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United States Design Patent

Ahr et al.

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(54) MULTI TUBE CARRIER

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USPC D24/229

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USPC D24/103, 104, 121, 216, 217, 219, 223,  
D24/224, 227, 229; D10/81;  
D9/756–760; D3/203.1–203.3, 203.7,  
D3/203.8  
CPC B01L 9/06; B01L 9/65; B01L 9/00; B01L  
3/5025; B01L 3/508; B01L 3/5082  
See application file for complete search history.

(56) References Cited

U.S. PATENT DOCUMENTS

|           |    |   |         |            |                       |
|-----------|----|---|---------|------------|-----------------------|
| D413,677  | S  | * | 9/1999  | Dumitrescu | D24/227               |
| D417,009  | S  | * | 11/1999 | Boyd       | D24/227               |
| D420,747  | S  | * | 2/2000  | Dumitrescu | D24/227               |
| D428,497  | S  | * | 7/2000  | Lapeus     | D24/227               |
| 7,011,220 | B2 | * | 3/2006  | Deye       | F42B 4/20<br>211/60.1 |
| D603,524  | S  | * | 11/2009 | Suzuki     | D24/229               |

|          |   |   |         |             |         |
|----------|---|---|---------|-------------|---------|
| D632,402 | S | * | 2/2011  | Sattler     | D24/224 |
| D634,441 | S | * | 3/2011  | Sattler     | D24/224 |
| D674,507 | S | * | 1/2013  | Suzuki      | D24/229 |
| D675,338 | S | * | 1/2013  | Suzuki      | D24/229 |
| D812,244 | S | * | 3/2018  | Shanafelter | D24/230 |
| D837,401 | S | * | 1/2019  | Gardner     | D24/230 |
| D937,435 | S | * | 11/2021 | Rai         | D24/230 |
| D975,313 | S | * | 1/2023  | Tanaka      | D24/226 |

(Continued)

FOREIGN PATENT DOCUMENTS

CN 202230289791.X \* 3/2023

OTHER PUBLICATIONS

Multichem Tube Cartridge, Online, Published date unknown, Retrieved on Jun. 25, 2024 from URL: <https://www.technopathclinicaldiagnostics.com/products/quality-control-materials/immunology/multichem-p-for-abbott-alinity/>.\*

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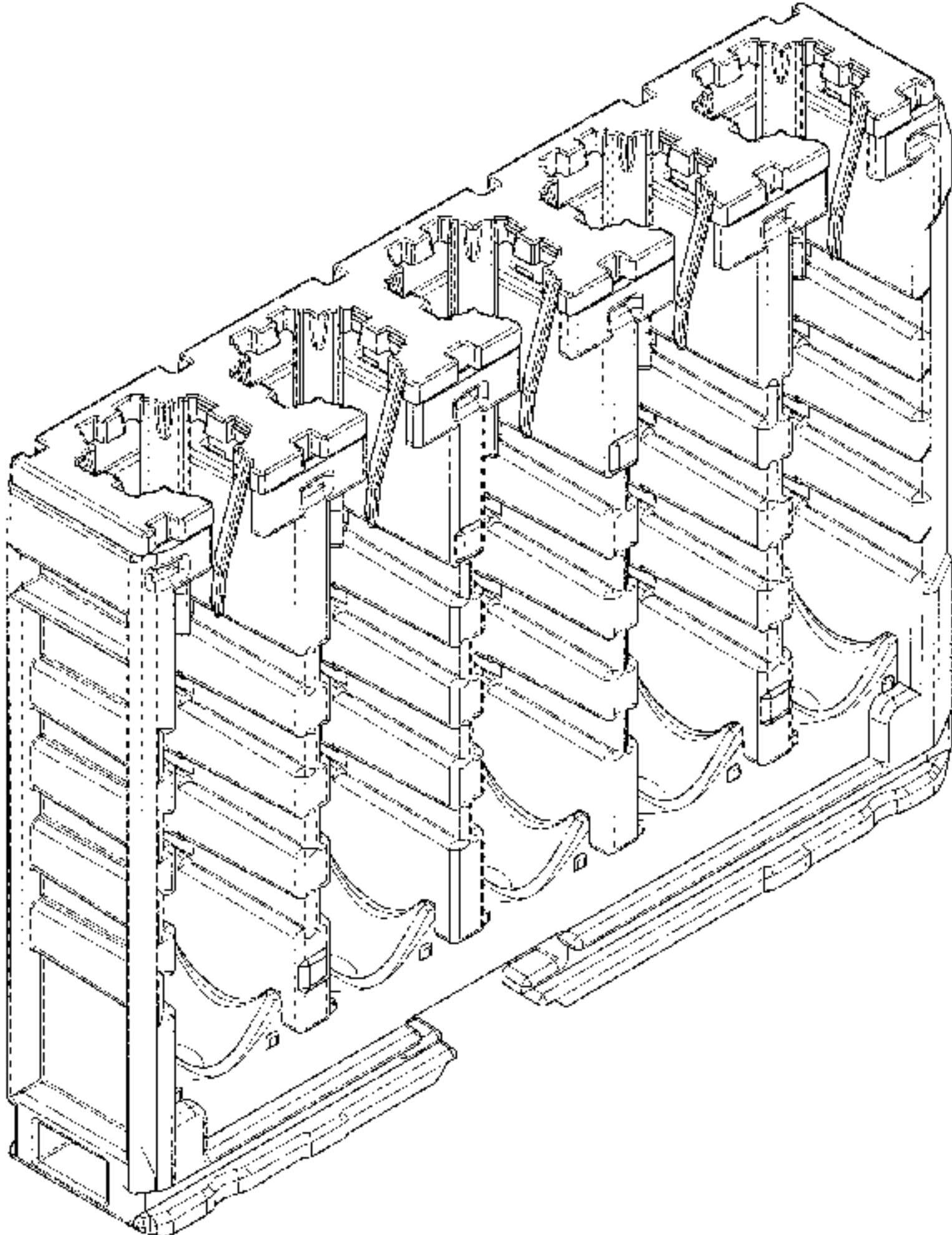
(57) CLAIM

The ornamental design for a multi tube carrier, as shown and described.

DESCRIPTION

FIG. 1 is a perspective view of a multi tube carrier showing our new design;  
FIG. 2 is a first side view thereof;  
FIG. 3 is a second side view thereof;  
FIG. 4 is a top view thereof;  
FIG. 5 is a bottom view thereof;  
FIG. 6 is a front view thereof; and,  
FIG. 7 is a rear view thereof.  
The broken lines depict portions of the multi tube carrier that form no part of the claimed design.

1 Claim, 7 Drawing Sheets





(56)                   **References Cited**

U.S. PATENT DOCUMENTS

|            |   |   |         |               |         |
|------------|---|---|---------|---------------|---------|
| D987,849   | S | * | 5/2023  | Weymann ..... | D24/226 |
| D1,000,634 | S | * | 10/2023 | Mori .....    | D24/227 |

\* cited by examiner



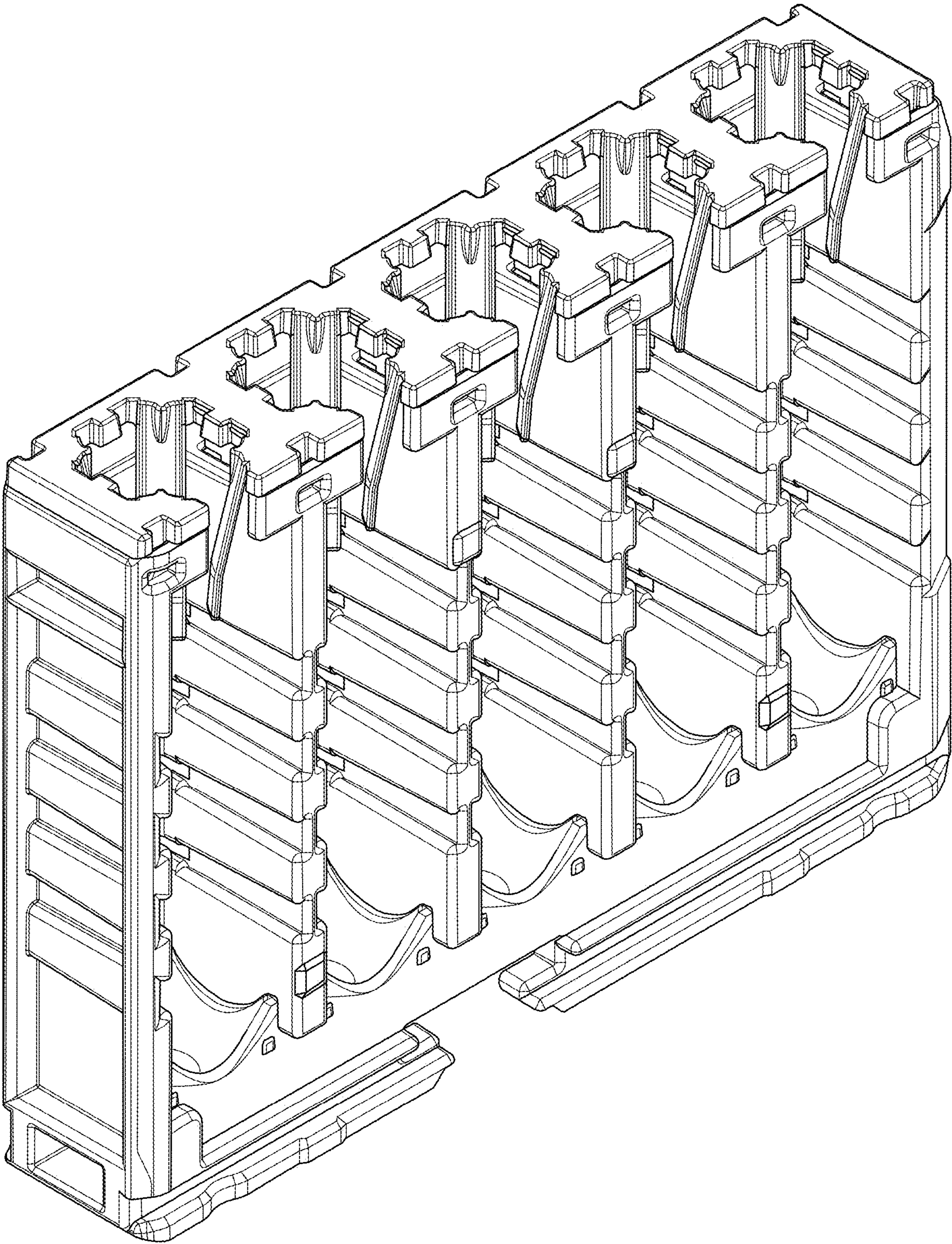


FIG. 1



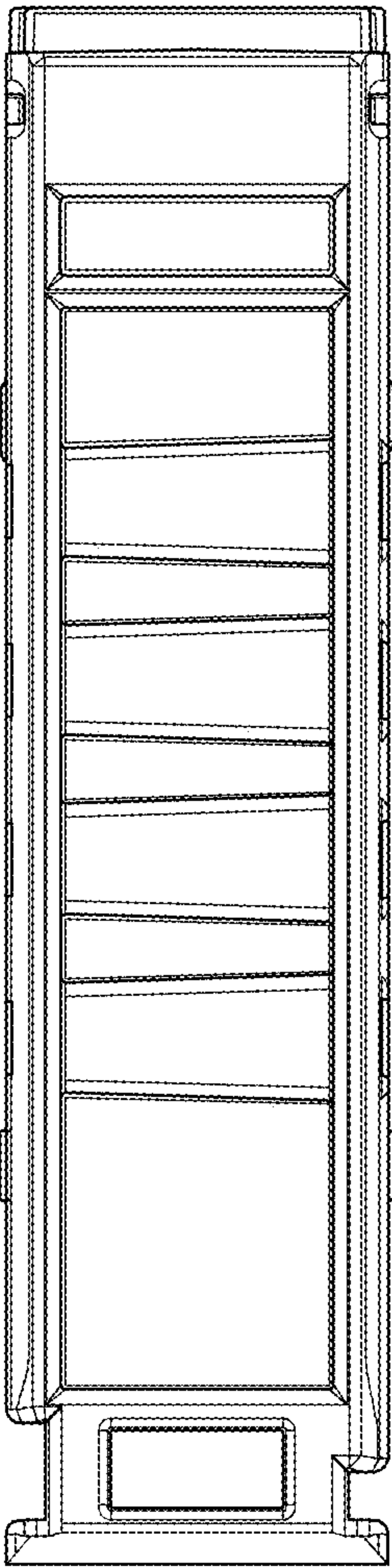


FIG. 2



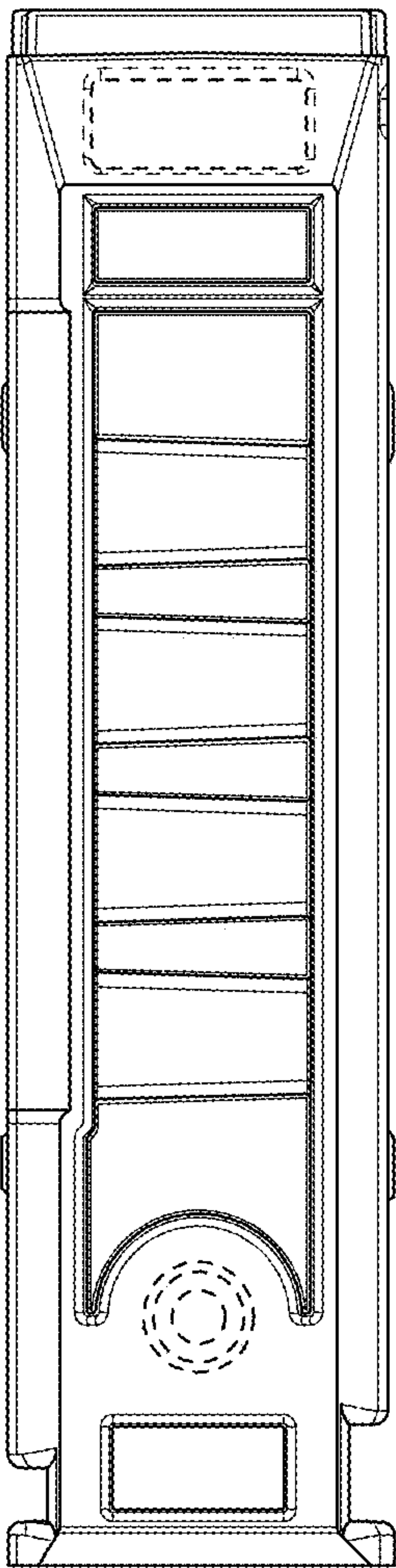


FIG. 3



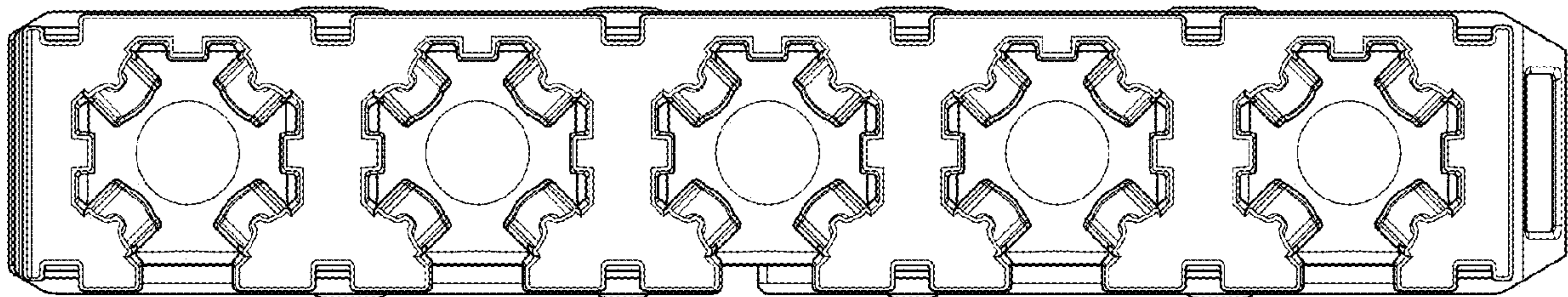


FIG. 4



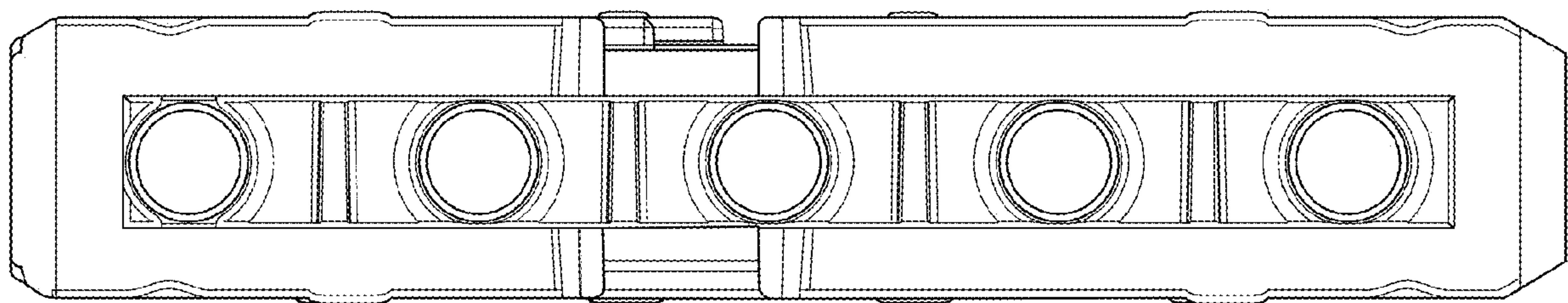


FIG. 5



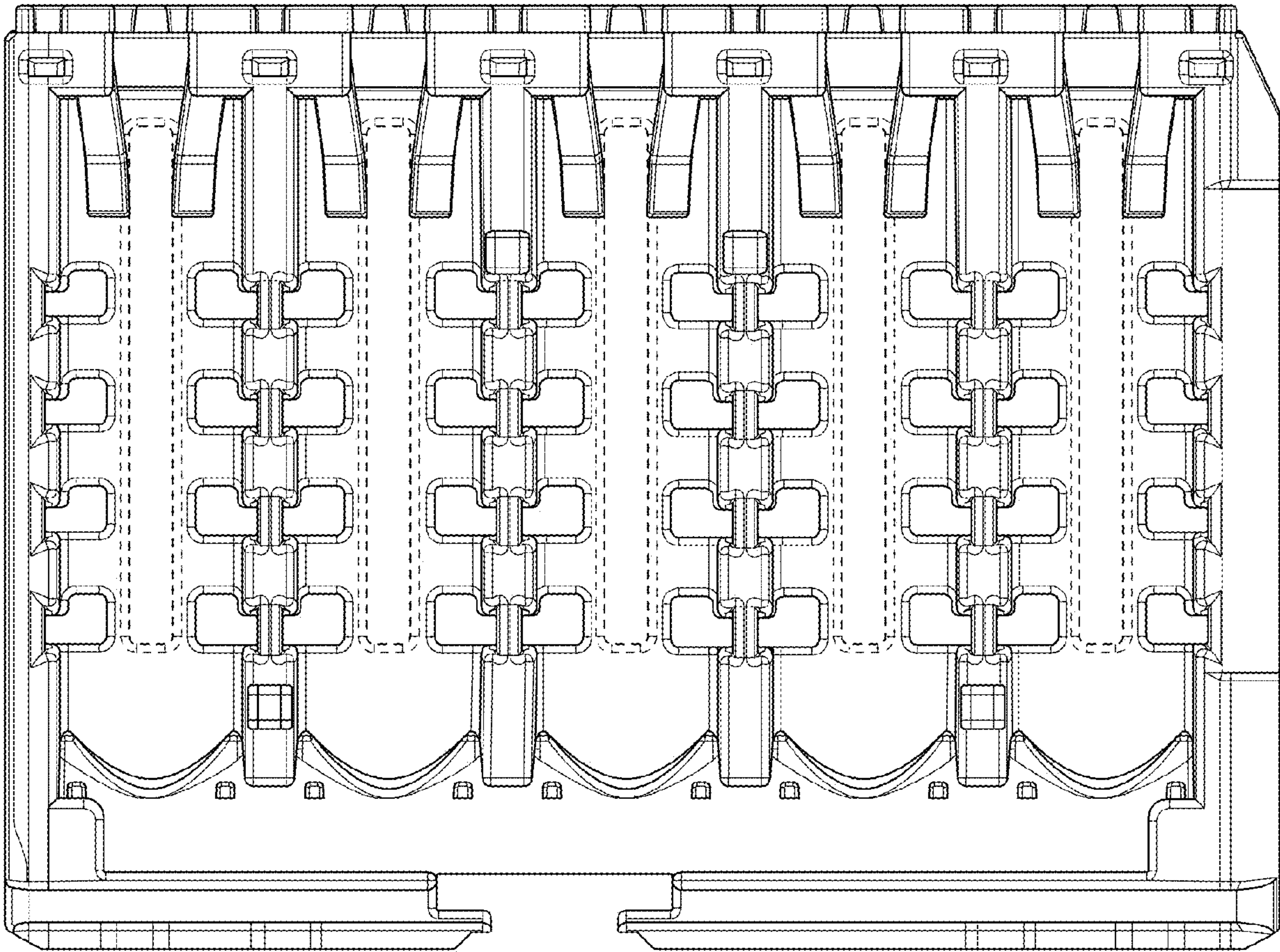


FIG. 6



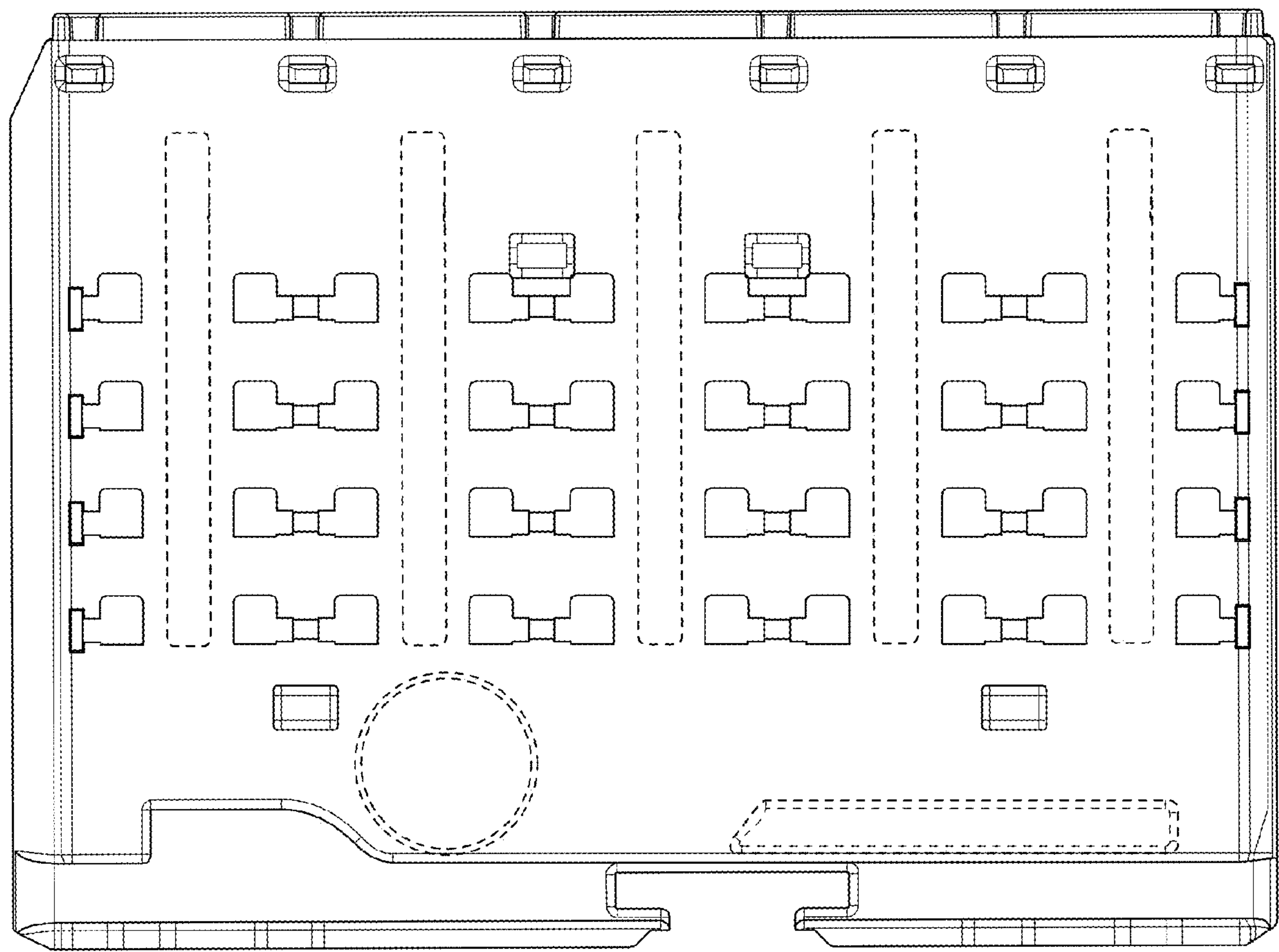


FIG. 7