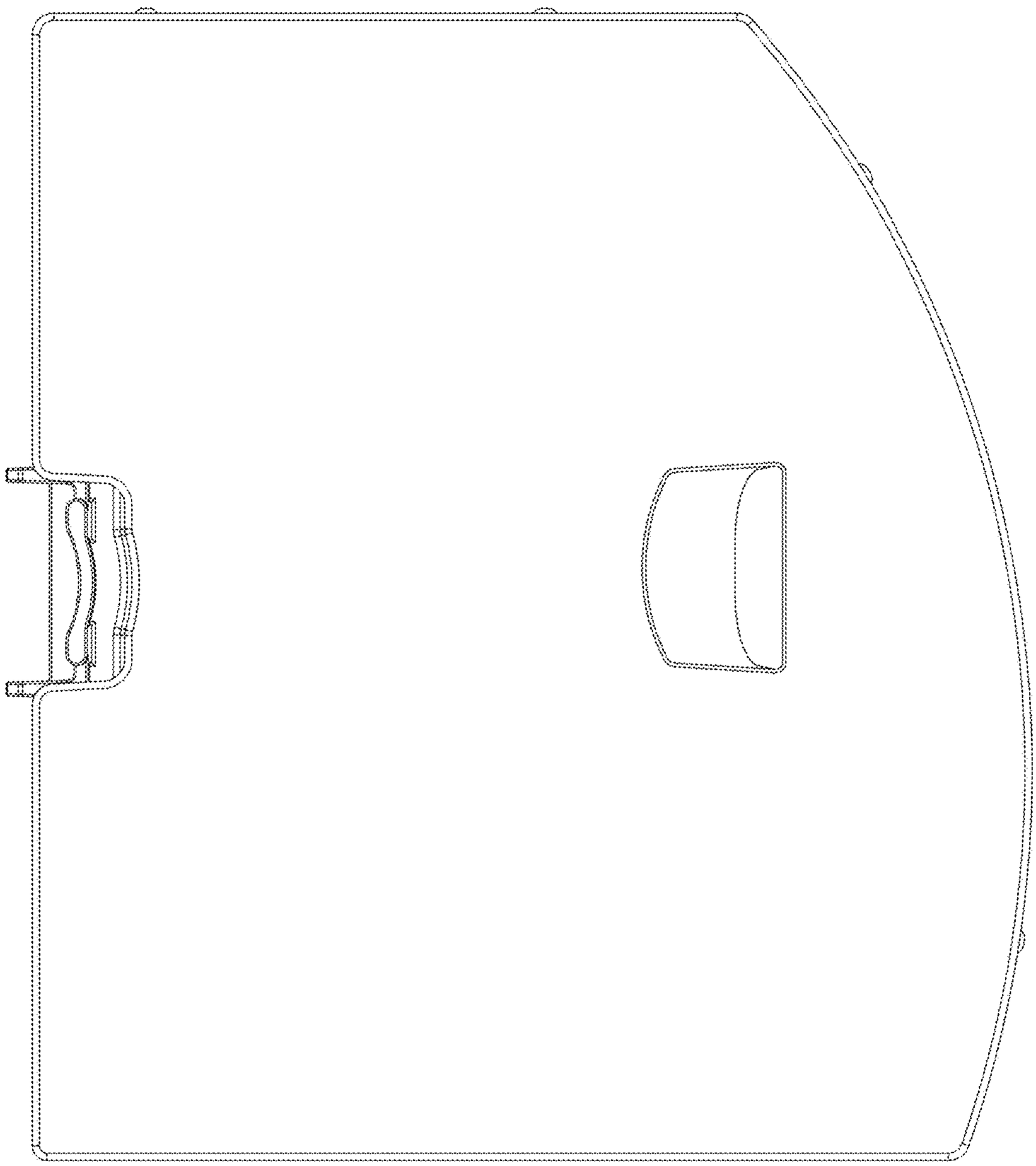
(56) **References Cited**

U.S. PATENT DOCUMENTS

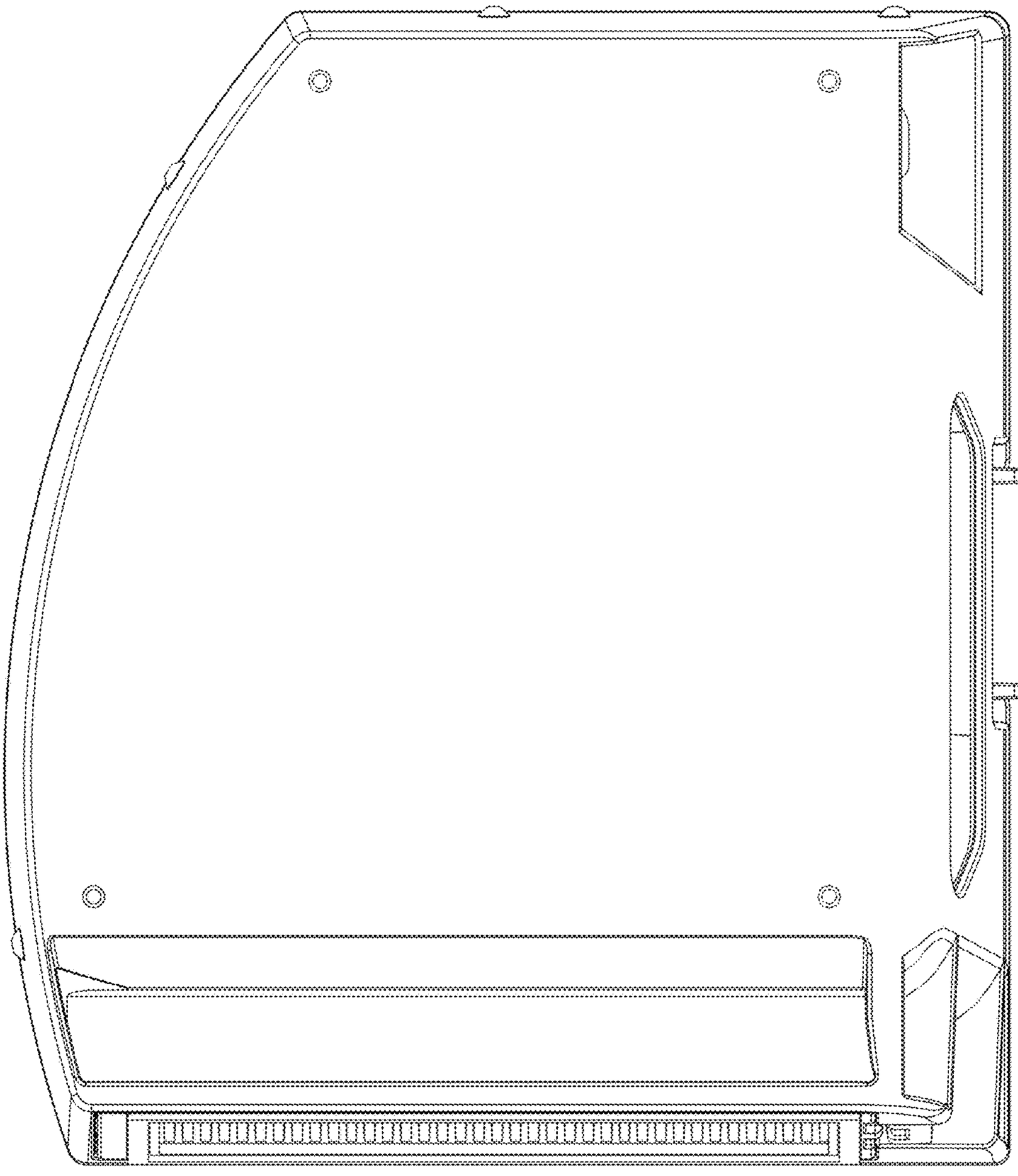
| | | | | |
|---|---|---|---|---|
| 9,549,649 | B2 * | 1/2017 | Baek | A47L 9/1472 |
| 9,687,127 | B2 * | 6/2017 | Oka | A47L 9/122 |
| 9,788,698 | B2 * | 10/2017 | Morin | A47L 9/106 |
| 10,292,554 | B2 * | 5/2019 | Lewis | A47L 9/1463 |
| 10,335,001 | B1 * | 7/2019 | Hu | A47L 9/20 |
| 10,485,394 | B2 * | 11/2019 | Hu | A47L 9/1409 |
| D887,658 | S * | 6/2020 | Smith, Jr. | D32/31 |
| 10,779,695 | B2 * | 9/2020 | Burbank | A47L 9/1481 |
| D919,913 | S * | 5/2021 | Grebing | D32/31 |
| 11,612,295 | B2 * | 3/2023 | Li | A47L 11/4097 15/49.1 |
| 2005/0015920 | A1 * | 1/2005 | Kim | A47L 9/1409 15/352 |
| 2010/0313912 | A1 * | 12/2010 | Han | A47L 11/4094 134/21 |
| 2019/0142233 | A1 * | 5/2019 | Swett | A47L 9/1409 15/347 |
| 2019/0298120 | A1 * | 10/2019 | Zhu | A47L 9/1409 |
| 2020/0359868 | A1 * | 11/2020 | Bo | A47L 9/106 |
| 2020/0359871 | A1 * | 11/2020 | Feng | A47L 11/4066 |
| 2020/0367714 | A1 * | 11/2020 | Wang | A47L 11/4011 |
| 2021/0127923 | A1 * | 5/2021 | Liang | A47L 11/4011 |
| 2022/0061608 | A1 * | 3/2022 | Murad | A61L 9/20 |
| 2022/0322907 | A1 * | 10/2022 | Tang | A47L 5/22 |
| 2022/0338690 | A1 * | 10/2022 | Tang | A47L 11/4013 |
| 2023/0069071 | A1 * | 3/2023 | Lu | A47L 11/4025 |

* cited by examiner

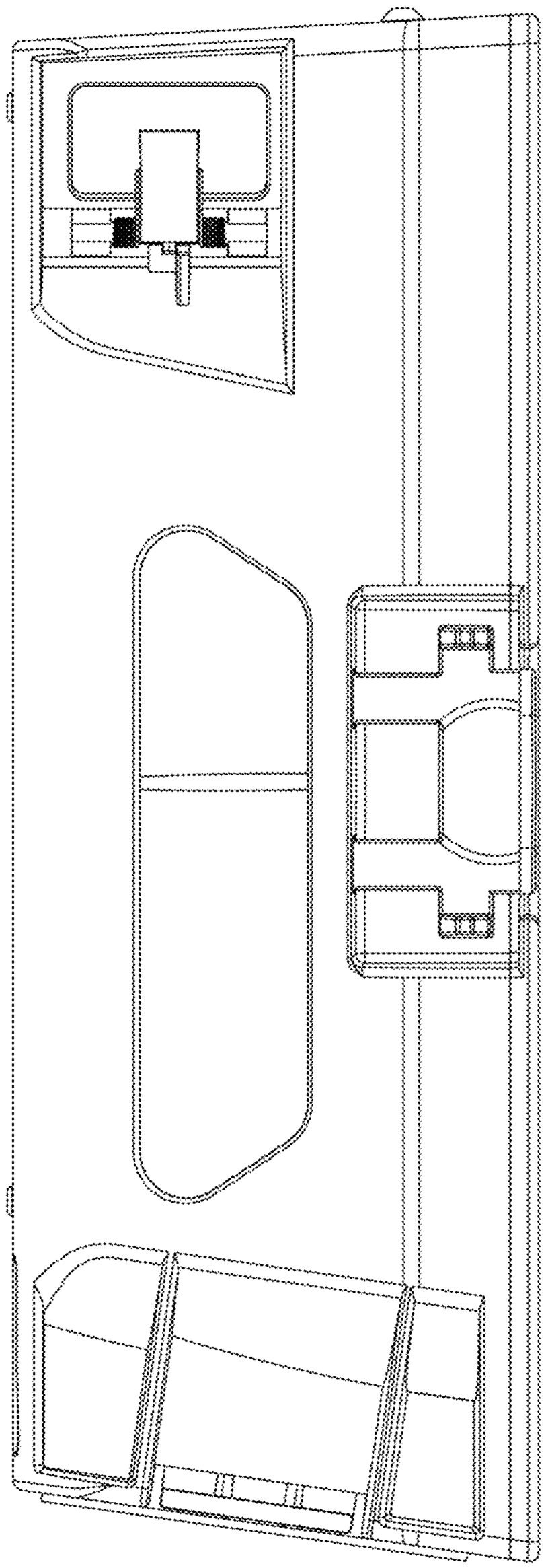
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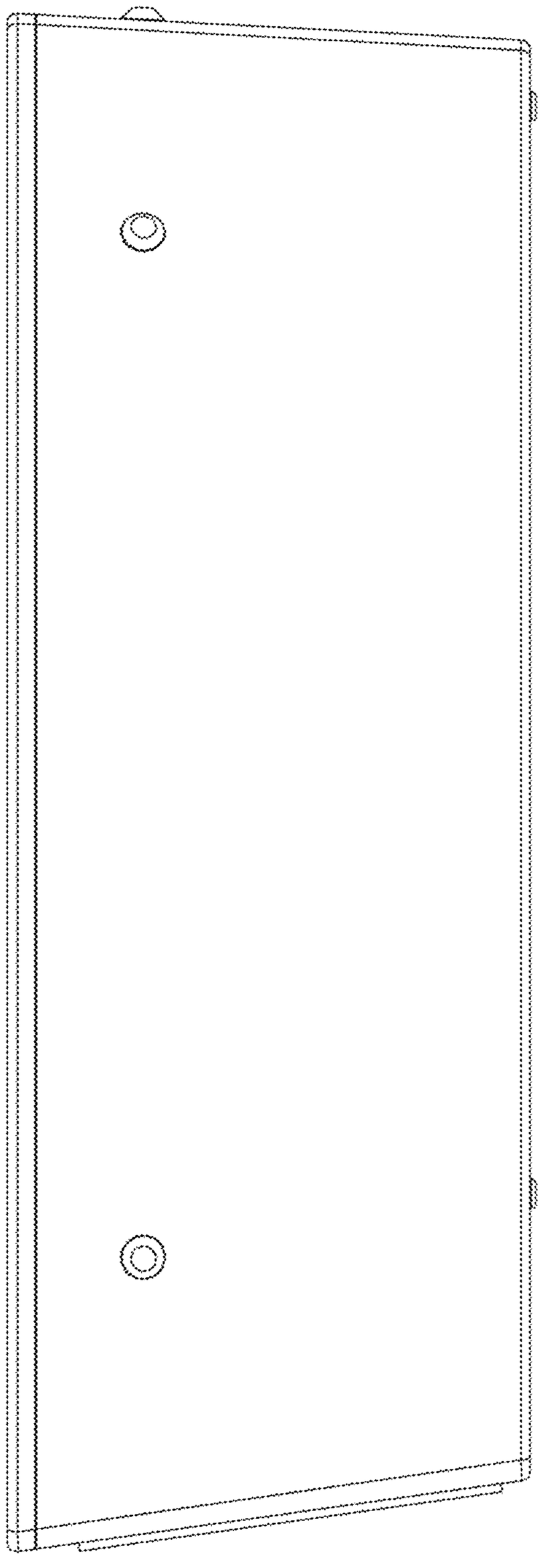
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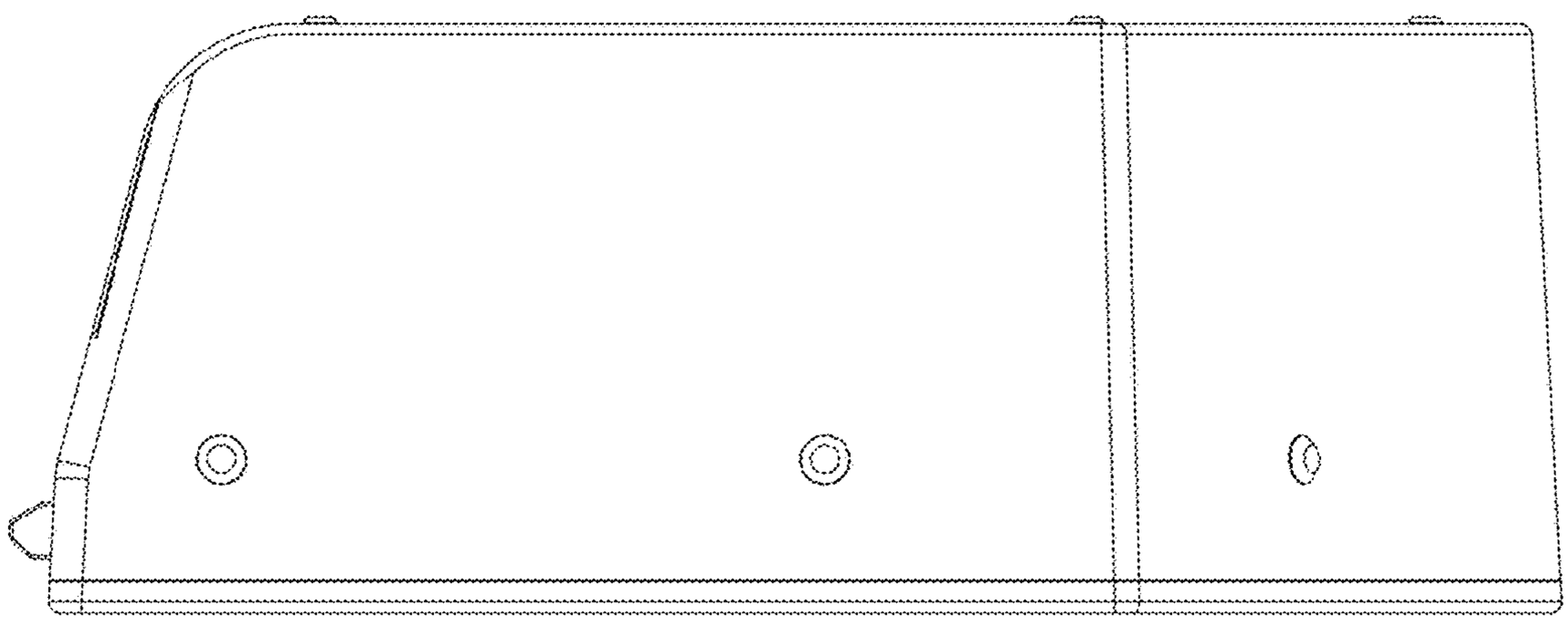
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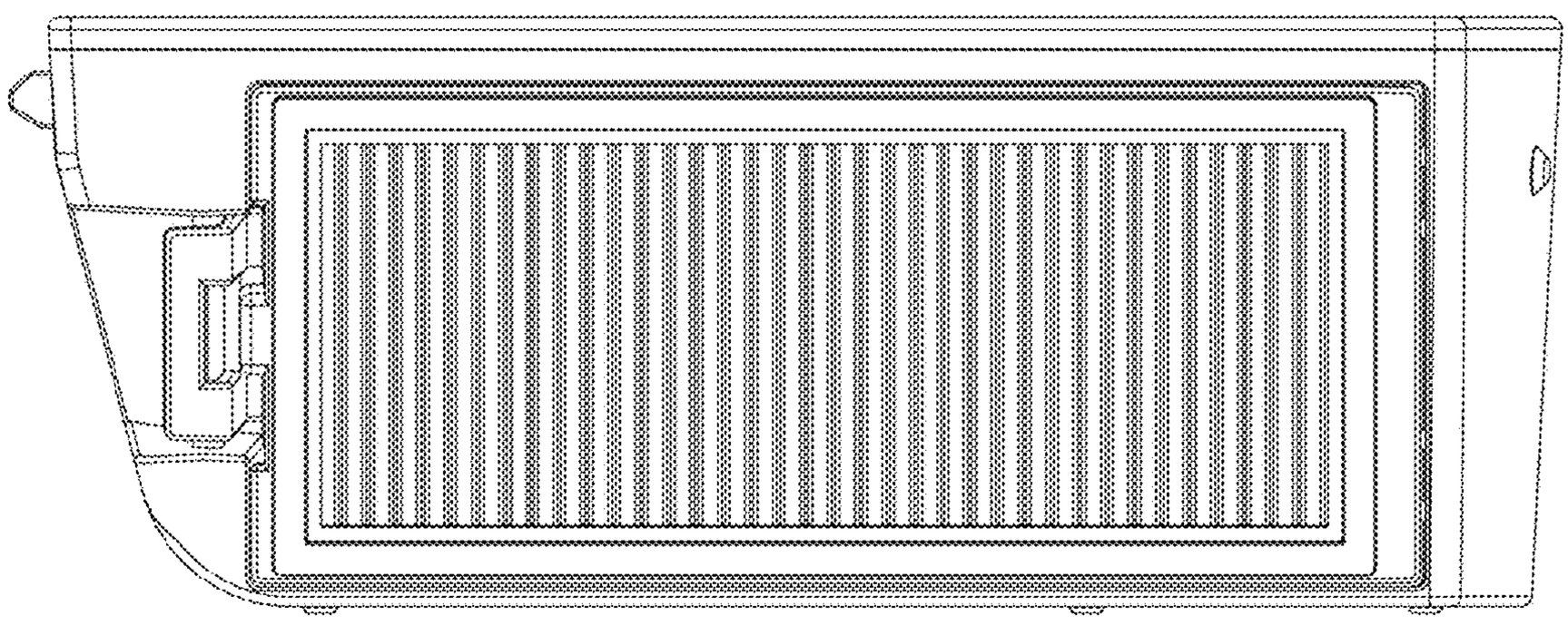
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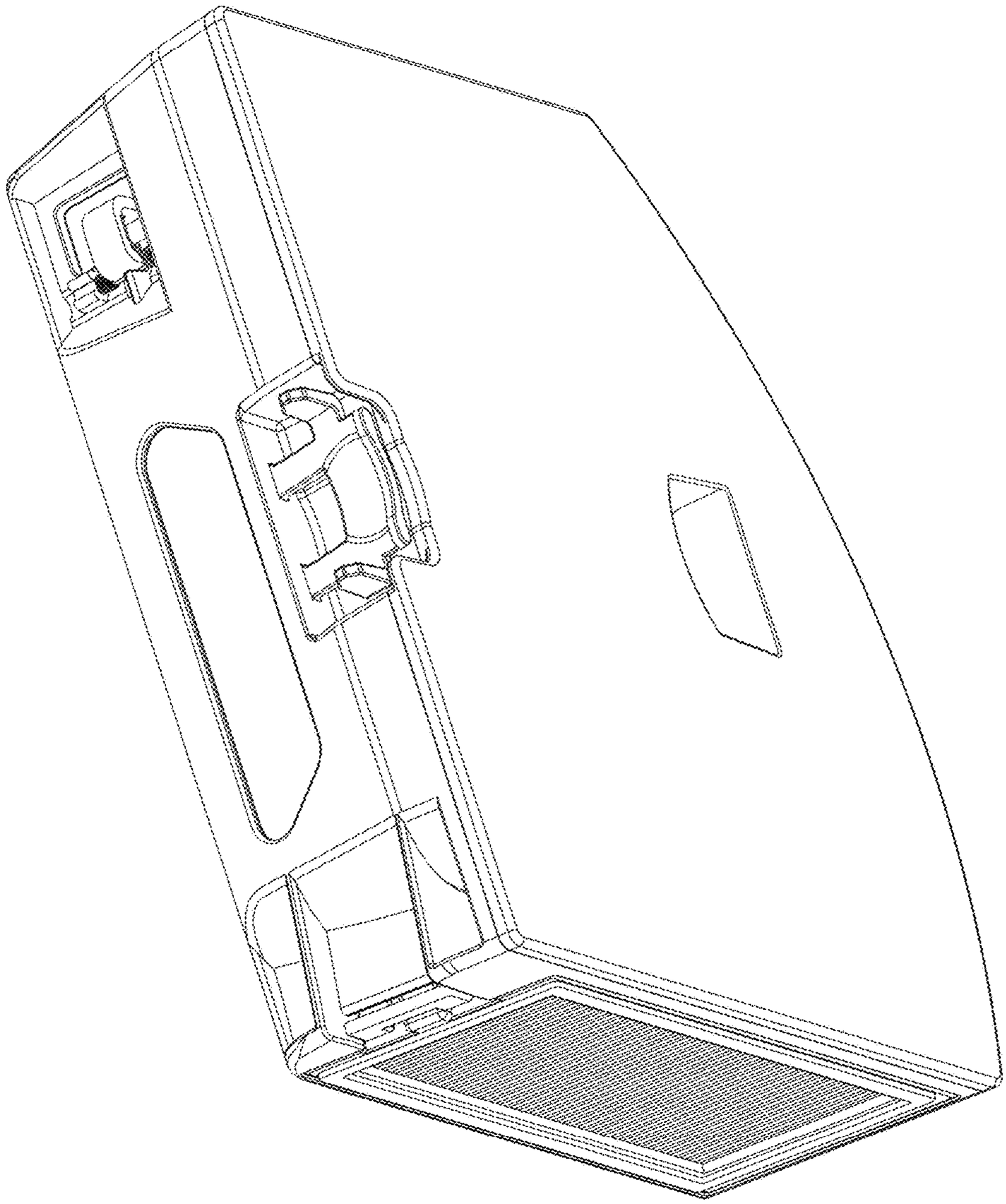
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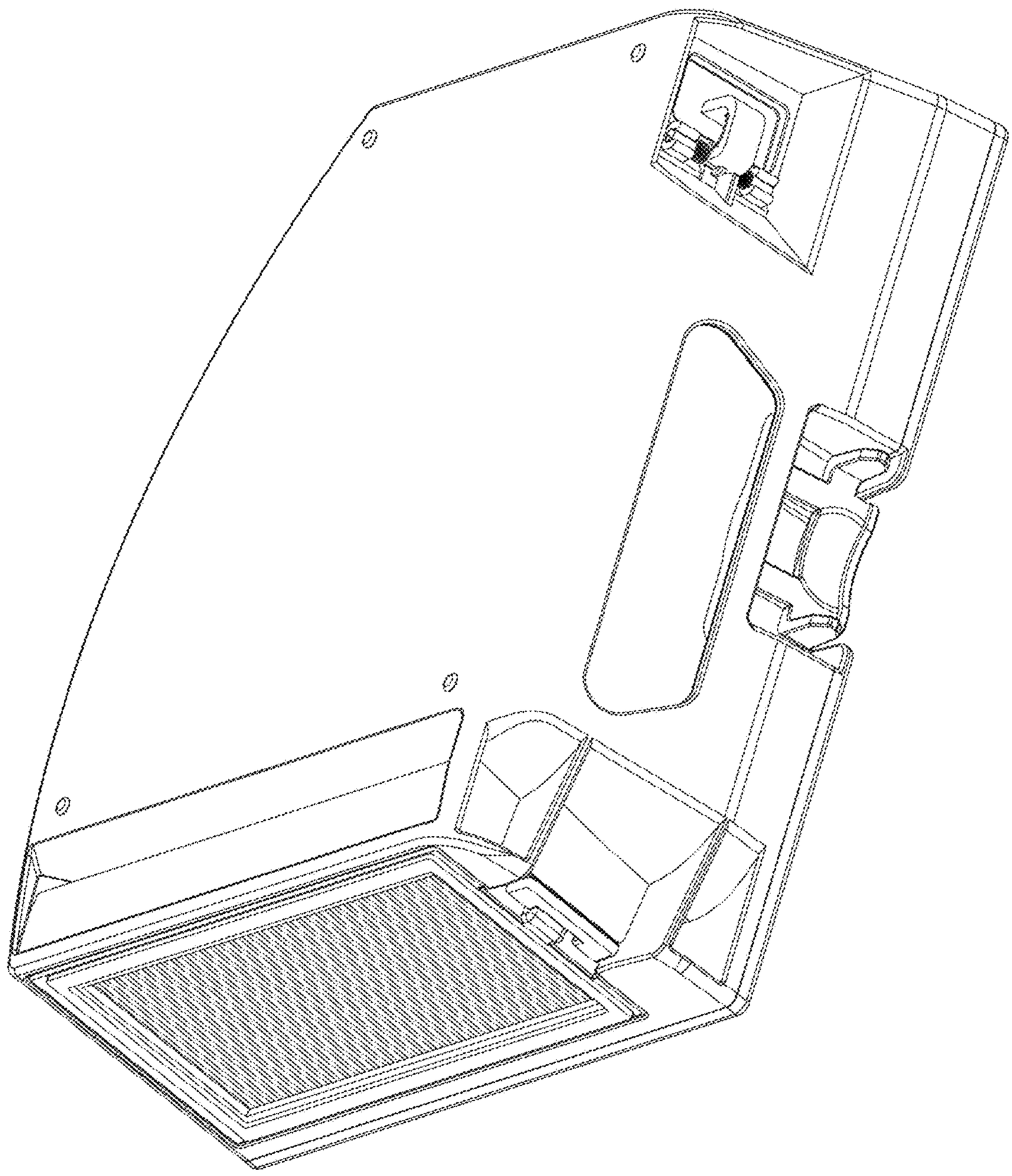
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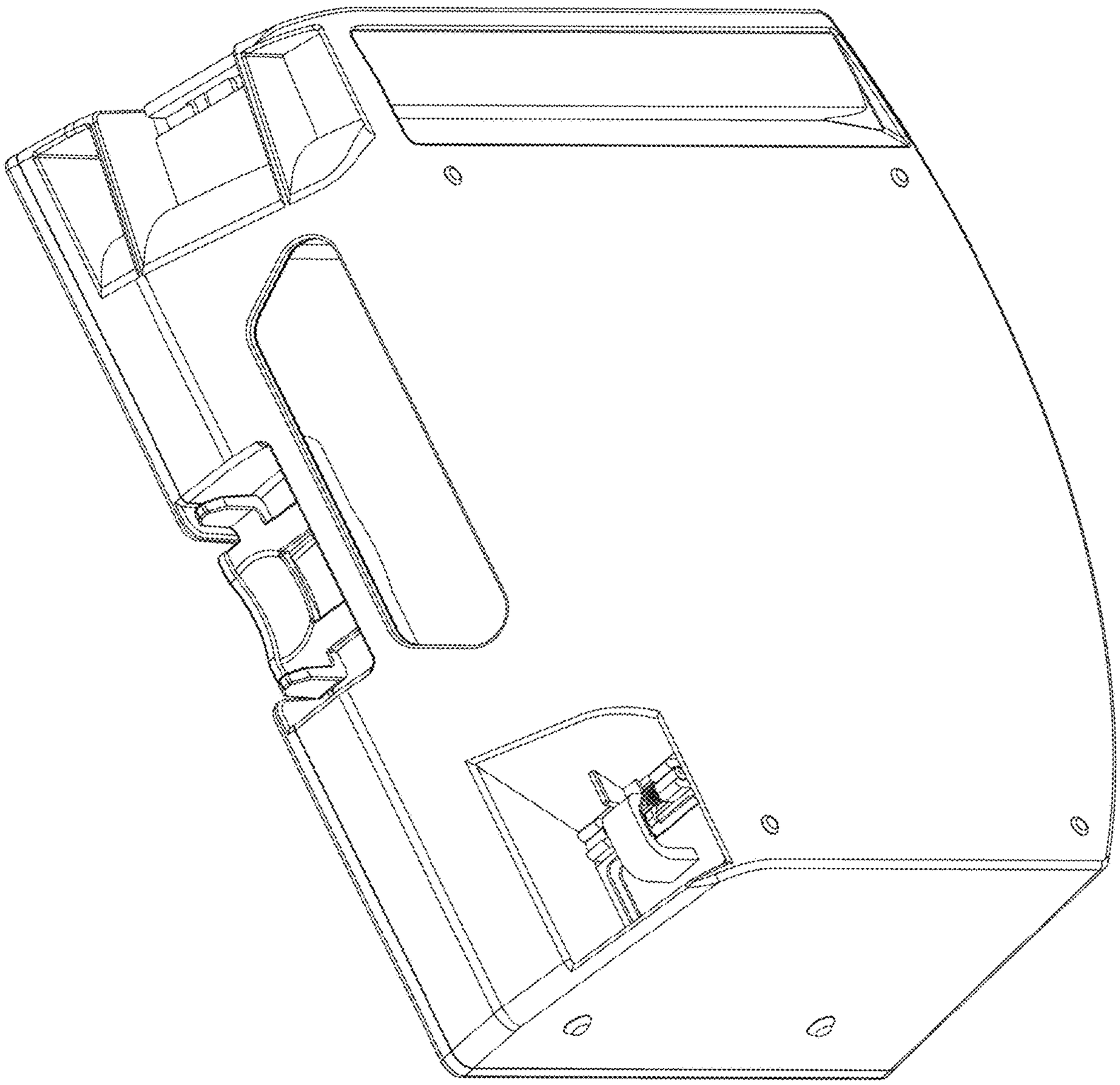
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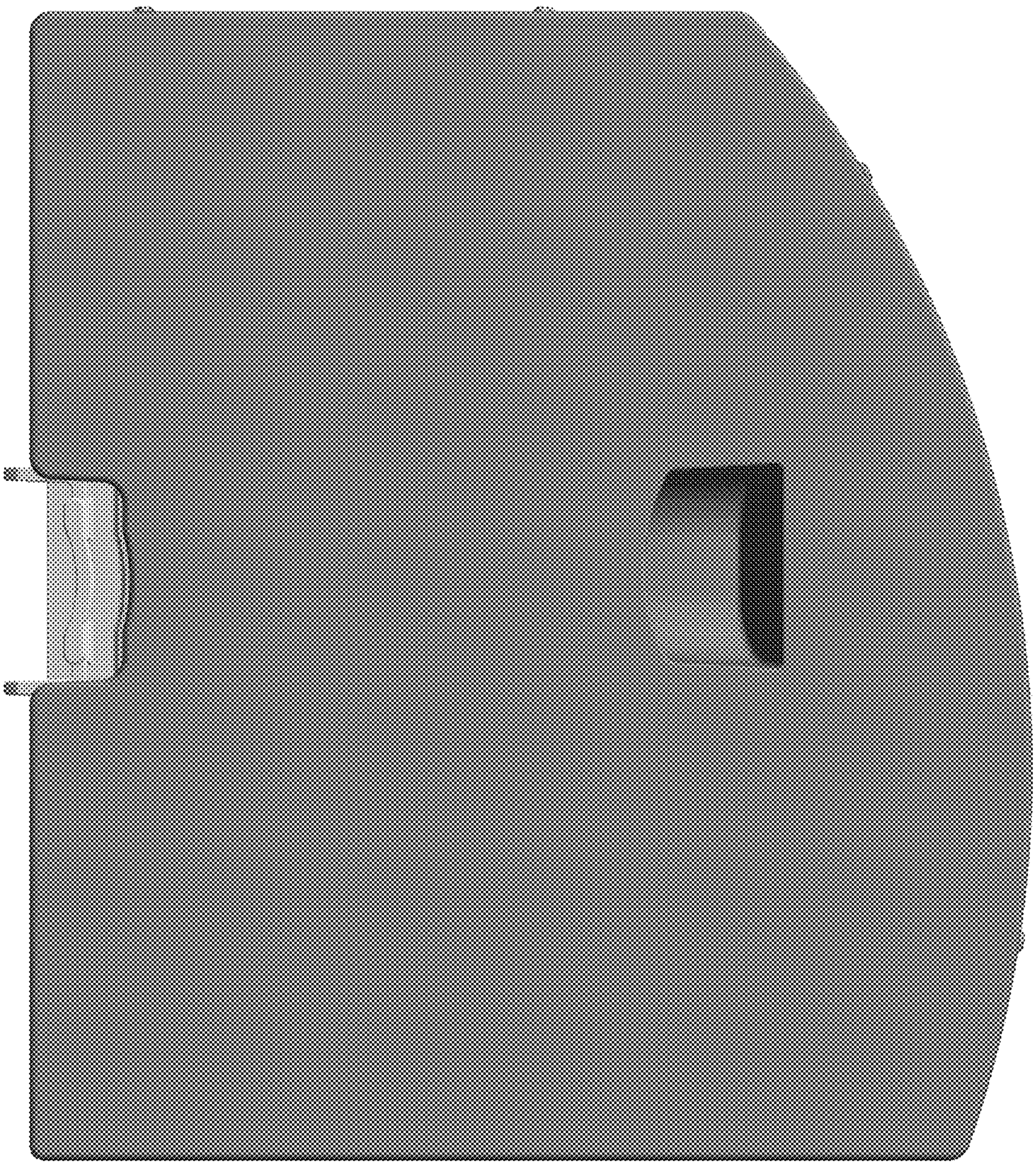
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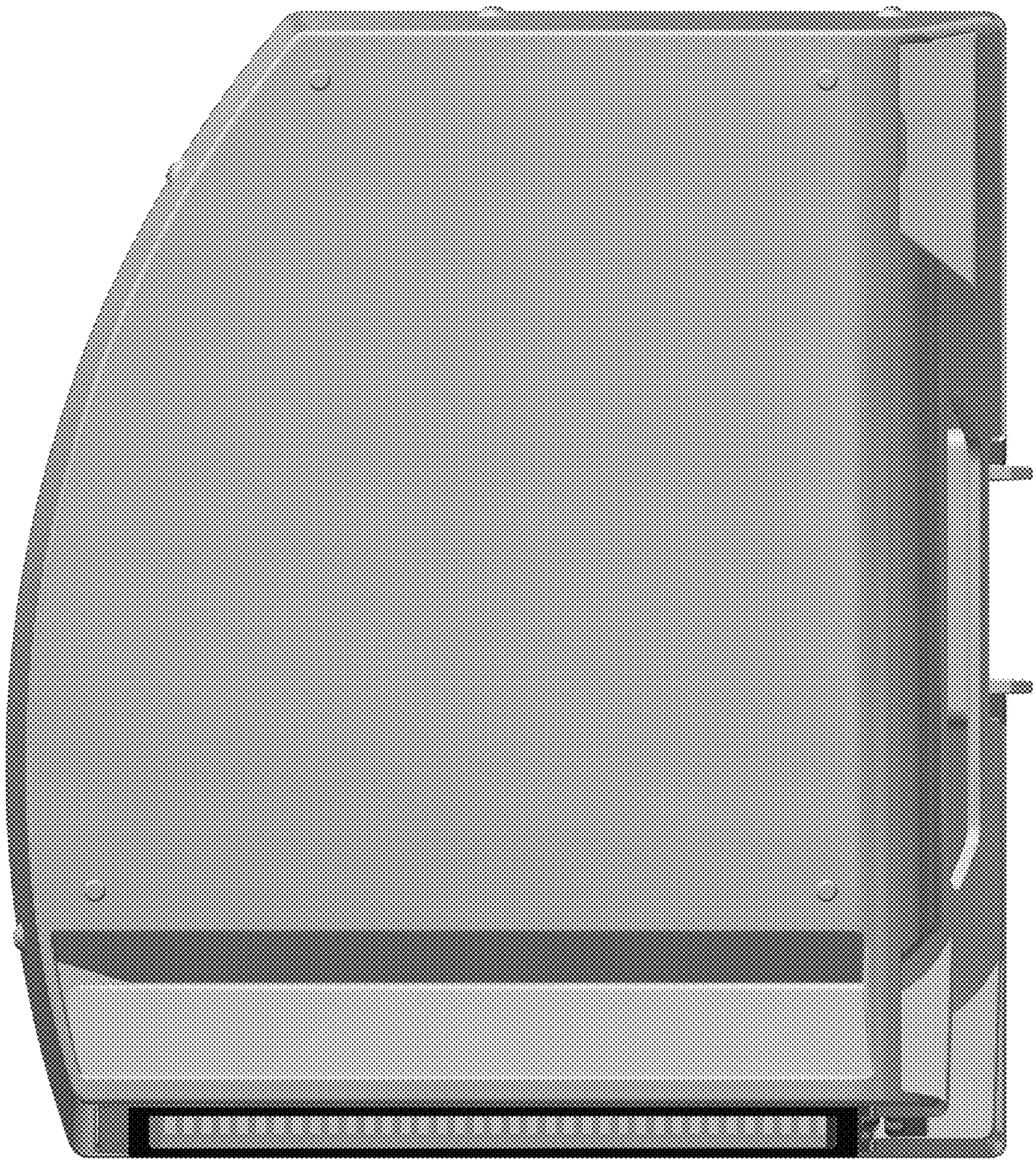
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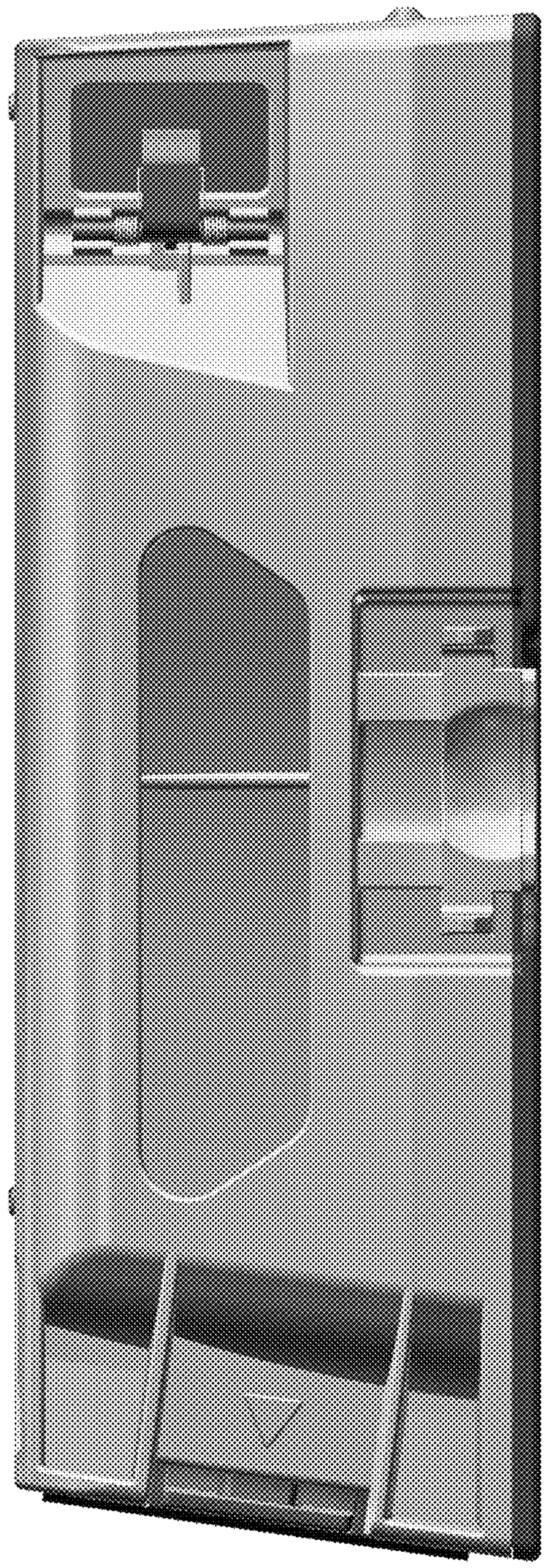
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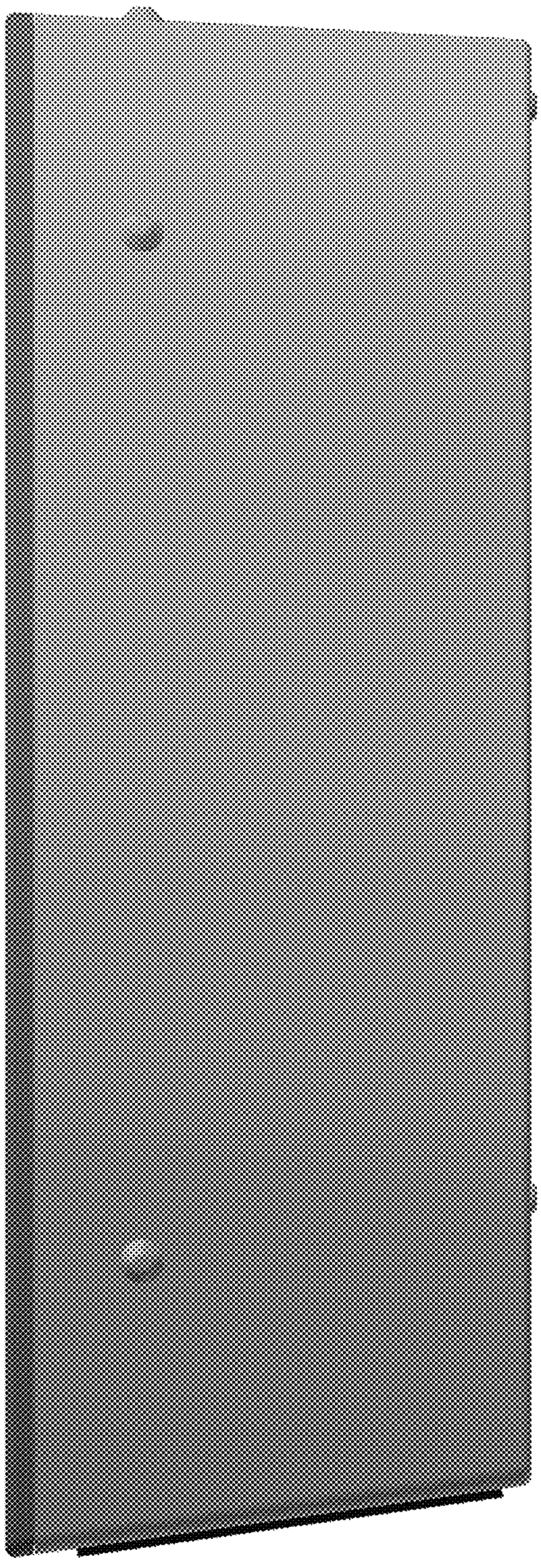
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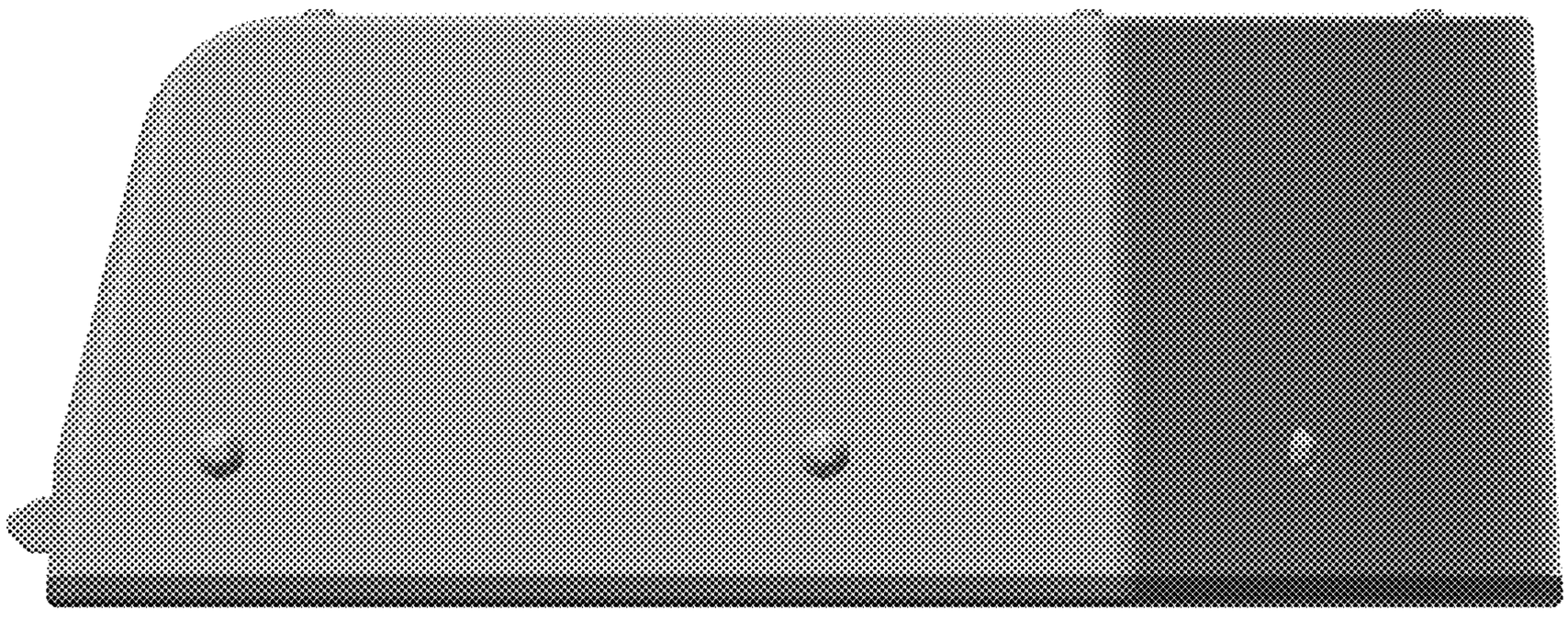
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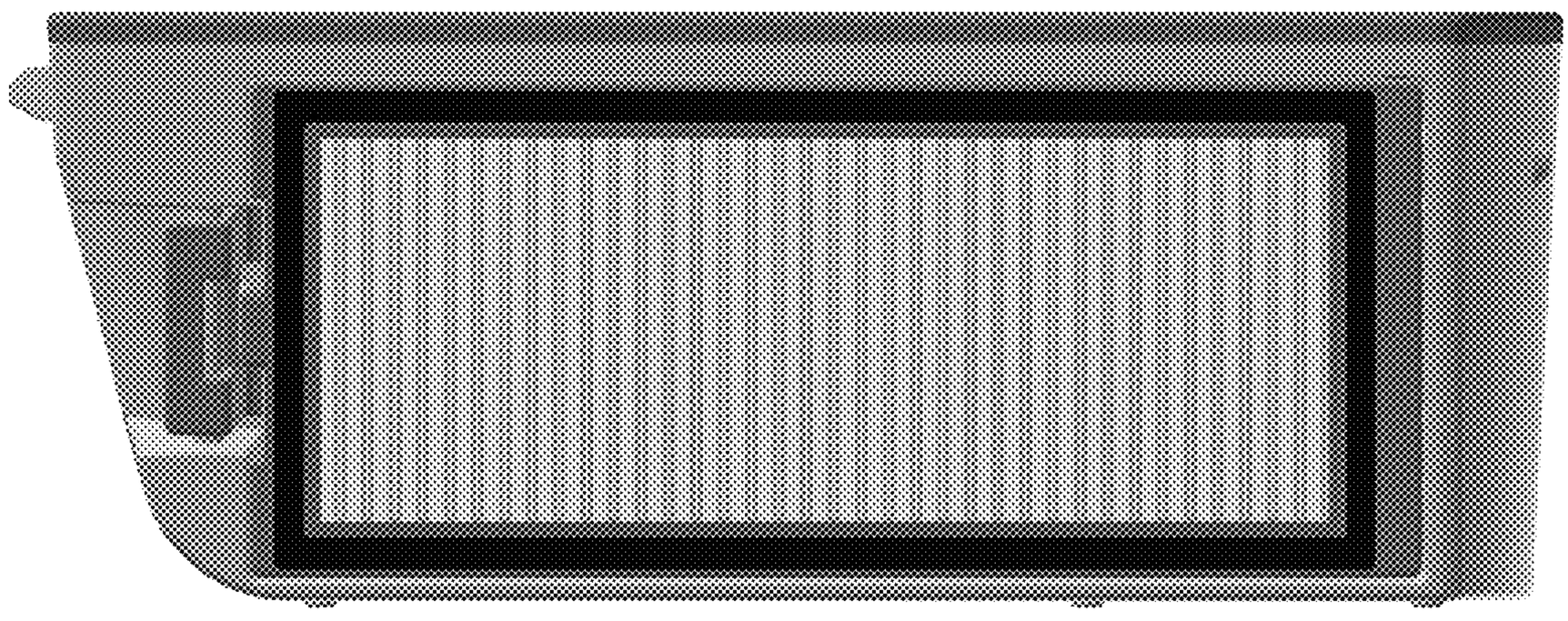
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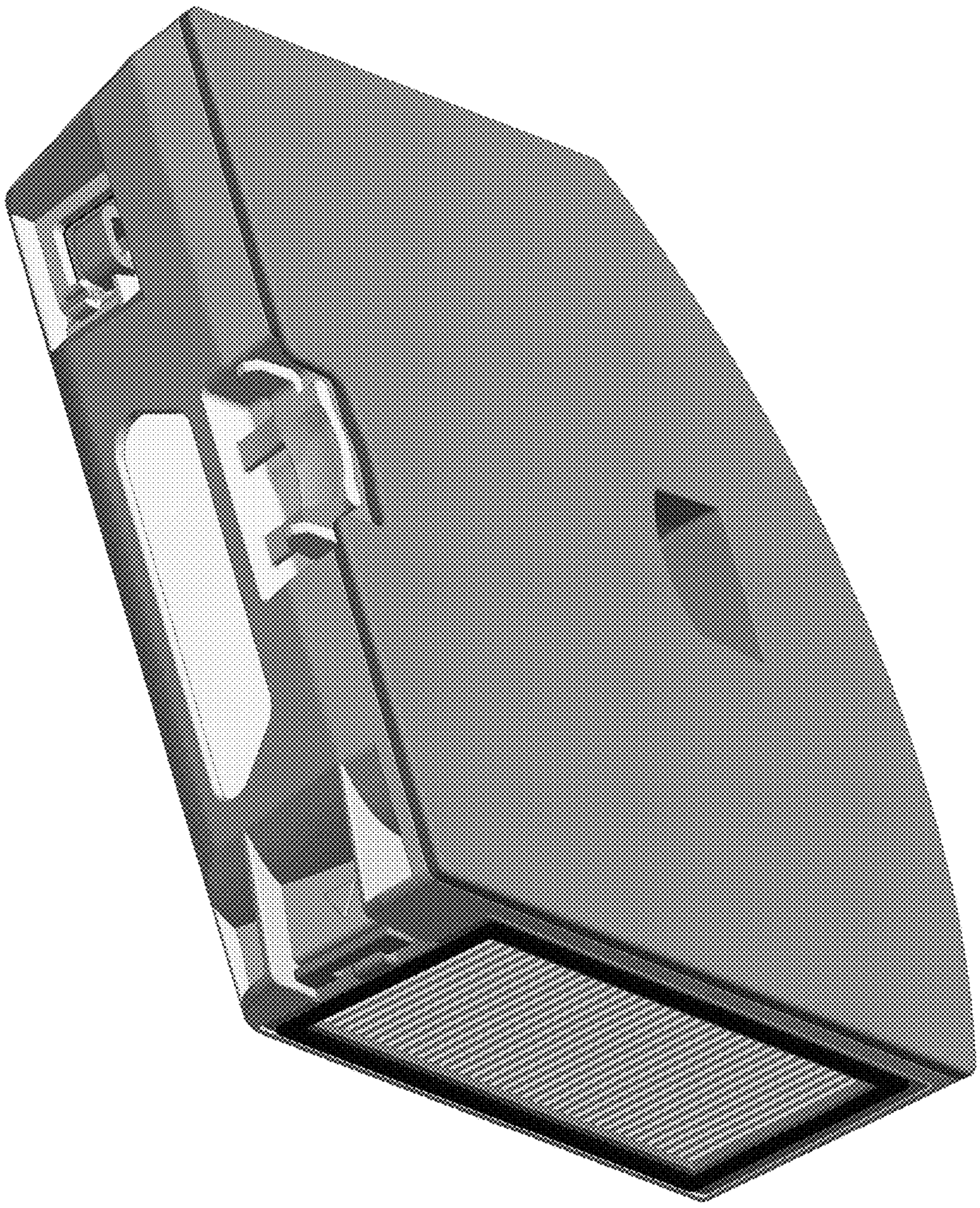
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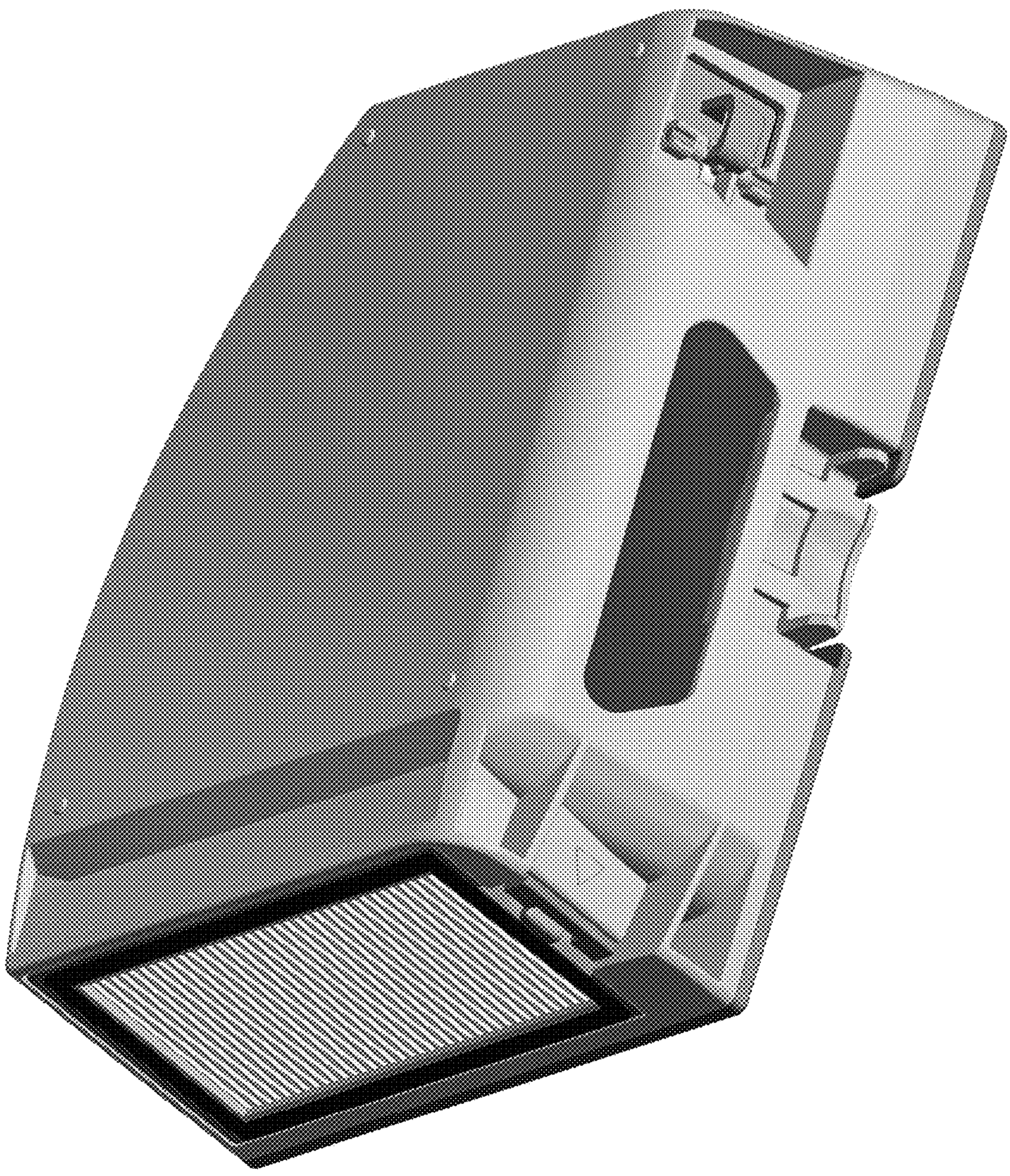
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2.7



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2.9

