



US0D1102070S

(12)

United States Design Patent

Burch et al.

(10)

Patent No.:

US D1,102,070 S

(45)

Date of Patent:

\*\* Nov. 11, 2025

(54) VACUUM CLEANER FLOOR TOOL

(71) Applicant: Emerson Electric Co., St. Louis, MO (US)

(72) Inventors: Christopher Burch, St. Louis, MO (US); Liam McGreal, St. Charles, MO (US); Matthew A. Williams, Bridgeton, MO (US); Devdatta Namdev Shingate, Pune (IN); Narendra Gokulsingh Patil, Pune (IN); Rahul Shrihari Doke, Pune (IN); Vikas Mahadev Jadhav, Pune (IN); Douglas C. Schultz, Glen Carbon, IL (US)

(73) Assignee: Emerson Electric Co., St. Louis, MO (US)

(\*\*) Term: 15 Years

(21) Appl. No.: 29/920,016

(22) Filed: Dec. 7, 2023

(51) LOC (15) Cl. 15-05

(52) U.S. Cl. USPC D32/31

(58) Field of Classification Search USPC D32/15–24, 25, 30, 31, 32, 38, 39 CPC A47L 9/02; A47L 9/06; A47L 9/0673; A47L 9/0693; A47L 9/0606 See application file for complete search history.

(56) References Cited

U.S. PATENT DOCUMENTS

|           |     |         |            |             |
|-----------|-----|---------|------------|-------------|
| 1,663,365 | A * | 3/1928  | Wise       | A47L 9/06   |
|           |     |         |            | 15/369      |
| 2,333,409 | A * | 11/1943 | Brown, Jr. | A47L 9/02   |
|           |     |         |            | 15/325      |
| 2,824,334 | A * | 2/1958  | Laningham  | A47L 9/0673 |
|           |     |         |            | 15/325      |
| 3,952,363 | A * | 4/1976  | Lindman    | A47L 9/0653 |
|           |     |         |            | 15/373      |

|            |      |         |             |            |
|------------|------|---------|-------------|------------|
| D250,245   | S *  | 11/1978 | Bebb        | D32/50     |
| 4,143,441  | A *  | 3/1979  | Brooks      | A47L 9/02  |
|            |      |         |             | 15/373     |
| 9,451,856  | B2 * | 9/2016  | Gray        | A47L 9/009 |
| 10,959,584 | B1 * | 3/2021  | Mathias     | A47L 9/122 |
|            |      |         | (Continued) |            |

FOREIGN PATENT DOCUMENTS

|    |                |   |        |
|----|----------------|---|--------|
| EM | 000916986-0004 | * | 6/2008 |
| JP | D1490315       | * | 1/2017 |

OTHER PUBLICATIONS

Floor/Squeegee Nozzle with Brush, available Apr. 4, 2023 [online], [site visited Sep. 18, 2025]. Avail from int, URL: [https://vacmaster.com/accessories/v1fbs-1-1-4-floor-squeegee-nozzle-with-brush/?srsltid=AfmBOooXAfg4AnmxjDaBRPyEDqOVPBKx6qbbTuFp\\_FkpuXzVIBhXZcL1](https://vacmaster.com/accessories/v1fbs-1-1-4-floor-squeegee-nozzle-with-brush/?srsltid=AfmBOooXAfg4AnmxjDaBRPyEDqOVPBKx6qbbTuFp_FkpuXzVIBhXZcL1) (Year: 2023).\*

(Continued)

Primary Examiner — Lilyana Bekic  
Assistant Examiner — Carson Jean Bendel  
(74) Attorney, Agent, or Firm — Armstrong Teasdale LLP

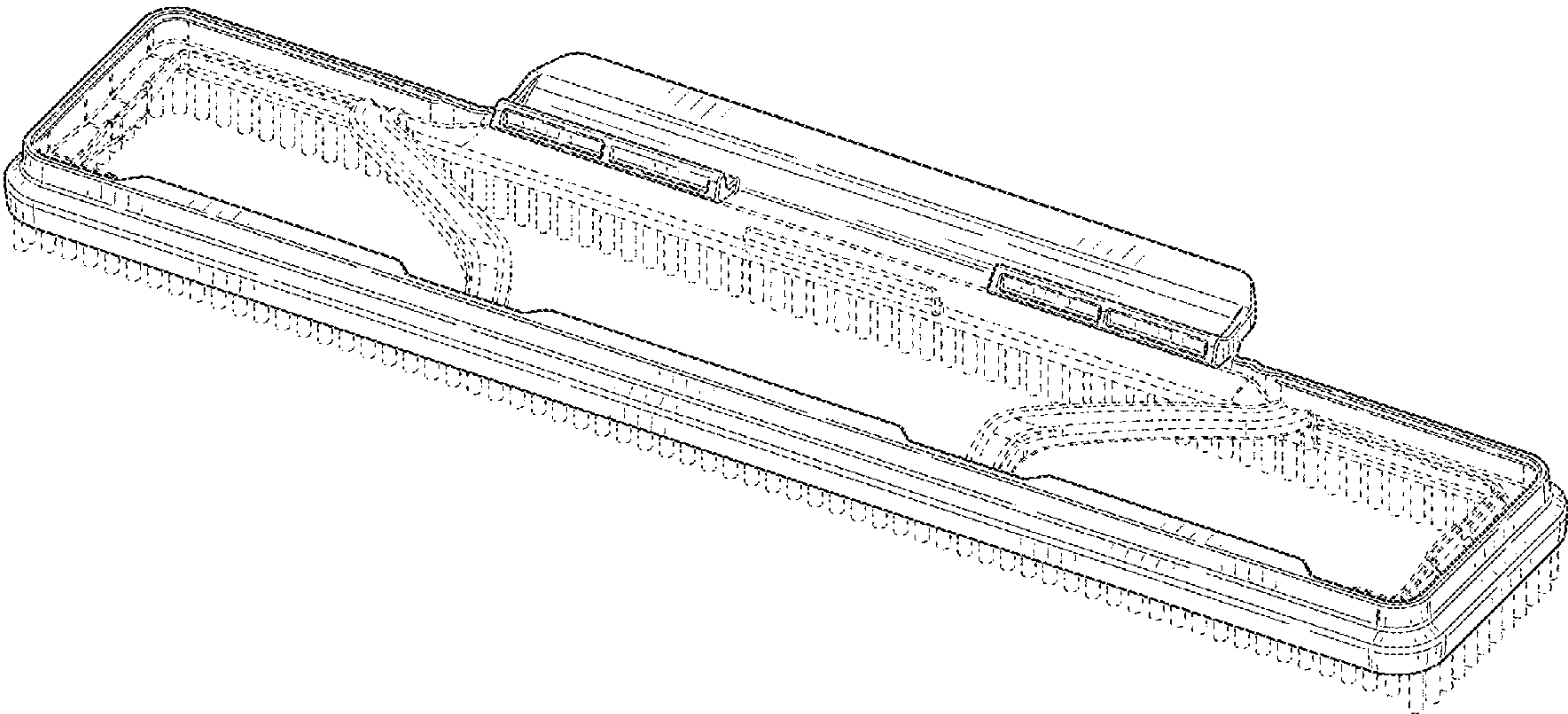
(57) CLAIM

The ornamental design for a vacuum cleaner floor tool as shown and described.

DESCRIPTION

FIG. 1 is a perspective view of a vacuum cleaner floor tool according to the new design.  
FIG. 2 is a front view thereof.  
FIG. 3 is a rear view thereof.  
FIG. 4 is a left-side view thereof.  
FIG. 5 is a right-side view thereof.  
FIG. 6 is a top view thereof; and,  
FIG. 7 is bottom view thereof.  
The broken lines in the drawings depict portions of the vacuum cleaner accessory tool and form no part of the claimed design.

1 Claim, 7 Drawing Sheets





## References Cited

|              |      |         |               |                         |
|--------------|------|---------|---------------|-------------------------|
| 2005/0015922 | A1 * | 1/2005  | Lim .....     | A47L 9/0427<br>15/381   |
| 2007/0074371 | A1 * | 4/2007  | Song .....    | A47L 9/08<br>15/421     |
| 2008/0295270 | A1 * | 12/2008 | Lee .....     | A47L 9/009<br>15/184    |
| 2009/0100636 | A1 * | 4/2009  | Sohn .....    | A47L 9/06<br>15/247     |
| 2010/0257696 | A1 * | 10/2010 | Maguire ..... | A47L 9/06<br>15/415.1   |
| 2012/0227211 | A1 * | 9/2012  | Hwang .....   | A47L 9/0416<br>15/415.1 |
| 2015/0265114 | A1 * | 9/2015  | Box .....     | A47L 9/02<br>15/418     |

Meet the NXT Max Lineup, announced Aug. 8, 2024 [online], [site visited Sep. 18, 2025]. Avail from int, URL: <https://web.archive.org/web/20240808222444/https://nxt.ridgid.com/nxtmaxaccessories/> (Year: 2024).\*

\* cited by examiner



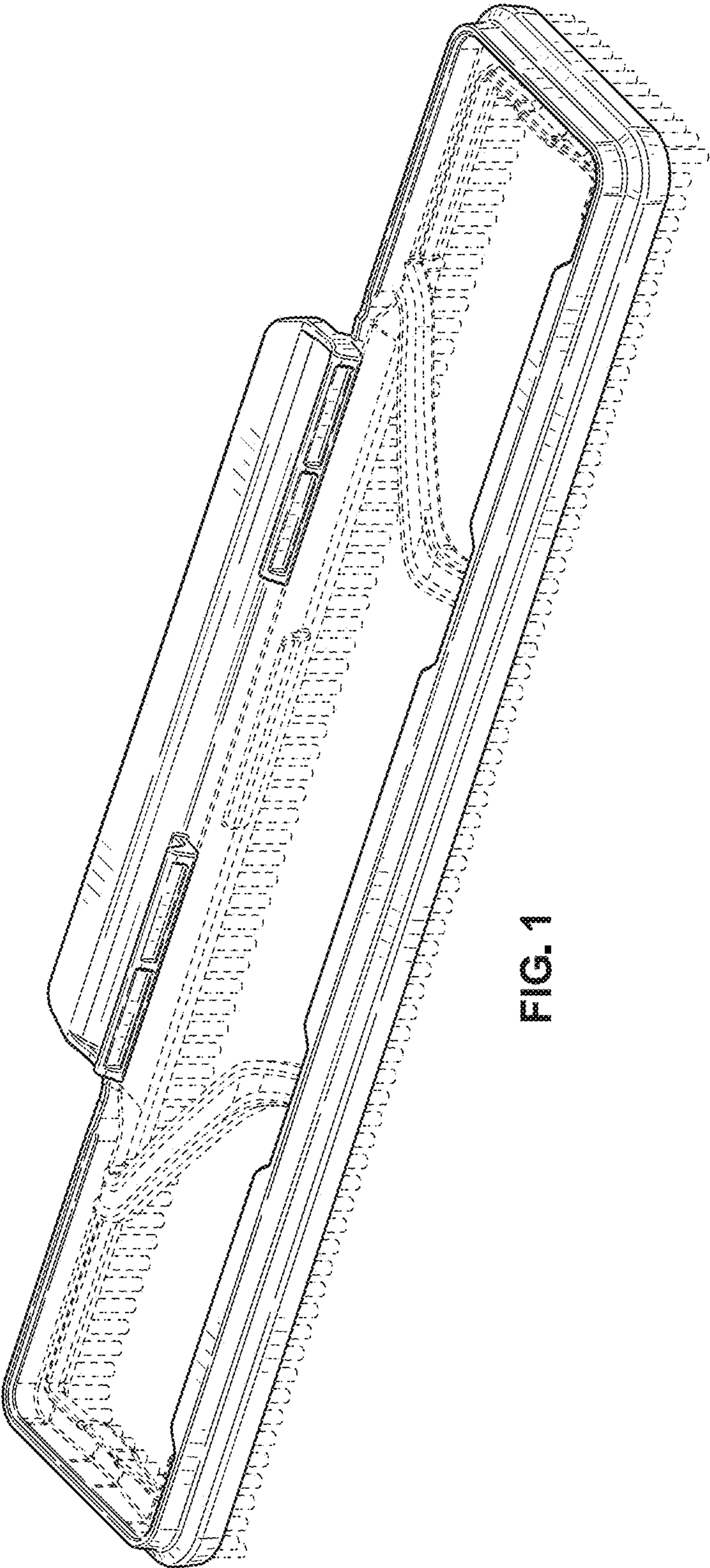


FIG. 1



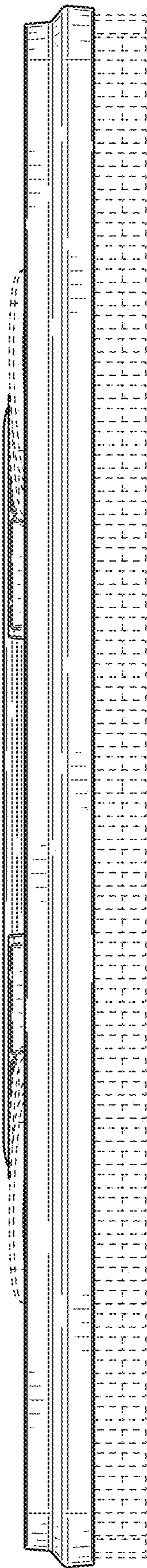


FIG. 2



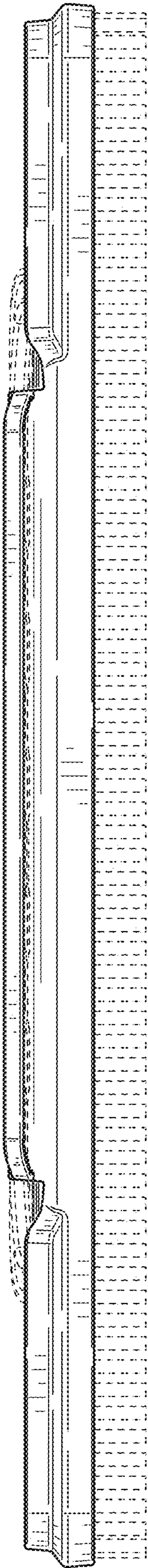


FIG. 3



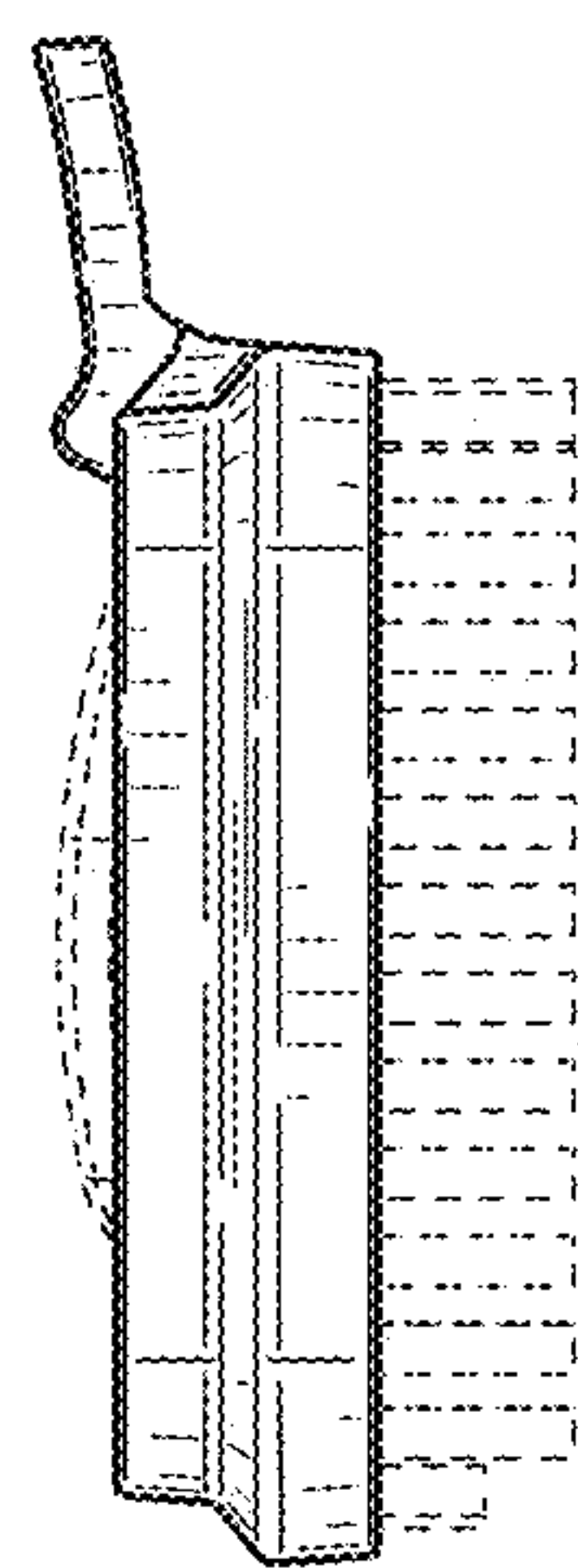


FIG. 4



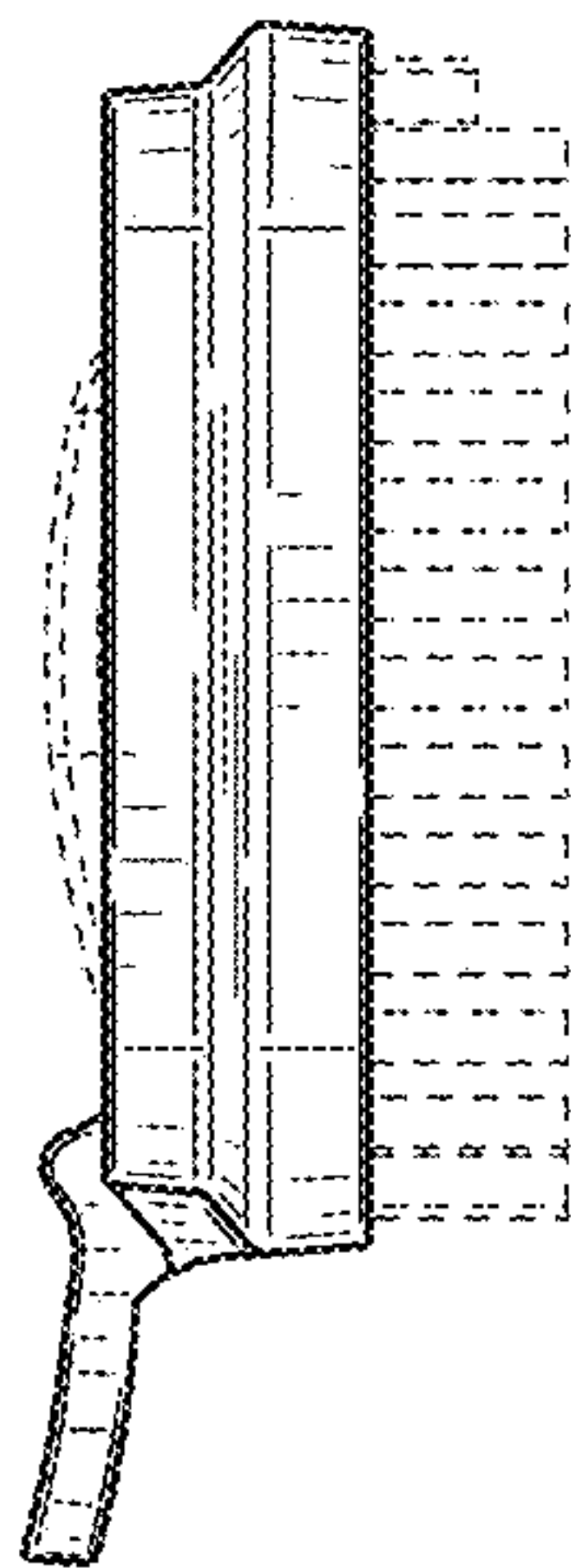


FIG. 5



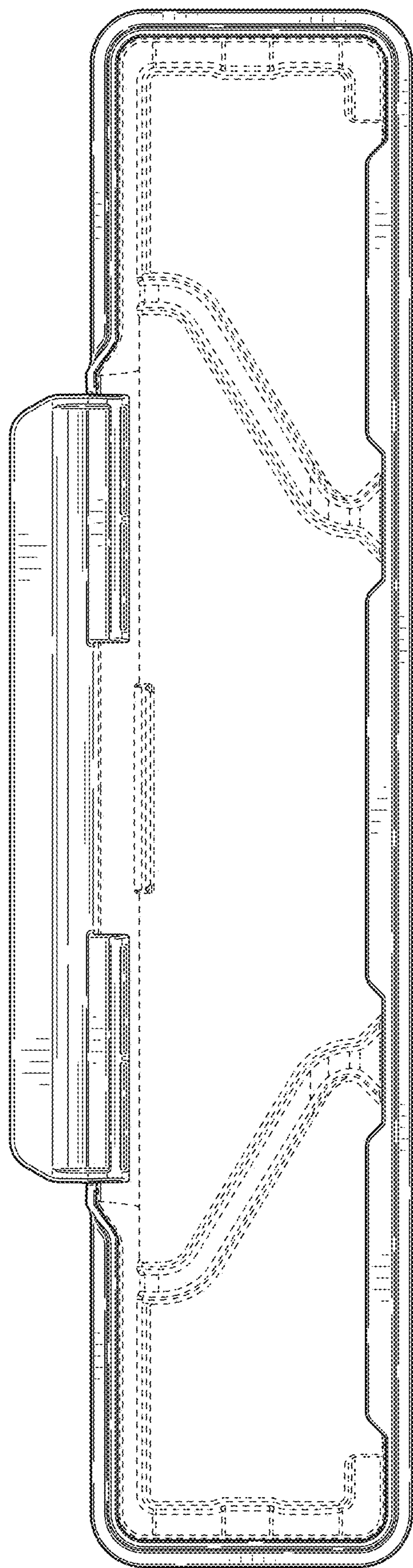


FIG. 6



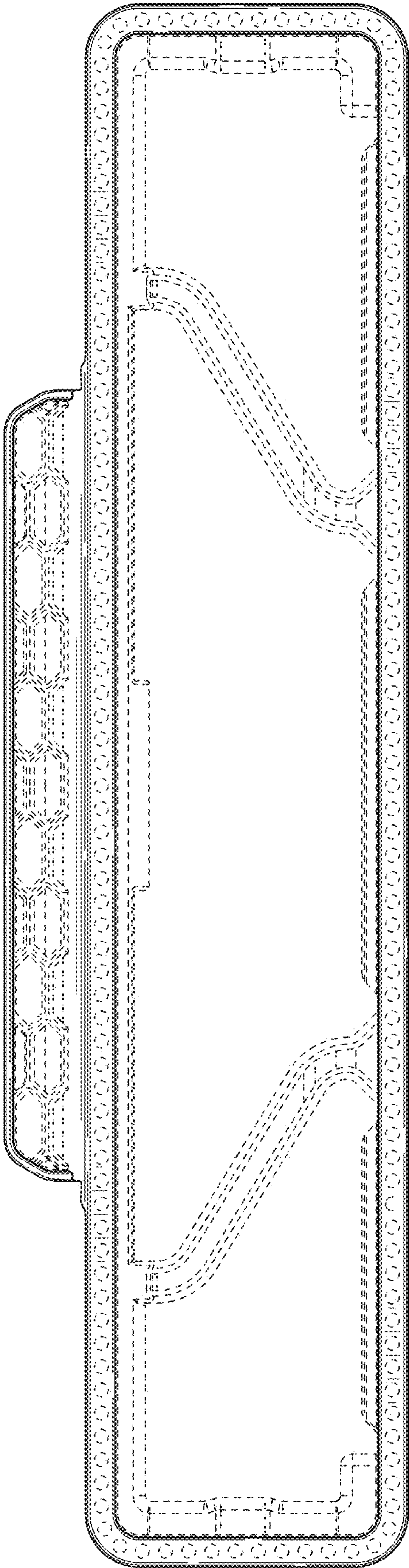


FIG. 7