US0D1085458S

(12) United States Design Patent

Allegoren et al.

(10) Patent No.: US D1,085,458 S
(45) Date of Patent: ** Jul. 22, 2025

(54) **REAGENT CARTRIDGE**

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(73) Assignees: **Illumina, Inc.**, San Diego, CA (US); **Illumina Singapore Pte. Ltd.**, Singapore (SG)

(**) Term: **15 Years**

(21) Appl. No.: **29/985,965**

(22) Filed: **Jan. 17, 2025**

Related U.S. Application Data

(62) Division of application No. 29/865,269, filed on Jul. 15, 2022, now Pat. No. Des. 1,065,580.

(51) **LOC (15) Cl.** **24-02**

(52) **U.S. Cl.**
USPC **D24/226**; D24/230

(58) **Field of Classification Search**
USPC D24/216, 217, 219, 220, 224–227, 232, D24/233; D9/424, 425, 732, 735, 755,
(Continued)

(56) **References Cited**

U.S. PATENT DOCUMENTS

D333,630 S 3/1993 Marks
D351,913 S 10/1994 Hieb et al.
(Continued)

FOREIGN PATENT DOCUMENTS

CN 304787602 S 8/2018
CN 306330554 2/2021
(Continued)

OTHER PUBLICATIONS

QIAsymphony® DNA Handbook. Online, published date Apr. 2010. Retrieved on Mar. 25, 2025 from URL: file:///C:/Users/oagilee/Downloads/EN-QIAsymphony-DNA-Handbook-for-software-version-31-or-lower%20(1).pdf.*
(Continued)

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(57) **CLAIM**

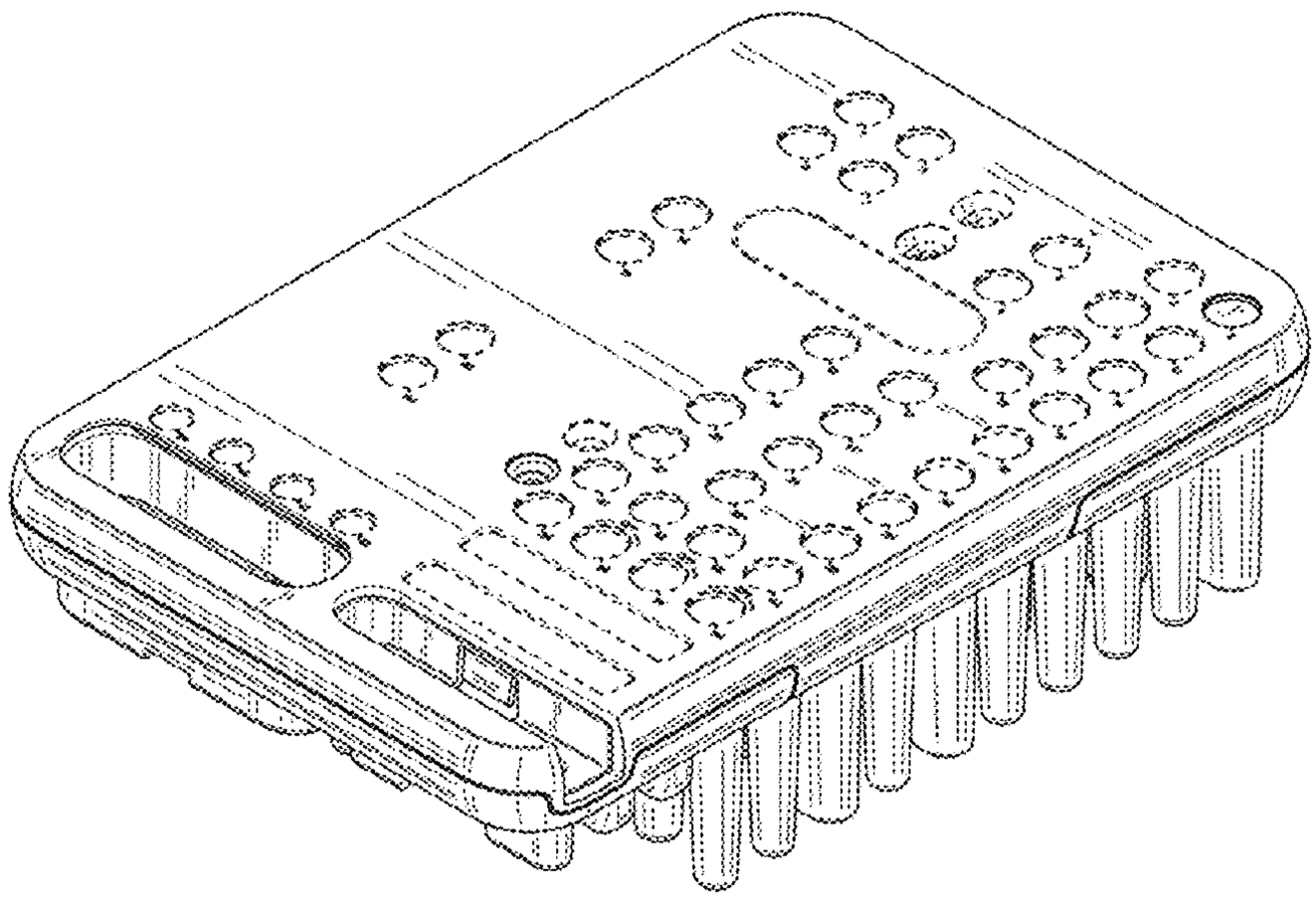
The ornamental design for a reagent cartridge, as shown and described.

DESCRIPTION

FIG. **1** is a front, top, and right perspective view of a reagent cartridge illustrating our new design;
FIG. **2** is a top plan view thereof;
FIG. **3** is a bottom plan view thereof;
FIG. **4** is a left side elevational view thereof;
FIG. **5** is a right side elevational view thereof;
FIG. **6** is a front elevational view thereof;
FIG. **7** is a rear elevational view thereof;
FIG. **8** is a front, top, and left perspective view thereof;
FIG. **9** is a front, bottom, and left perspective view thereof; and,
FIG. **10** is a front, bottom, and right perspective view thereof.

The broken lines shown in the drawings illustrate portions of the reagent cartridge that form no part of the claimed design.

1 Claim, 8 Drawing Sheets



(58) **Field of Classification Search**
USPC D9/758; D7/550.1, 553.1–553.5, 554.3; D3/294–295; D18/43, 44
CPC A47G 23/06; A16B 50/20; A61B 50/30; A61J 1/00; C07K 1/26; B01L 3/52; B01L 7/00
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

D447,233	S	*	8/2001	Bickel	D24/131
D639,975	S		6/2011	Doyle et al.	
D729,403	S		5/2015	Hage et al.	
D745,698	S		12/2015	Hage et al.	
D750,272	S		2/2016	Hage et al.	
D752,770	S		3/2016	Kuhn et al.	
D768,870	S		10/2016	Kuhn et al.	
D785,811	S		5/2017	Watts et al.	
D794,817	S		8/2017	Yi et al.	
D794,818	S		8/2017	Yi et al.	
D794,819	S		8/2017	Yi et al.	
D800,336	S		10/2017	Chang et al.	
D800,912	S		10/2017	Uzri et al.	
D808,540	S	*	1/2018	Johns	D24/227
D812,767	S		3/2018	Osmus et al.	
D819,829	S		6/2018	Osmus et al.	
D825,078	S		8/2018	Osmus et al.	
D840,050	S		2/2019	Schulz et al.	
D843,009	S		3/2019	Watts et al.	
D851,275	S		6/2019	Spuhler et al.	
10,343,160	B2		7/2019	Lemoine et al.	
D861,914	S		10/2019	Blake et al.	
D864,411	S		10/2019	Dangelo et al.	
D864,412	S		10/2019	Dangelo et al.	
D865,213	S		10/2019	Dangelo et al.	
D865,214	S		10/2019	Dangelo et al.	
D865,215	S		10/2019	Dangelo et al.	
D875,271	S		2/2020	Ringold et al.	
D877,356	S		3/2020	Clive-Smith et al.	
D895,146	S		9/2020	Osmus et al.	
D913,518	S		3/2021	Osmus et al.	
D932,052	S	*	9/2021	Zergiebel	D24/227
D942,033	S		1/2022	Osmus et al.	
D949,432	S		4/2022	Osmus et al.	
D952,892	S		5/2022	Osmus et al.	
D953,570	S		5/2022	Uemura et al.	
D970,036	S	*	11/2022	Jeffrey-Coker	D24/224
D979,093	S	*	2/2023	Jeffrey-Coker	D24/226
D1,005,133	S	*	11/2023	Romanov	D9/756
D1,049,420	S	*	10/2024	Jeffrey-Coker	D24/226
D1,050,481	S	*	11/2024	Ruhstorfer	D24/230
D1,053,380	S	*	12/2024	Allegoren	D24/224
2017/0016060	A1		1/2017	Sabounchi et al.	
2017/0209865	A1		7/2017	Carrano et al.	
2018/0117587	A1		5/2018	Lemoine et al.	
2020/0110108	A1		4/2020	Cox-Muranami et al.	
2020/0171502	A1		6/2020	Kumar et al.	
2020/0290037	A1	*	9/2020	Salomon	G01N 33/54366

FOREIGN PATENT DOCUMENTS

JP	D1628115	S	4/2019
TW	D191689		7/2018
WO	DM/098061		7/2017

OTHER PUBLICATIONS

Erik Allegoren et al.; "Reagent Cartridge"; U.S. Appl. No. 29/865,272, filed Jul. 15, 2022.

* cited by examiner

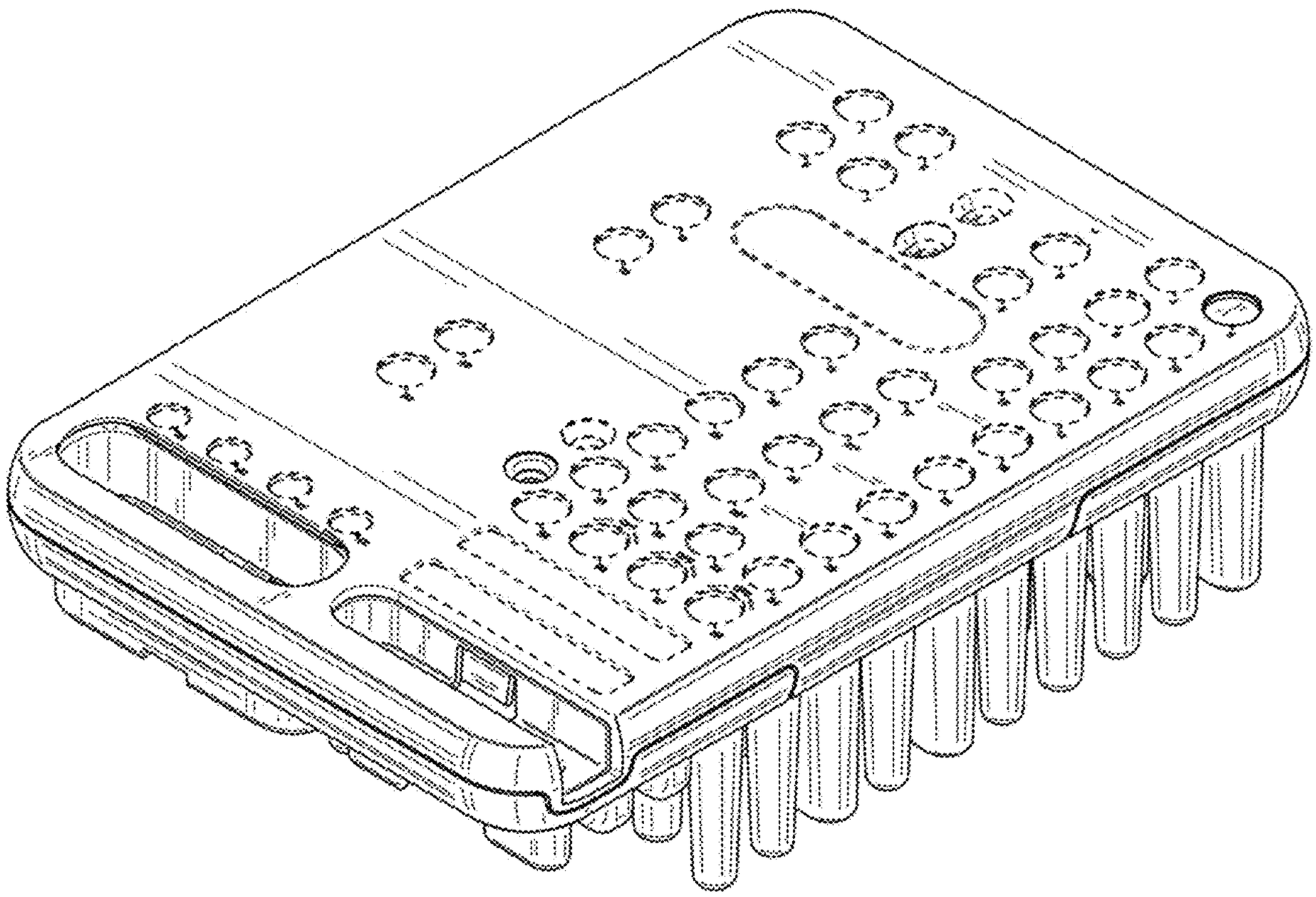


FIG. 1

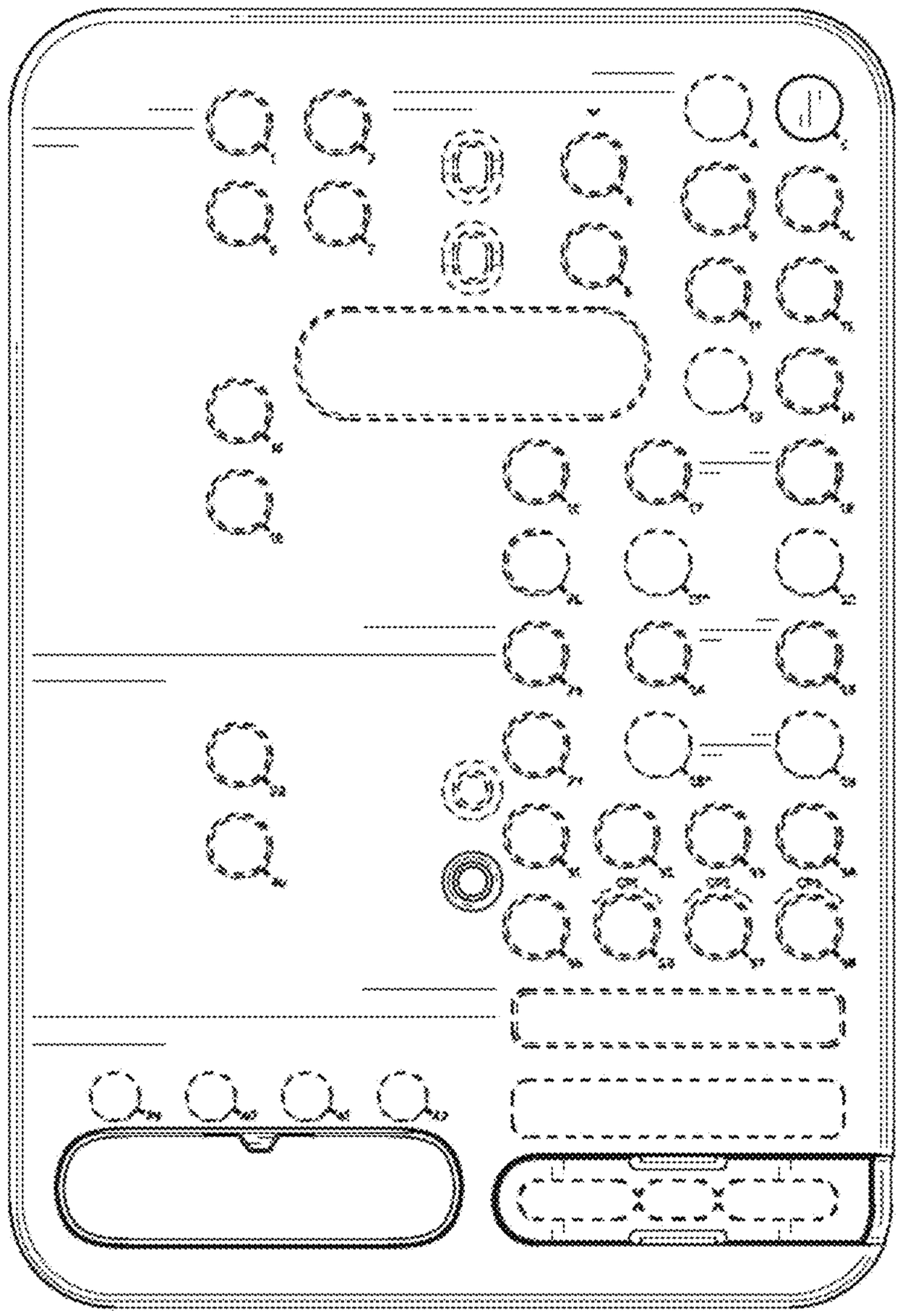


FIG. 2

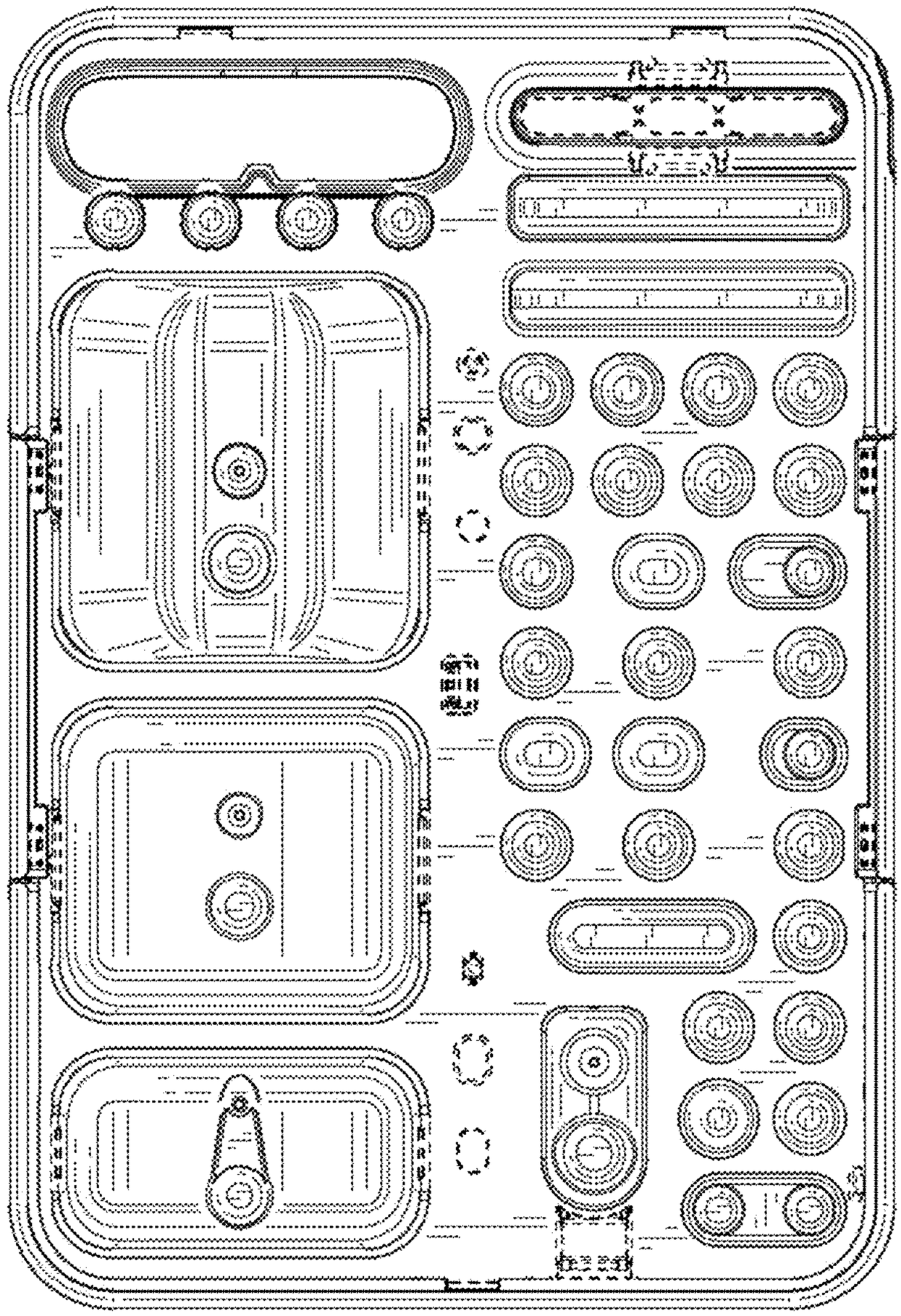


FIG. 3

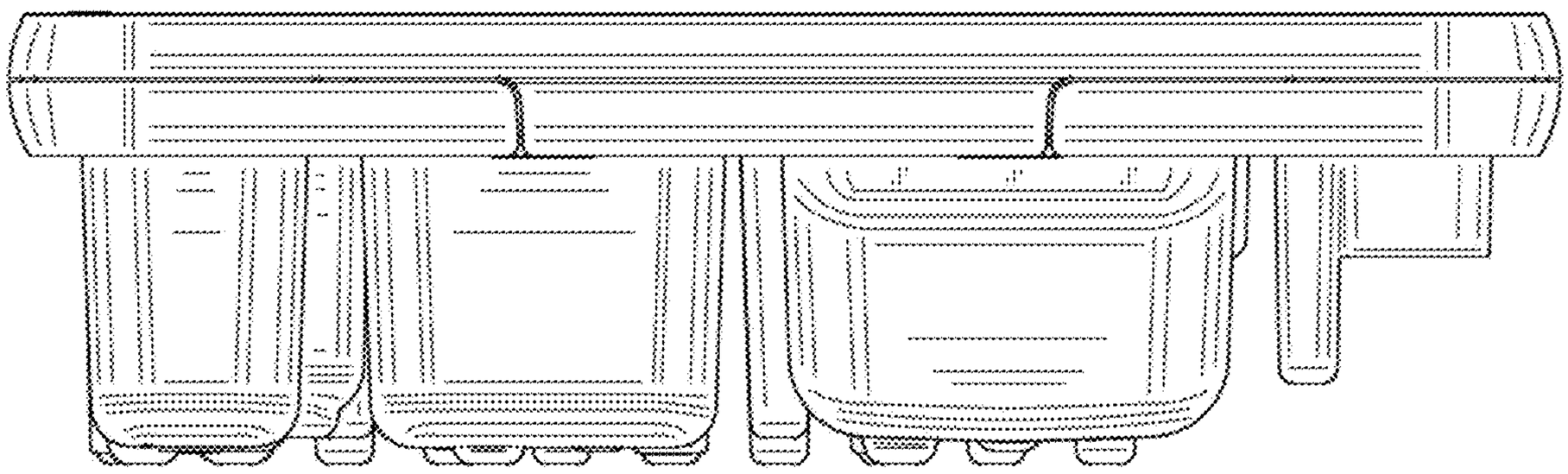


FIG. 4

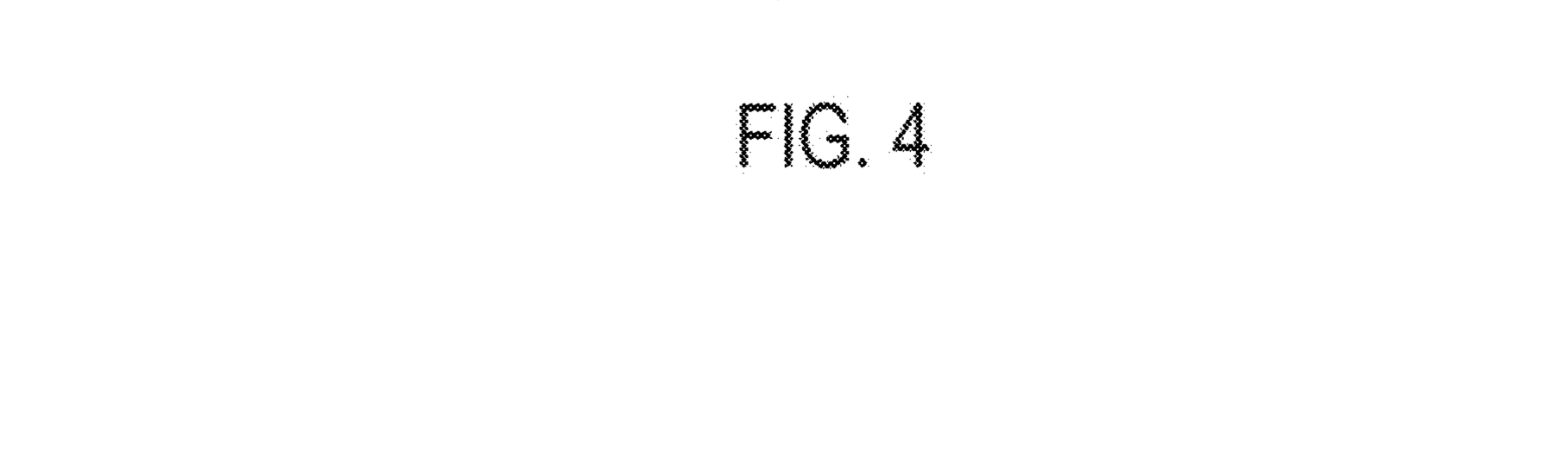


FIG. 5

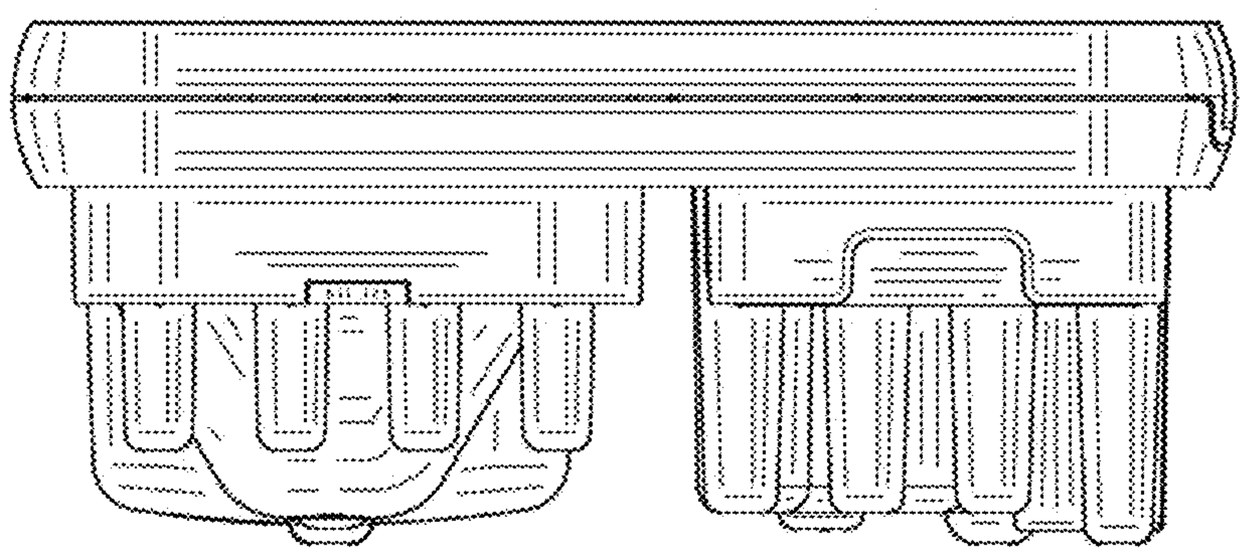


FIG. 6

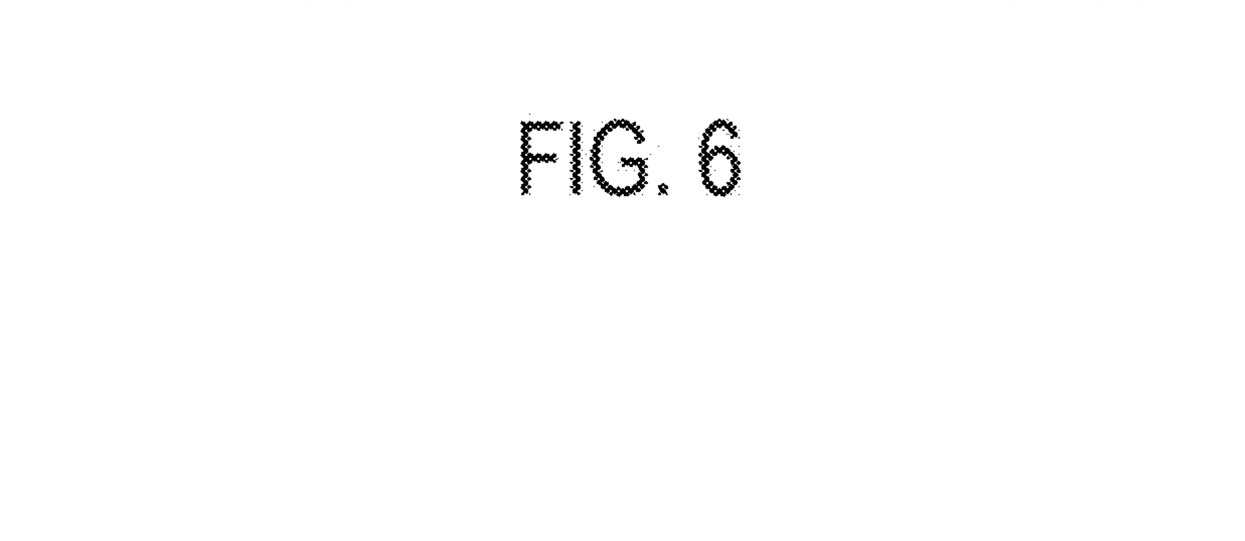


FIG. 7

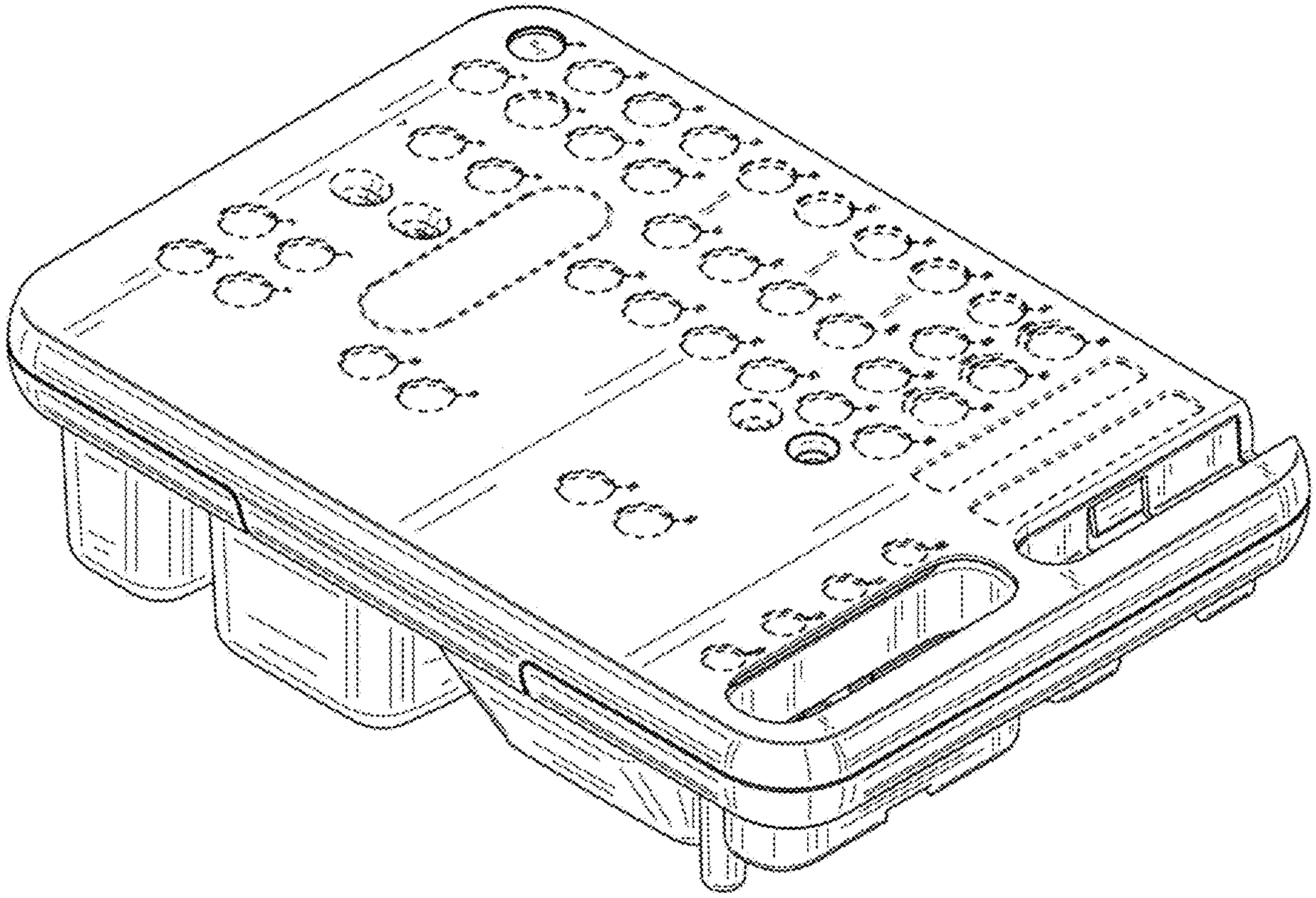


FIG. 8

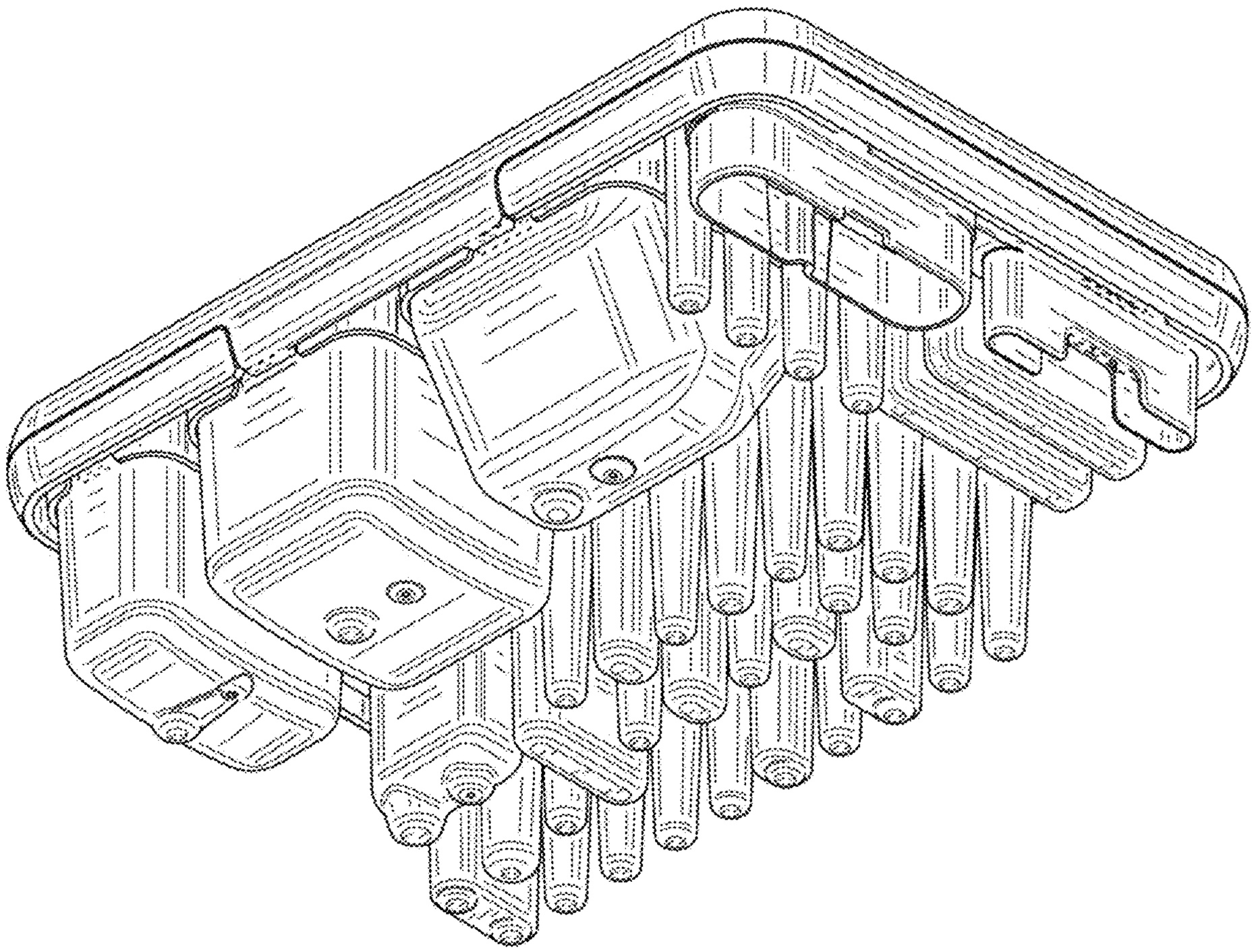


FIG. 9

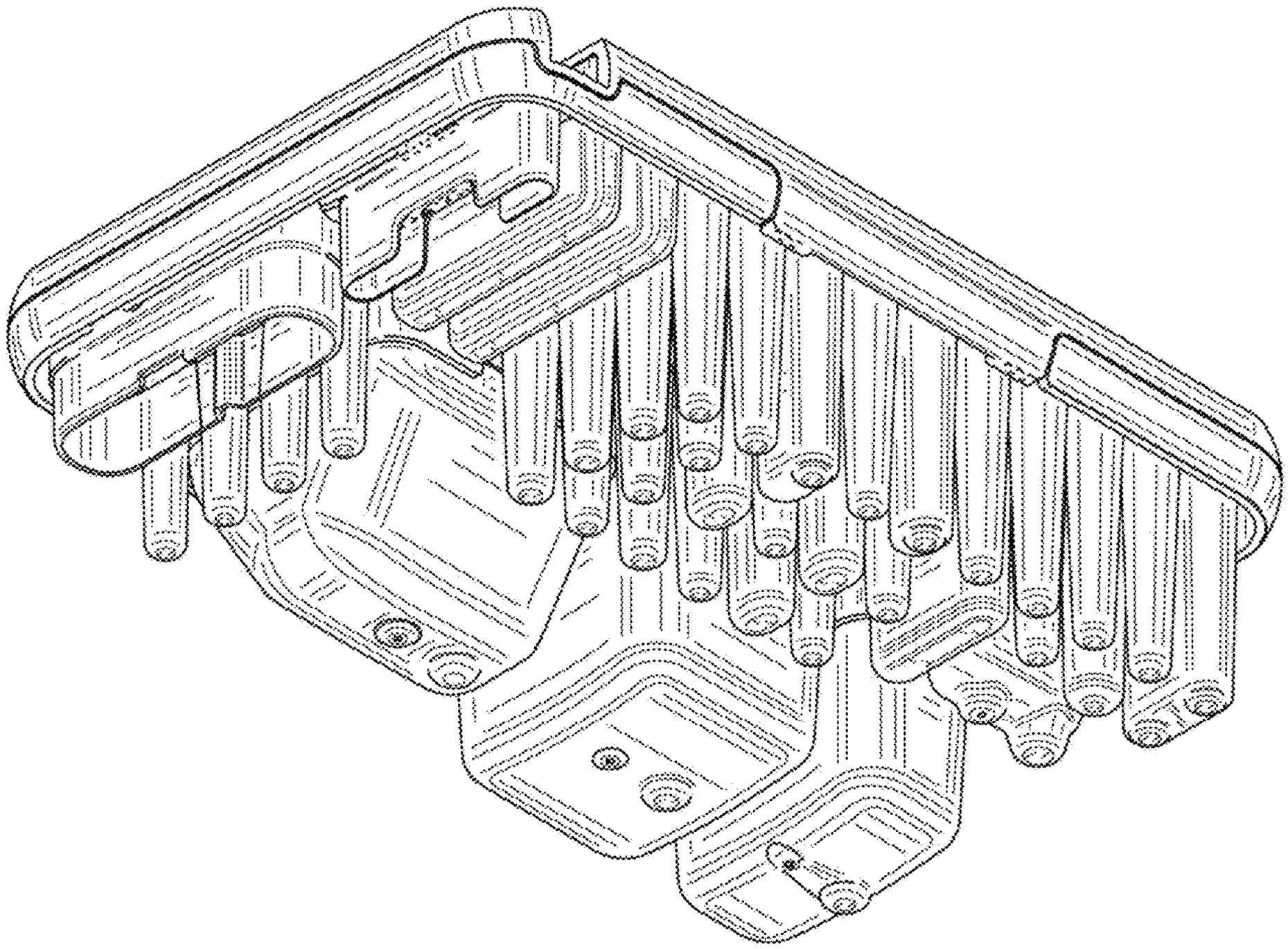


FIG. 10