US0D1097663S

(12) United States Design Patent

Whitelaw et al.

(10) Patent No.: US D1,097,663 S
(45) Date of Patent: ** Oct. 14, 2025

(54) **CHECKOUT STATION**

(71) Applicant: **Walmart Apollo, LLC**, Bentonville, AR (US)

(72) Inventors: **Darrell Whitelaw**, Pacific Palisades, CA (US); **John C. Crecelius, Jr.**, Springdale, AR (US); **Andrew J. Grignon**, Half Moon Bay, CA (US); **Stephen S. Hadinger**, Berkeley, CA (US); **Jae Y. Lew**, Mill Valley, CA (US); **Brittany N. Leek**, Waterford, MI (US)

(73) Assignee: **Walmart Apollo, LLC**, Bentonville, AR (US)

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

(21) Appl. No.: **29/883,601**

(22) Filed: **Jan. 31, 2023**

(51) **LOC (15) Cl.** **06-03**

(52) **U.S. Cl.**
USPC **D6/699**

(58) **Field of Classification Search**
USPC D6/698, 699, 699.1–699.3
(Continued)

(56) **References Cited**

U.S. PATENT DOCUMENTS

5,083,638 A 1/1992 Schneider
5,115,888 A 5/1992 Schneider
(Continued)

FOREIGN PATENT DOCUMENTS

CA 2868192 A1 9/2013
CN 104217324 A 12/2014
(Continued)

OTHER PUBLICATIONS

BBC, The unpopular rise of self-checkouts (and how to fix them), available in bbc.com, date published May 9, 2017 [online], [site visited Sep. 16, 2023], Available from the internet URL: https://www.bbc.com/future/article/20170509-the-unpopular-rise-of-self-checkouts-and-how-to-fix-them (Year: 2017).
(Continued)

Primary Examiner — Mary Ann Calabrese
(74) *Attorney, Agent, or Firm* — Fitch, Even, Tabin & Flannery LLP

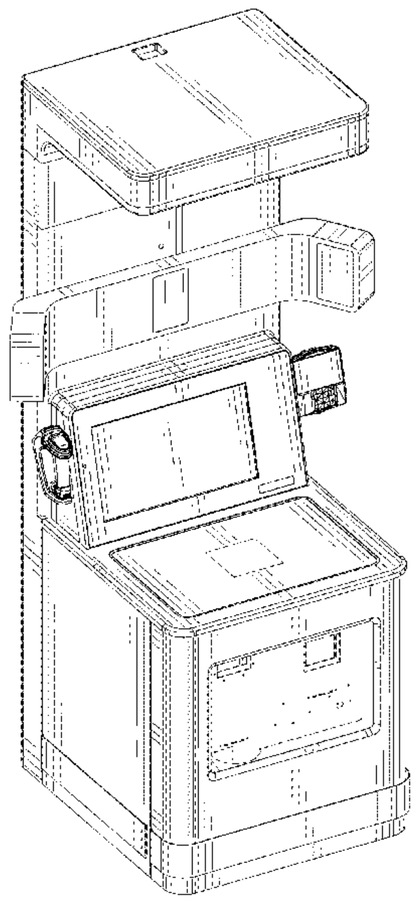
(57) **CLAIM**

The ornamental design for a checkout station, as shown and described.

DESCRIPTION

FIG. **1** is a top front perspective view of a first embodiment of a checkout station according to our new design;
FIG. **2** is bottom rear perspective view thereof;
FIG. **3** is a front elevation view thereof;
FIG. **4** is a rear elevation view thereof;
FIG. **5** is a right side elevation view thereof;
FIG. **6** is a left side elevation view thereof;
FIG. **7** is a top plan view thereof;
FIG. **8** is a bottom plan view thereof;
FIG. **9** is a top front perspective view of a second embodiment of a checkout station according to our new design;
FIG. **10** is bottom rear perspective view thereof;
FIG. **11** is a front elevation view thereof;
FIG. **12** is a rear elevation view thereof;
FIG. **13** is a right side elevation view thereof;
FIG. **14** is a left side elevation view thereof;
FIG. **15** is a top plan view thereof; and,
FIG. **16** is a bottom plan view thereof.
The broken lines indicate unclaimed subject matter.

1 Claim, 16 Drawing Sheets



(58) **Field of Classification Search**
CPC A47F 9/00; A47F 9/02; A47F 9/04; A47F 9/042; A47F 10/00; A47F 10/02; A47F 10/06
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

5,804,807	A	9/1998	Murrah	
6,598,791	B2	7/2003	Bellis, Jr.	
6,672,506	B2	1/2004	Swartz	
6,854,647	B2	2/2005	Collins, Jr.	
7,114,656	B1	10/2006	Garver	
D536,192	S	2/2007	Kruse	
7,219,838	B2	5/2007	Brewster	
7,337,955	B1	3/2008	Block	
7,413,122	B2 *	8/2008	Murofushi	G06Q 20/208 235/383
7,648,068	B2	1/2010	Silverbrook	
7,780,081	B1	8/2010	Liang	
7,954,719	B2	6/2011	Zhu	
8,033,461	B2	10/2011	Barron	
8,196,822	B2	6/2012	Goncalves	
8,448,859	B2	5/2013	Goncalves	
8,620,755	B1	12/2013	Argue	
8,635,112	B1	1/2014	Argue	
8,746,557	B2	6/2014	Connell, II	
8,942,996	B2	1/2015	Argue	
D724,365	S *	3/2015	DeMars	D6/648
9,171,442	B2	10/2015	Clements	
9,262,781	B2	2/2016	Wendy	
9,311,645	B2	4/2016	Edwards	
9,347,819	B2	5/2016	Atwater	
9,552,710	B2	1/2017	Rasband	
D787,869	S *	5/2017	Denby	D6/698
9,747,759	B2	8/2017	Klein	
9,892,438	B1	2/2018	Kundu	
9,911,138	B2	3/2018	Grabovski	
9,953,355	B2	4/2018	Liu	
D828,348	S	9/2018	Lee	
10,121,133	B2	11/2018	Nelms	
10,448,761	B2	10/2019	Bacallao	
10,540,551	B2	1/2020	Srivastava	
10,592,944	B2	3/2020	Kundu	
10,672,051	B2	6/2020	Herring	
10,872,326	B2	12/2020	Garner	
D917,942	S *	5/2021	Crecelius	D6/699
11,017,229	B2	5/2021	MaGee	
11,208,134	B2	12/2021	Carter	
11,244,543	B2	2/2022	Makley	
11,263,682	B2	3/2022	Karmakar	
11,308,297	B2	4/2022	Gao	
D970,147	S	11/2022	Tougo	
D981,394	S	3/2023	Pollmann	
D982,001	S	3/2023	Pollmann	
D1,007,208	S *	12/2023	McDowell	D6/699
11,966,900	B2	4/2024	Xiao	
D1,026,516	S	5/2024	Johnson	
D1,047,548	S	10/2024	Whitelaw	
D1,051,647	S	11/2024	Whitelaw	
2003/0018897	A1	1/2003	Donald	
2004/0041021	A1	3/2004	Nugent	
2004/0220860	A1	11/2004	Persky	
2005/0006176	A1	1/2005	Kurtz	
2005/0189411	A1	9/2005	Ostrowski	
2006/0032914	A1	2/2006	Brewster	
2007/0063045	A1	3/2007	Acosta	
2007/0080220	A1	4/2007	Garver	
2007/0125849	A1	6/2007	Addison	
2008/0041959	A1	2/2008	Knowles	
2009/0192902	A1	7/2009	Cox	
2009/0321518	A1	12/2009	Barron	
2010/0053329	A1	3/2010	Flickner	
2010/0191603	A1	7/2010	Herwig	
2012/0041845	A1	2/2012	Rothschild	
2012/0055982	A1	3/2012	Edwards	
2012/0095853	A1	4/2012	Von Bose	
2012/0173351	A1	7/2012	Hanson	
2012/0320214	A1	12/2012	Kundu	
2013/0018741	A1	1/2013	Ostrowski	
2013/0254044	A1	9/2013	Catoe	
2013/0278425	A1	10/2013	Cunningham	
2014/0052555	A1	2/2014	Macintosh	
2014/0067568	A1	3/2014	Argue	
2014/0211017	A1	7/2014	Argue	
2014/0214596	A1	7/2014	Acker, Jr.	
2014/0316901	A1	10/2014	Grabovski	
2015/0009035	A1	1/2015	Rasband	
2017/0046707	A1	2/2017	Krause	
2017/0083887	A1	3/2017	Volta	
2017/0132601	A1	5/2017	Susaki	
2017/0161703	A1	6/2017	Dodia	
2017/0323253	A1	11/2017	Enssle	
2018/0232796	A1	8/2018	Glaser	
2018/0247292	A1	8/2018	Crooks	
2018/0314863	A1	11/2018	Gao	
2018/0330196	A1	11/2018	Chaubard	
2019/0034897	A1	1/2019	Gao	
2019/0043057	A1	2/2019	Montgomery	
2019/0080277	A1	3/2019	Trivelpiece	
2019/0108396	A1	4/2019	Dal Mutto	
2019/0188435	A1	6/2019	Davis	
2019/0333039	A1	10/2019	Glaser	
2019/0355049	A1	11/2019	Kulkarni Wadhonkar	
2020/0079412	A1	3/2020	Ramanathan	
2020/0193507	A1	6/2020	Glaser	
2020/0380226	A1	12/2020	Rodriguez	
2021/0019725	A1	1/2021	Xiao	
2021/0150618	A1	5/2021	Glaser	
2021/0183211	A1	6/2021	Suzuki	
2022/0044221	A1	2/2022	Ueki	
2022/0194454	A1	6/2022	Carter	
2022/0270065	A1	8/2022	Barkan	
2022/0383383	A1	12/2022	Xiao	
2022/0414924	A1	12/2022	Krishnamurthy	
2023/0027855	A1	1/2023	Dheeraj Raju	
2023/0245535	A1	8/2023	Zhichun	
2023/0259944	A1	8/2023	Gotanda	
2023/0410041	A1	12/2023	Roth	
2025/0046161	A1	2/2025	Whitelaw	

FOREIGN PATENT DOCUMENTS

CN	107228706		10/2017
CN	207731310	U	8/2018
CN	209357183		9/2019
CN	306368800		2/2021
CN	306315473		3/2021
EP	3514772		7/2019
EP	3865017		8/2021
WO	2015051303	A1	4/2015
WO	2015112446		7/2015
WO	2019062018	A1	4/2019
WO	2021097019	A1	5/2021
WO	2022082309		4/2022
WO	2022190101		9/2022
WO	20220190101		9/2022
WO	2023049250		3/2023
WO	2024163396		8/2024
WO	2024163470		8/2024
WO	2024163480		8/2024

OTHER PUBLICATIONS

CCL, SCO With Age Recognition, available in colpos.com, google date May 26, 2013 [online], [site visited Sep. 22, 2023], Available from the internet URL: https://www.cclpos.com/self-checkout/self-checkout-facial-recognition.html (Year: 2013).

Licca Ch Liang, Smart Self Service Checkout Solution, available in Youtube.com, published Apr. 14, 2019, [online], [site visited Sep. 22, 2023], Available from the internet URL: https://www.youtube.com/watch?v=b0K6L9Q00Mo (Year: 2019).

Medium, Why Self-Service Checkouts Suck, available in medium.com, date published Jan. 25, 2017 [online], [site visited Sep. 18,

(56) **References Cited**

OTHER PUBLICATIONS

2023], Available from the internet URL: https://medium.com/the-ux-chap/why-self-service-checkouts-suck-276b2b73a389 (Year: 2017).
Penny Pincher, First, Walmart Moved Entirely to Self-Checkout. Now Here's What's Happening Next ?? , available in passionatepennypincher.com, date published Mar. 16, 2022 [online], [site visited Sep. 16, 2023], Available from the internet URL: https://passionatepennypincher.com/walmart-self-checkout/ (Year: 2022).
Smith, New Checkout Experience Seeks to Eliminate the Wait and Add Options at the Register, available in corporate.walmart.com, date published Jun. 30, 2020 [online], [site visited Sep. 22, 2023], Available from the internet URL: https://corporate.walmart.com/news/2020/06/30/new-checkout-experience-seeks-to-e (Year: 2020).
The Conversation, Why technology makes US dishonest: ways to reduce cheating at self-service checkouts, available in theconversation.com, date published Aug. 7, 2016 [online], [site visited Sep. 18, 2023], Available from the internet URL: https://theconversation.com/why-technology-makes-us-dishonest-ways-to-r (Year: 2016).
The Spoon, The Spoon checks out Mashgin's AI-Powered Checkout at CES 2022, available in Youtube.com, published Jan. 8, 2022 [online], [site visited Sep. 22, 2023], Available from the internet URL: https://www.youtube.com/watch?v=P9XmUxSO-UO (Year: 2022).
Bobbit, Russell, et al.; "Visual Item Verification for Fraud Prevention in Retail Self-Checkout"; IBM T.J. Watson Research ; 2011; pp. 1-6.
Datalogic Adc Inc; "Magellan™ 8300/8400#"; Product Reference Guide; 2016; Datalogic S.p.A.; Eugene, OR, USA; < https://www.mercator.eu/mercator/std/pos/Manual_Datalogic_Magella_8400.pdf>; 542 pages.
Venkatraman, Santhi, et al.; "i-Shopping with Sensor Fusion for finding Customer Behavior using Deep Learning Algorithm"; 2018 4th International Conference for Convergence in Technology (I2CT); Oct. 1, 2018; <http://dx.doi.org/10.1109/12CT42659.2018.9058212>; pp. 1-7.
Weighing Solutions & Instrumentation; "RFID Weighing Scales"; <wsi-scales.com/index.php/rfid-weighing-scales/>; Feb. 10, 2023; pp. 1-3.

* cited by examiner

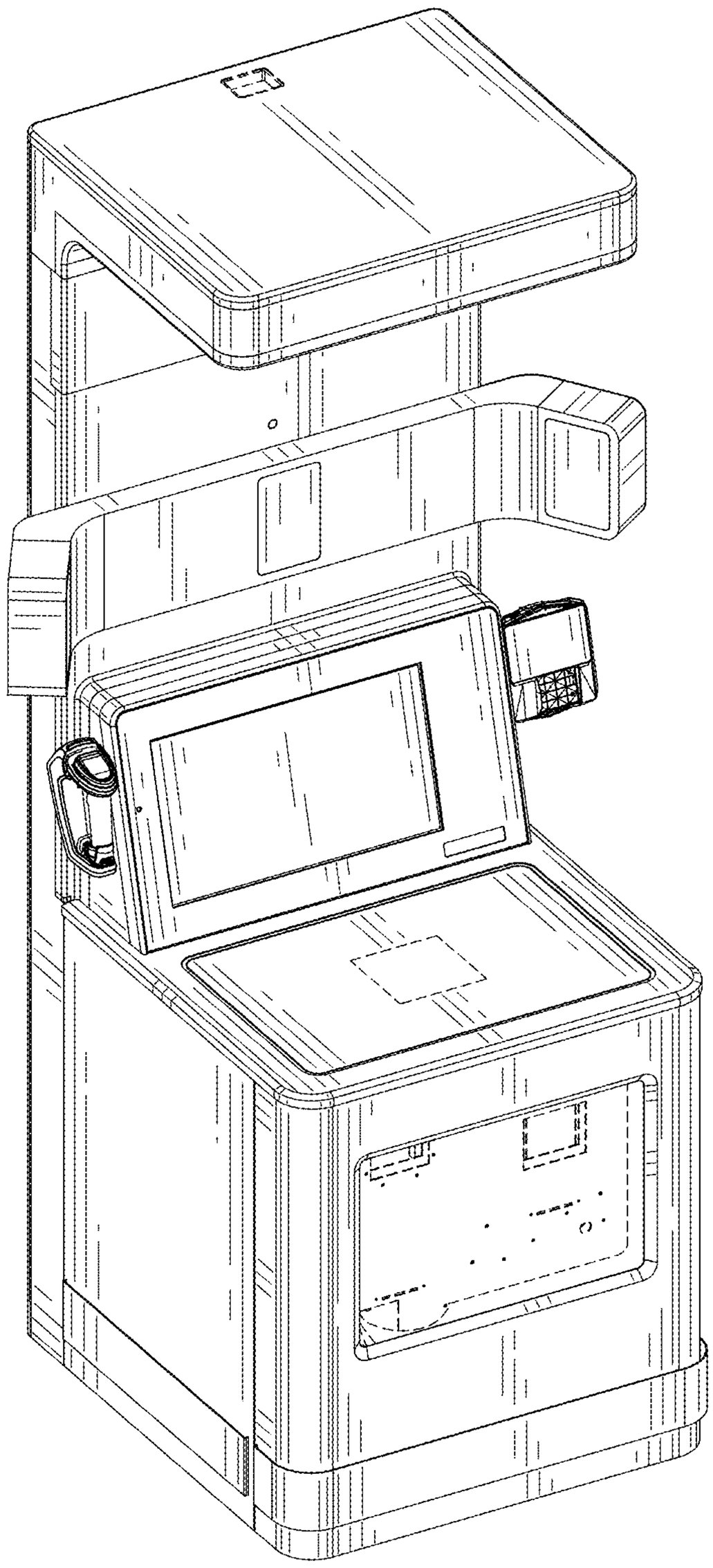


FIG. 1

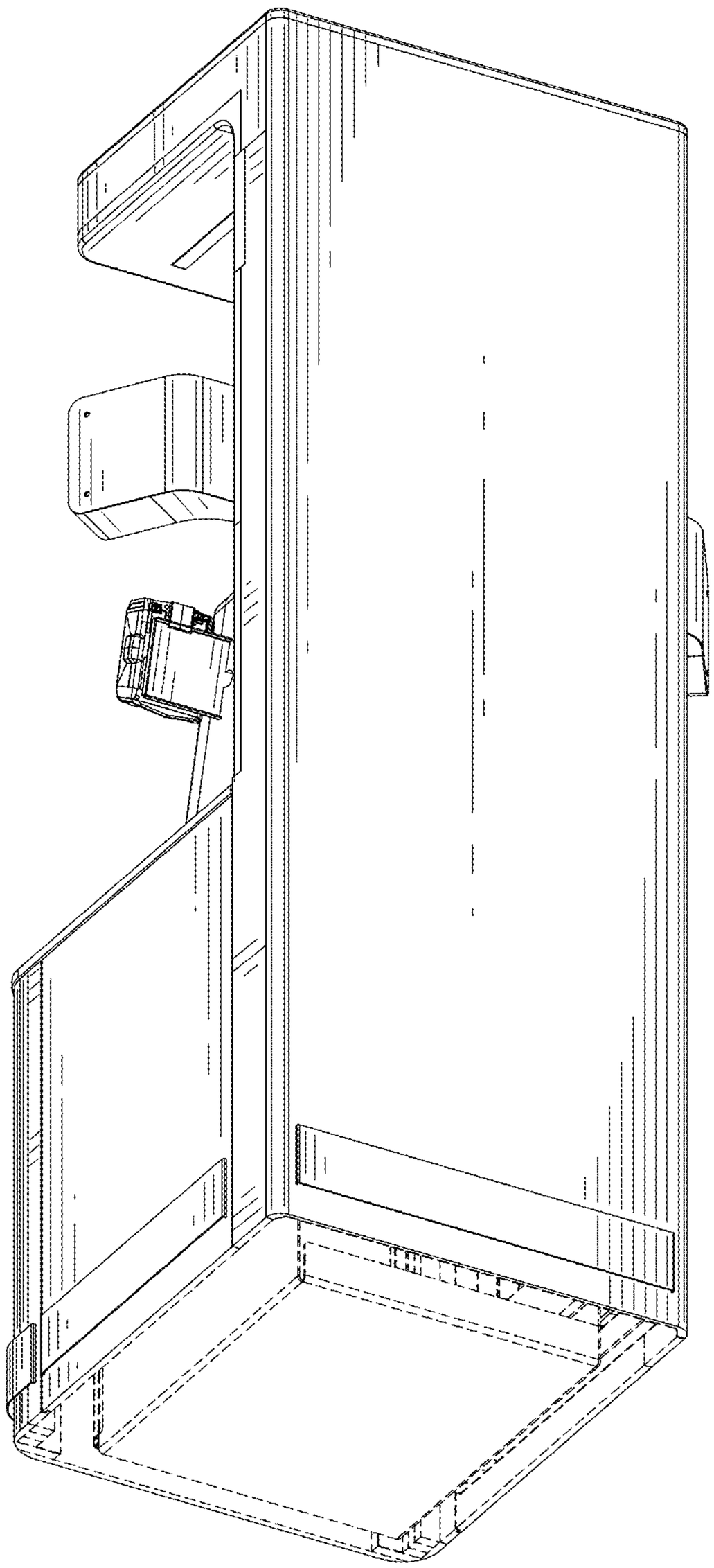


FIG. 2

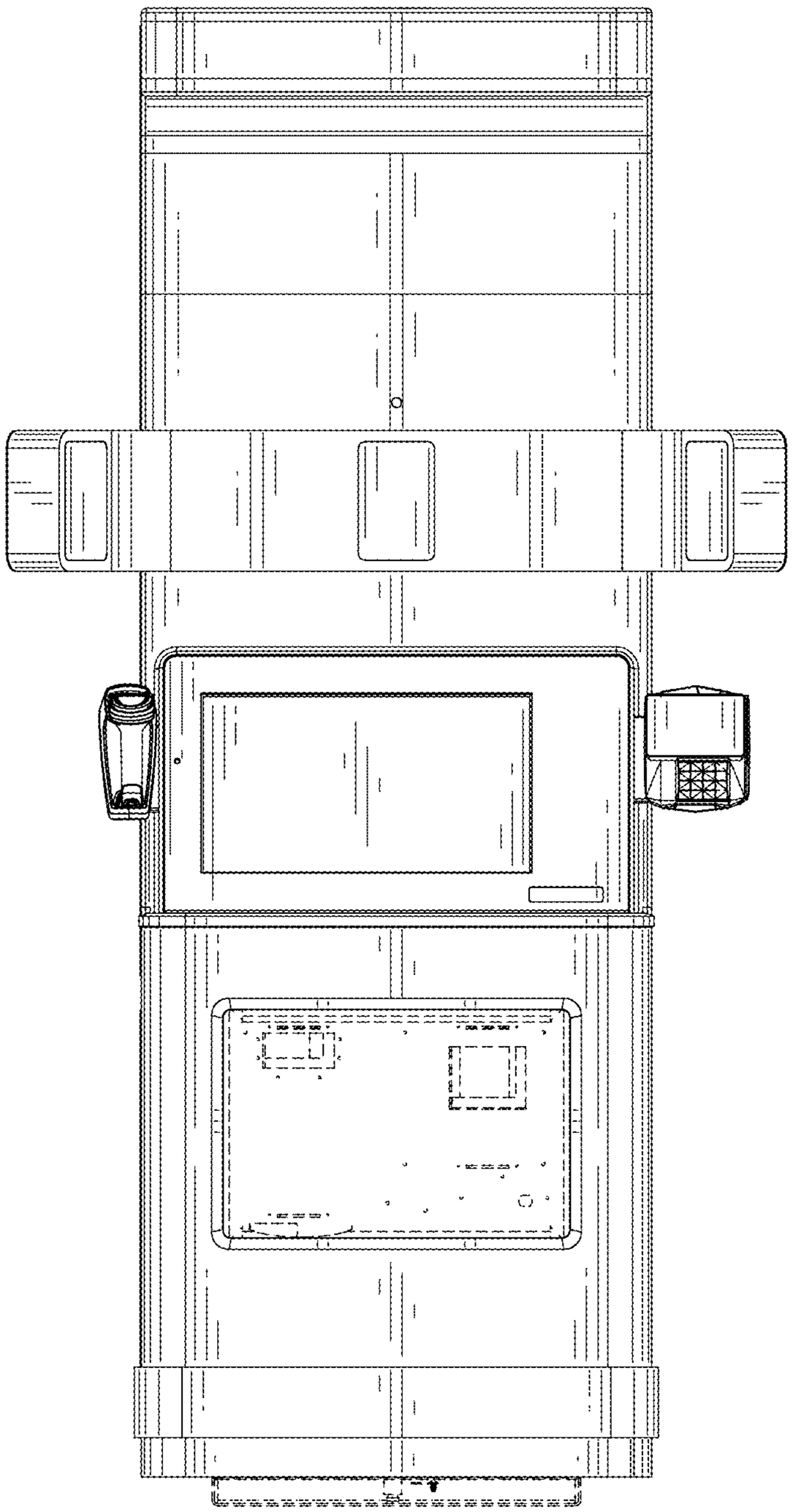


FIG. 3

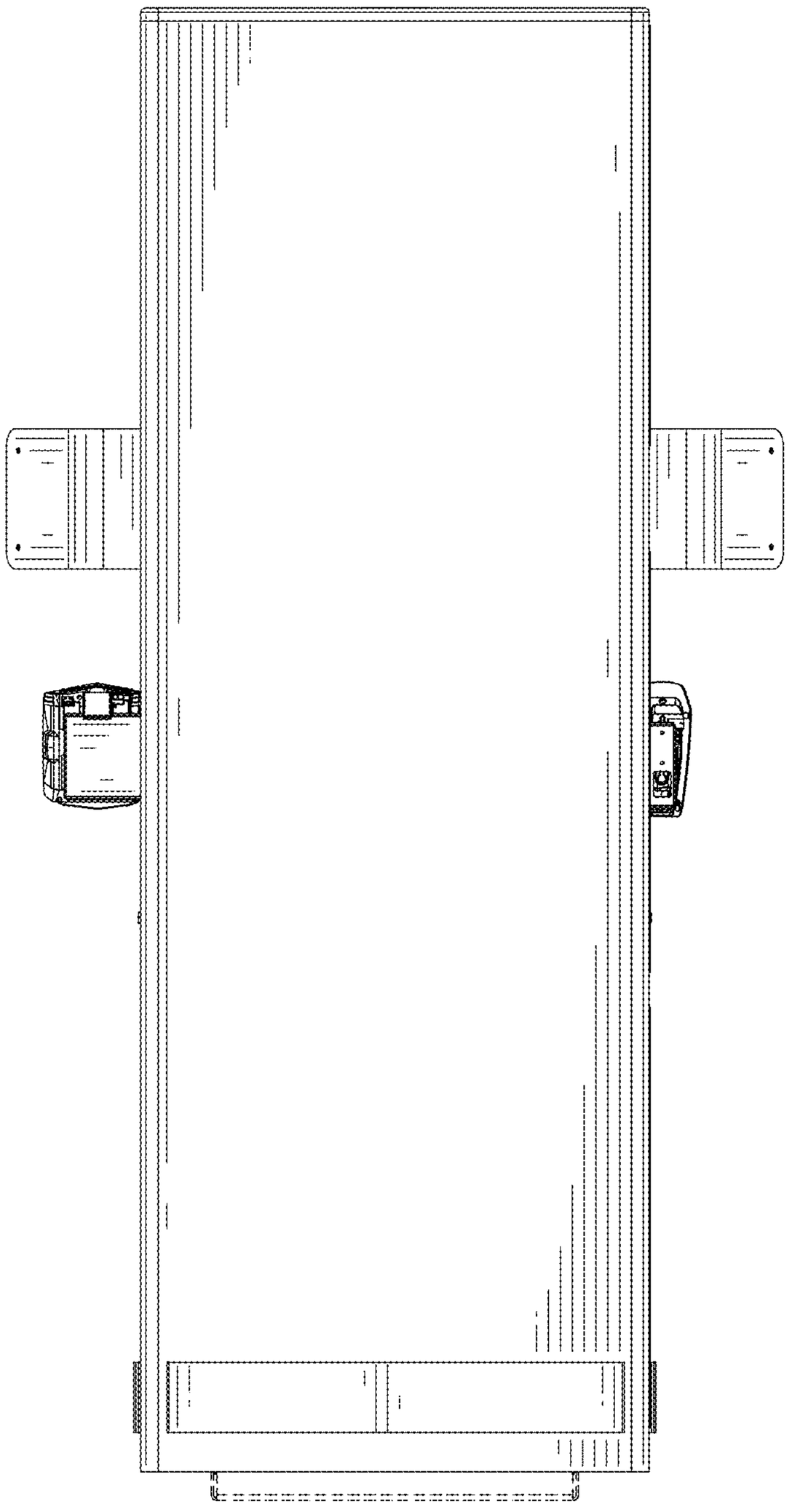


FIG. 4

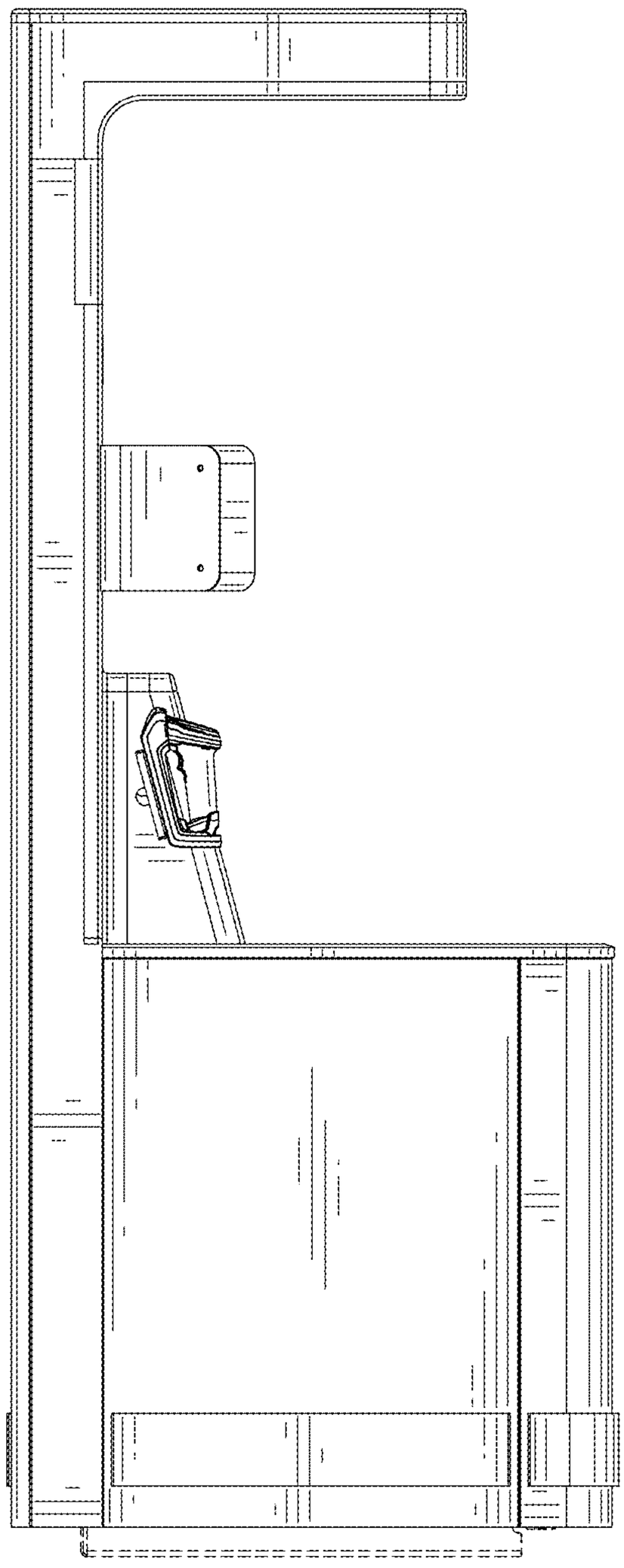


FIG. 5

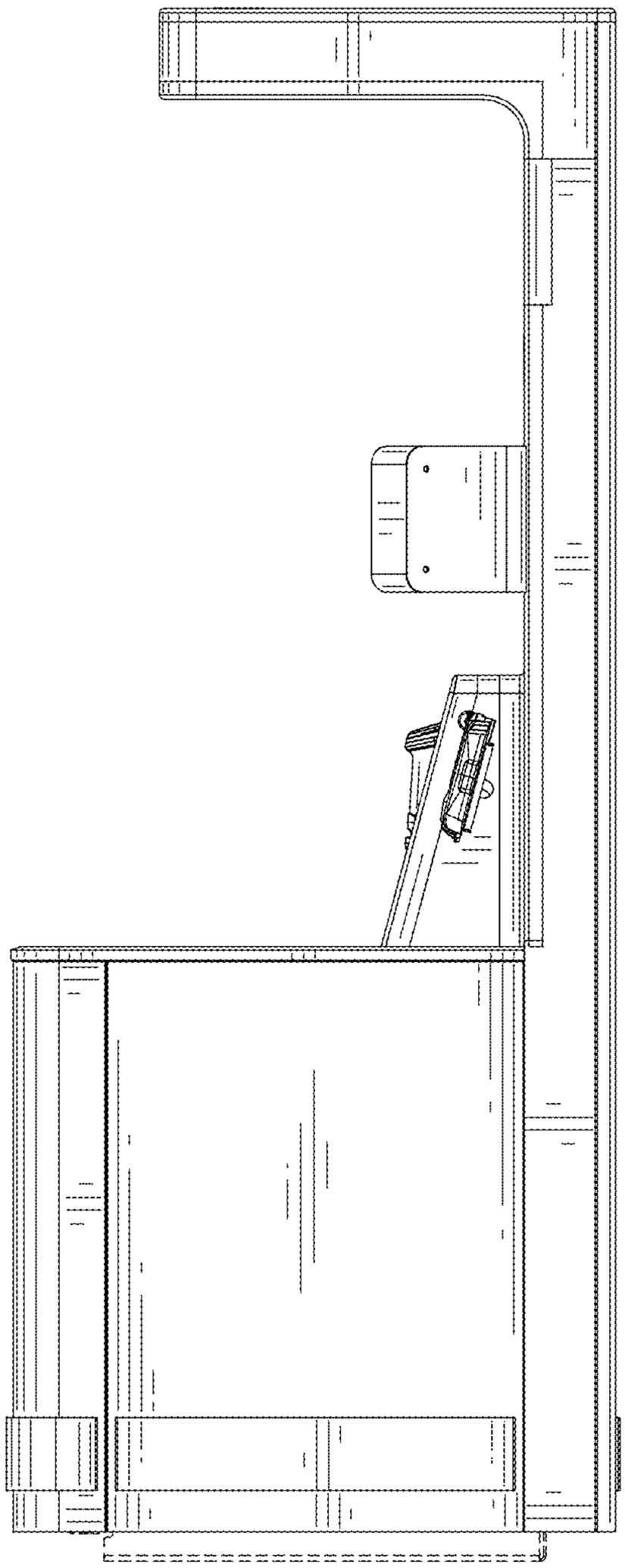


FIG. 6

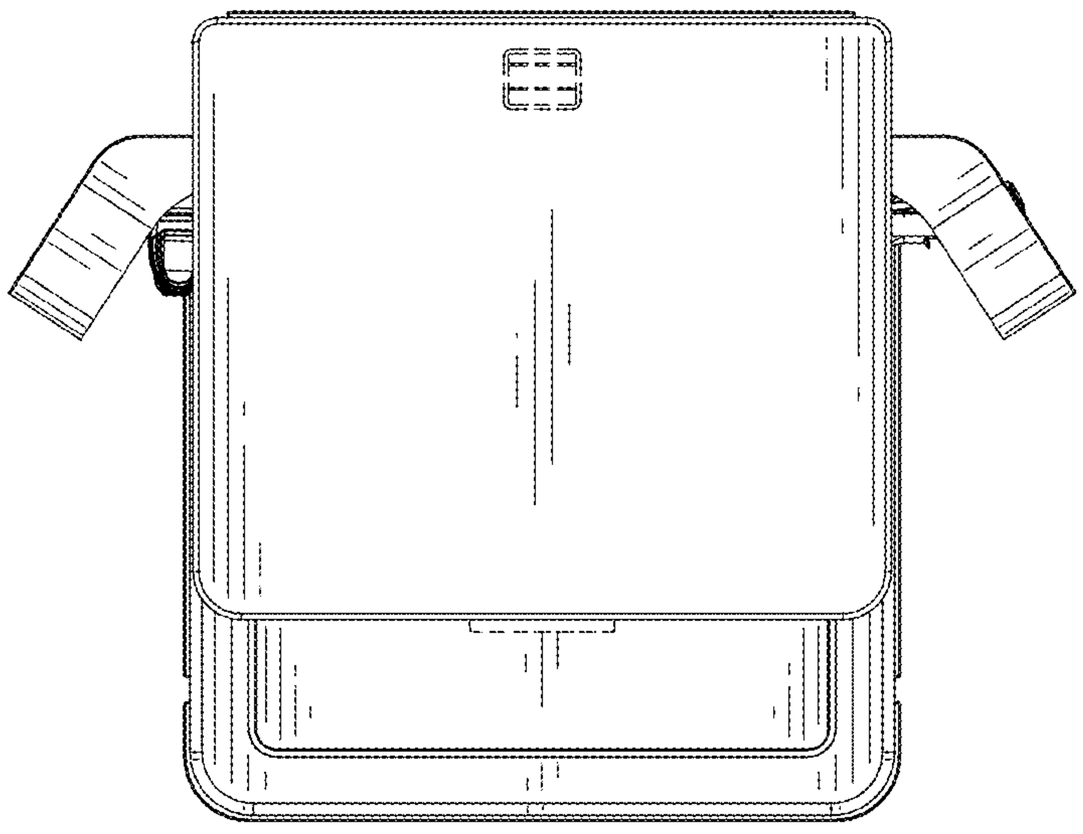


FIG. 7

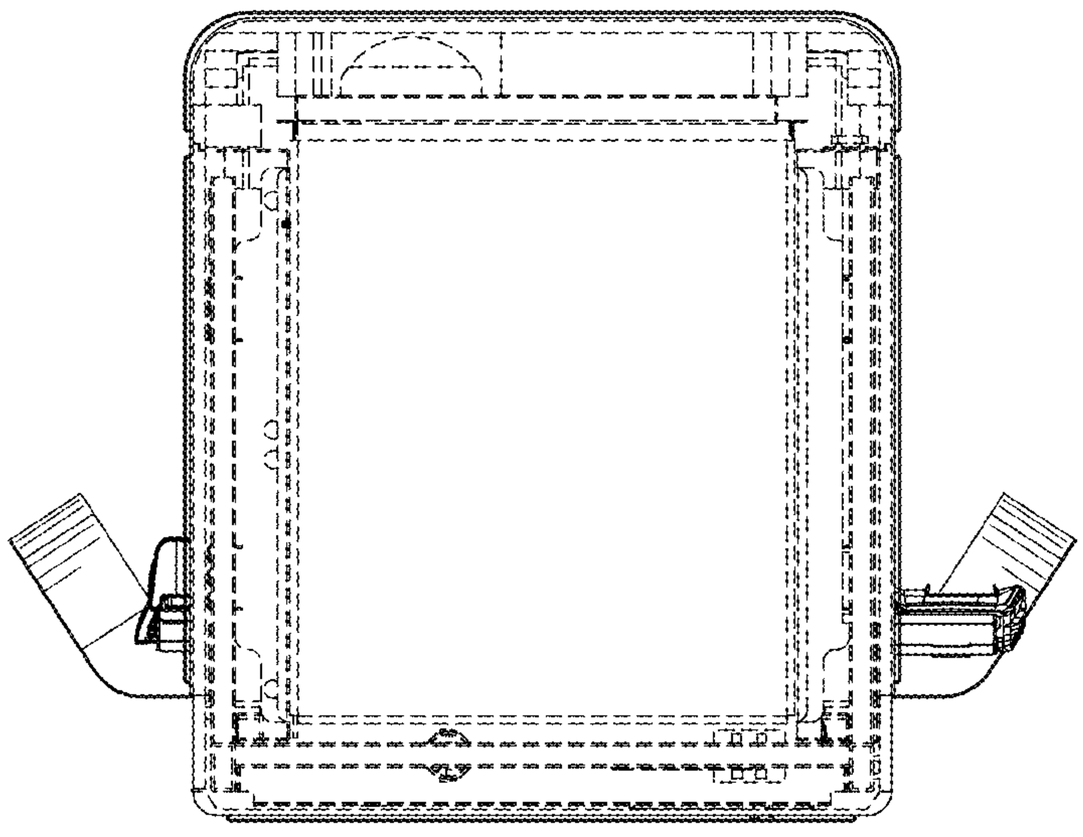


FIG. 8

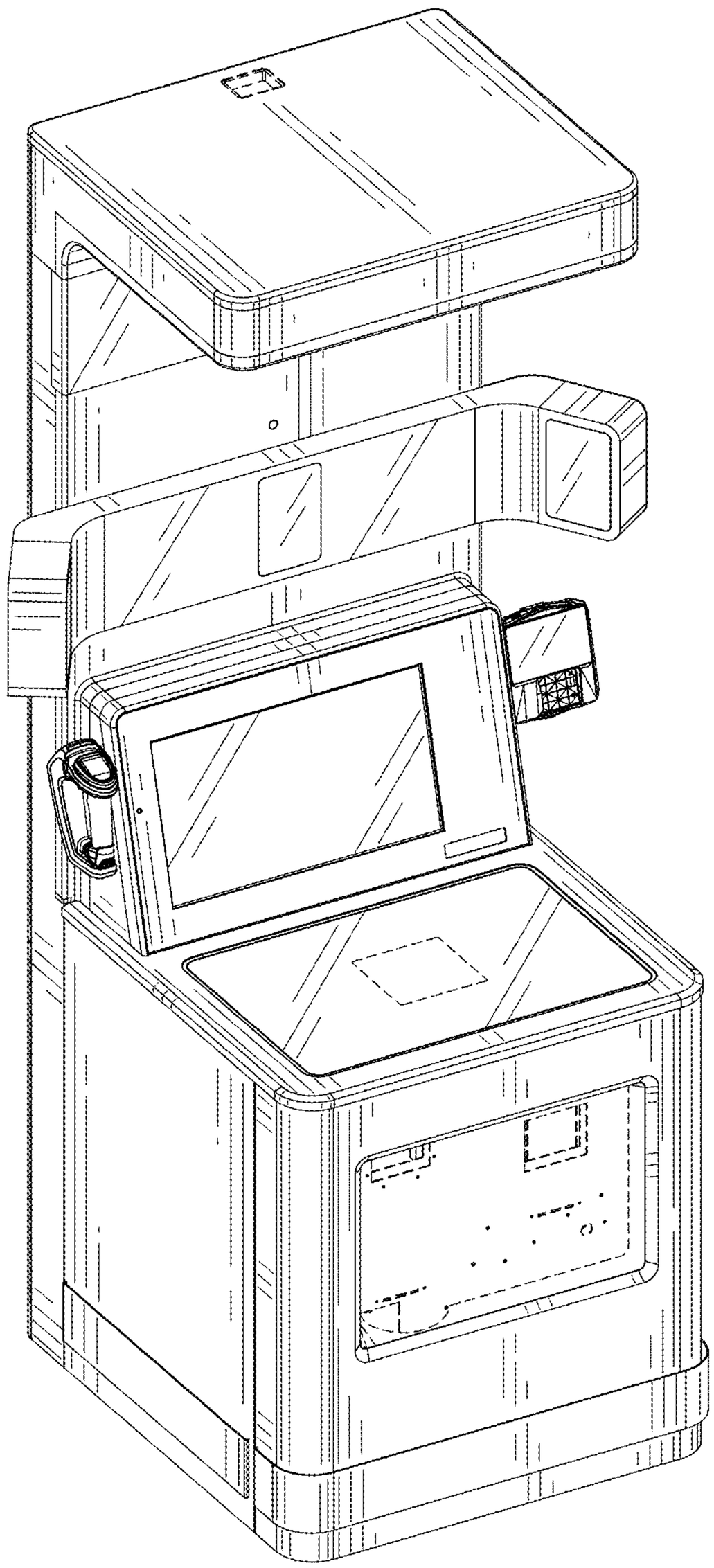


FIG. 9

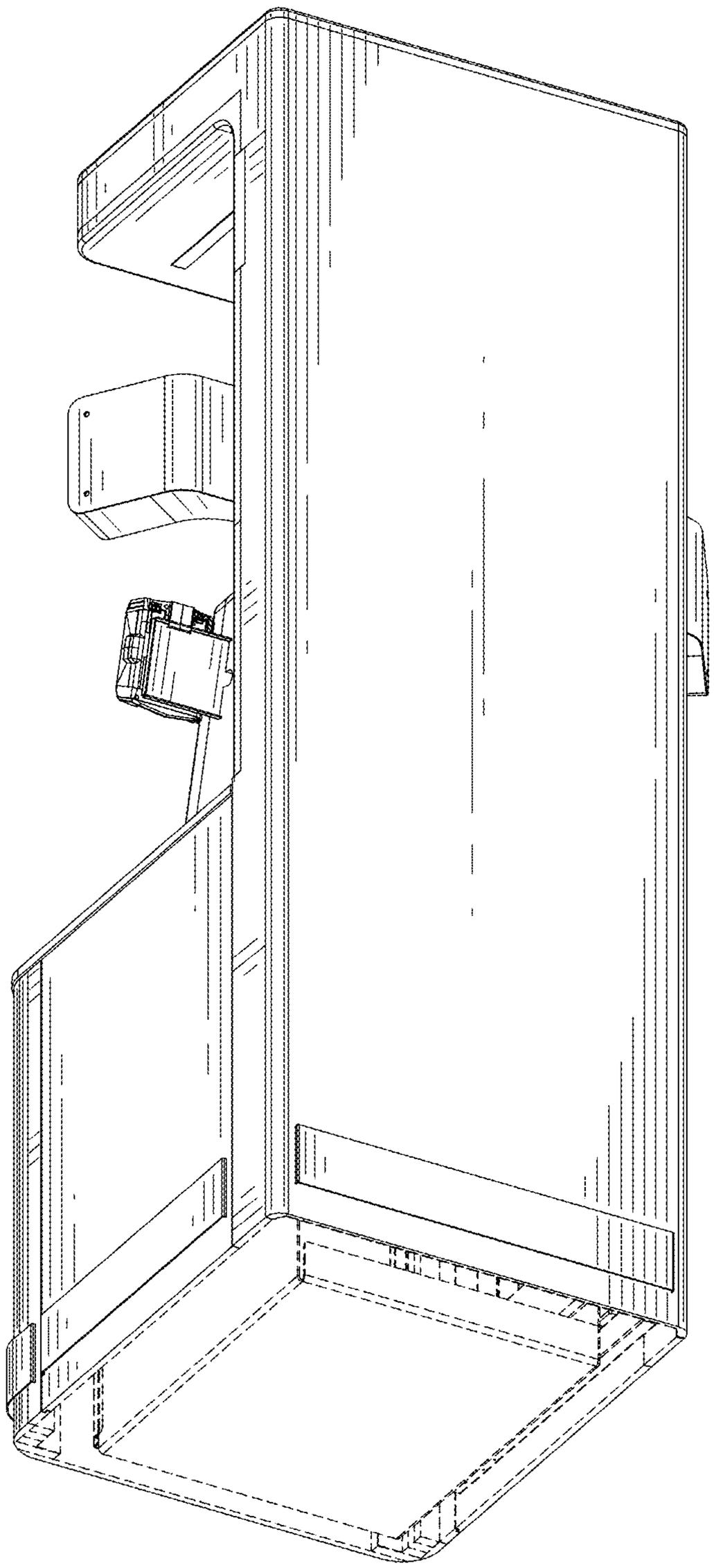


FIG. 10

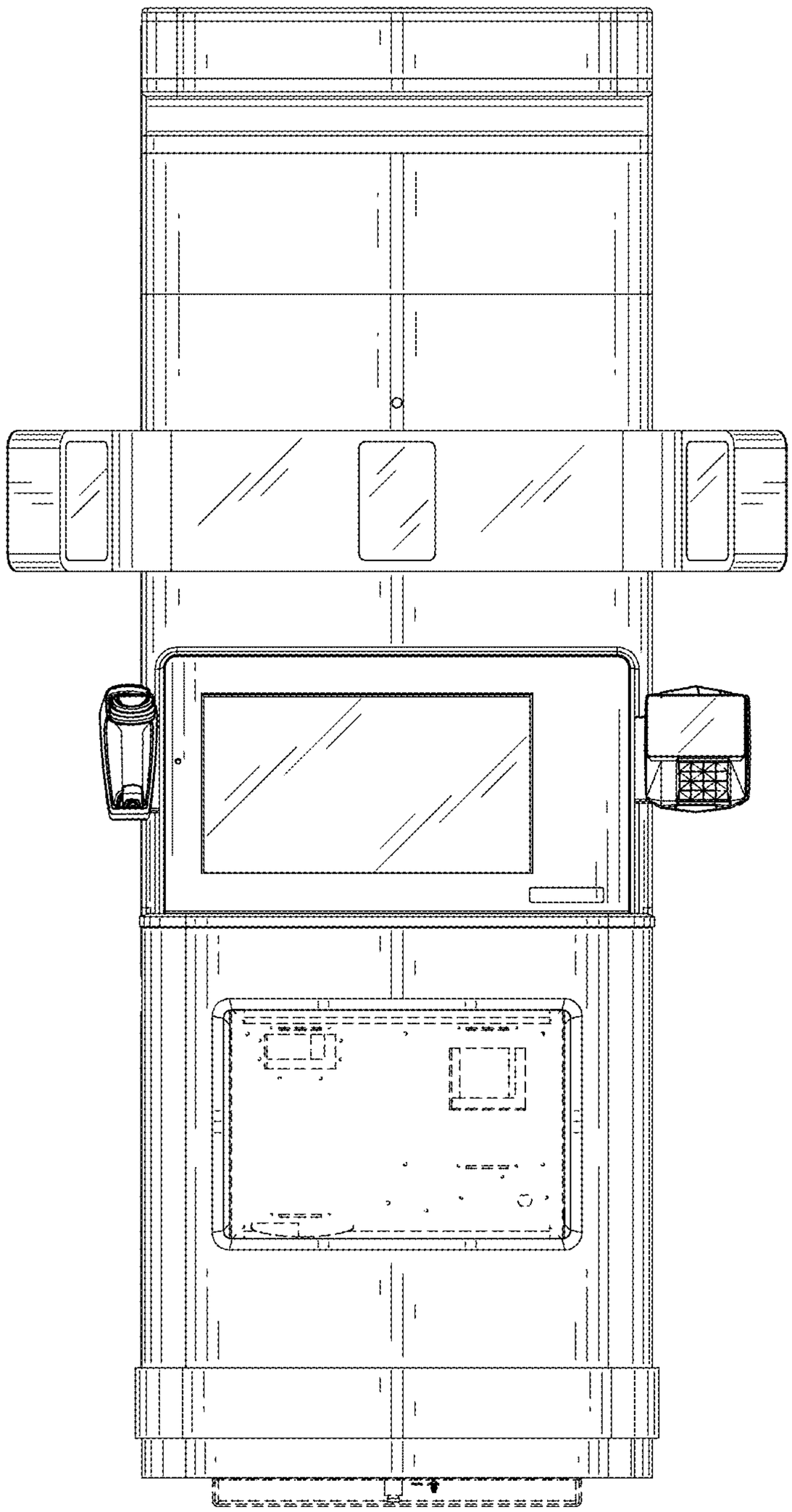


FIG. 11

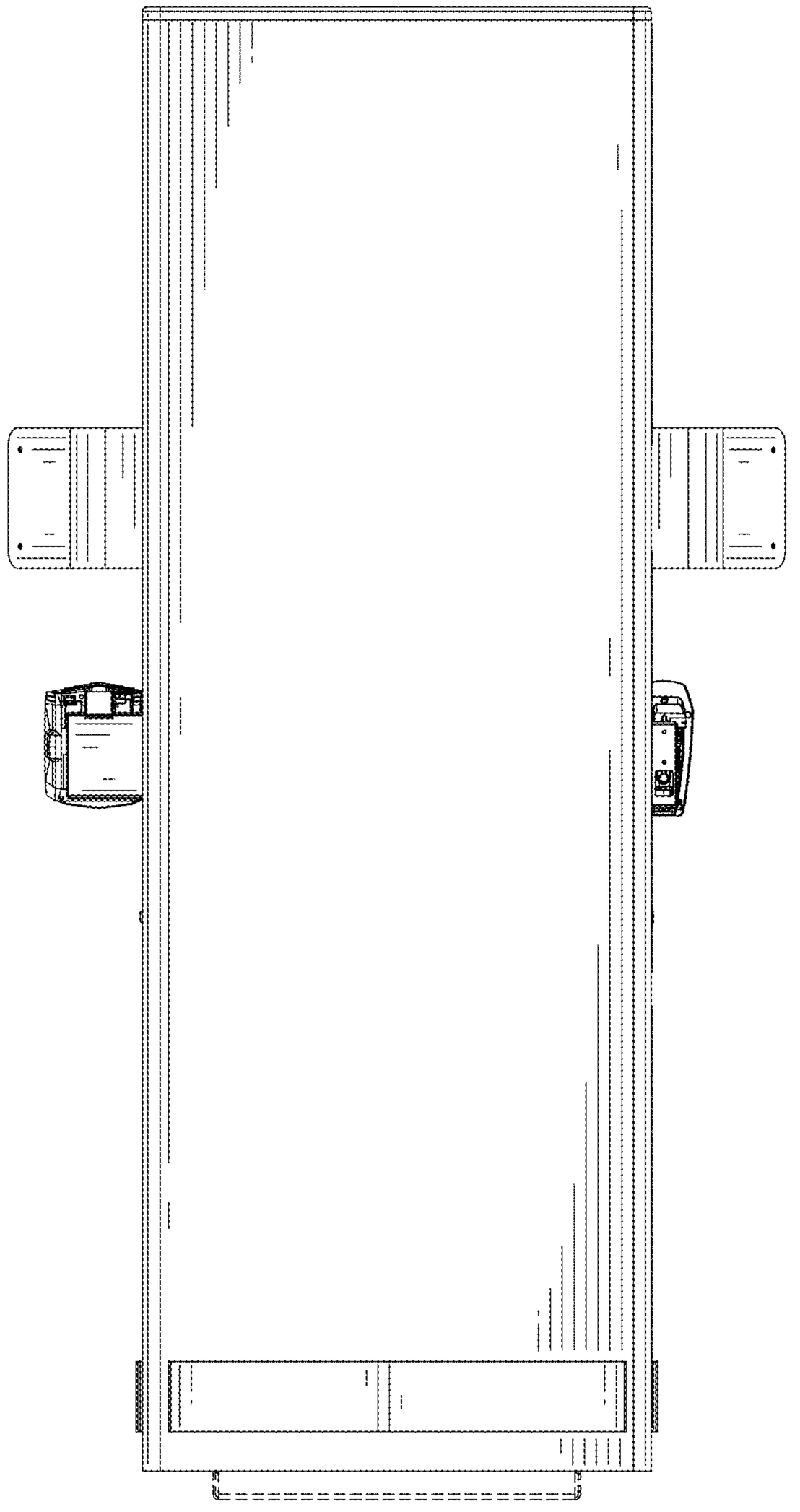


FIG. 12

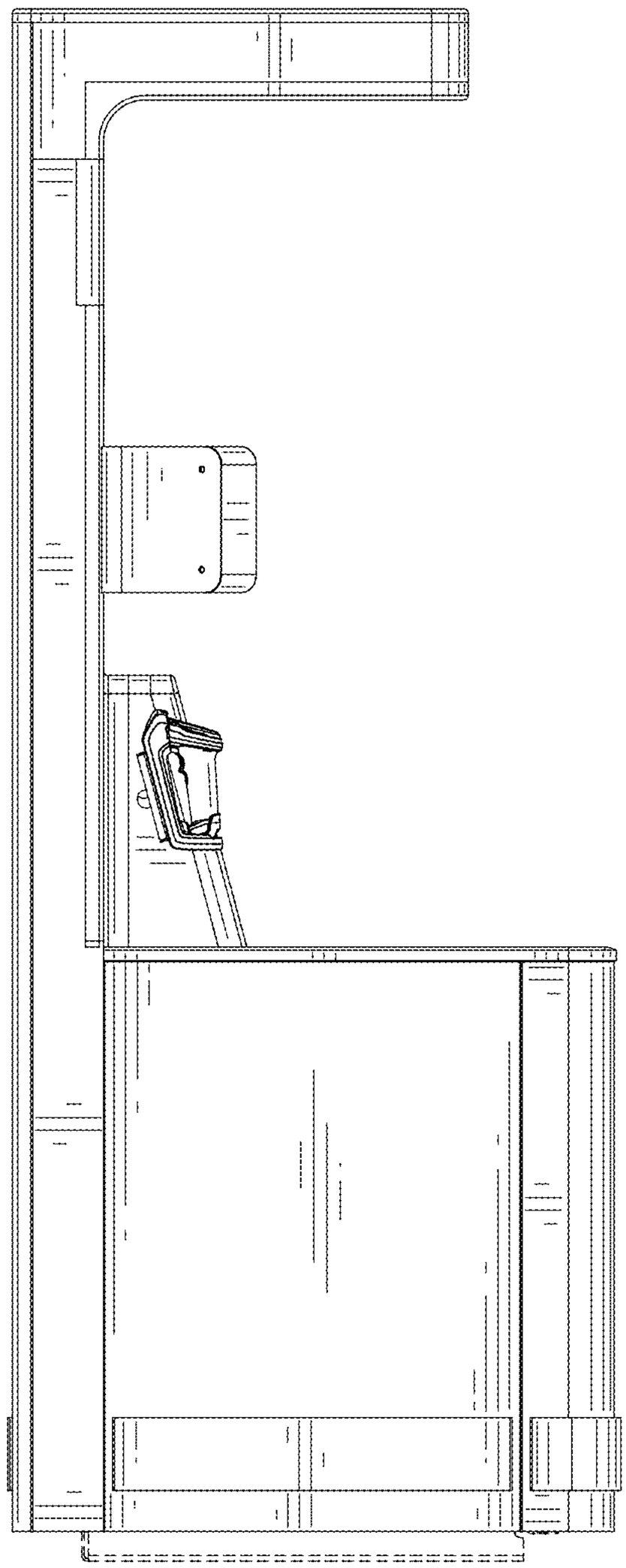


FIG. 13

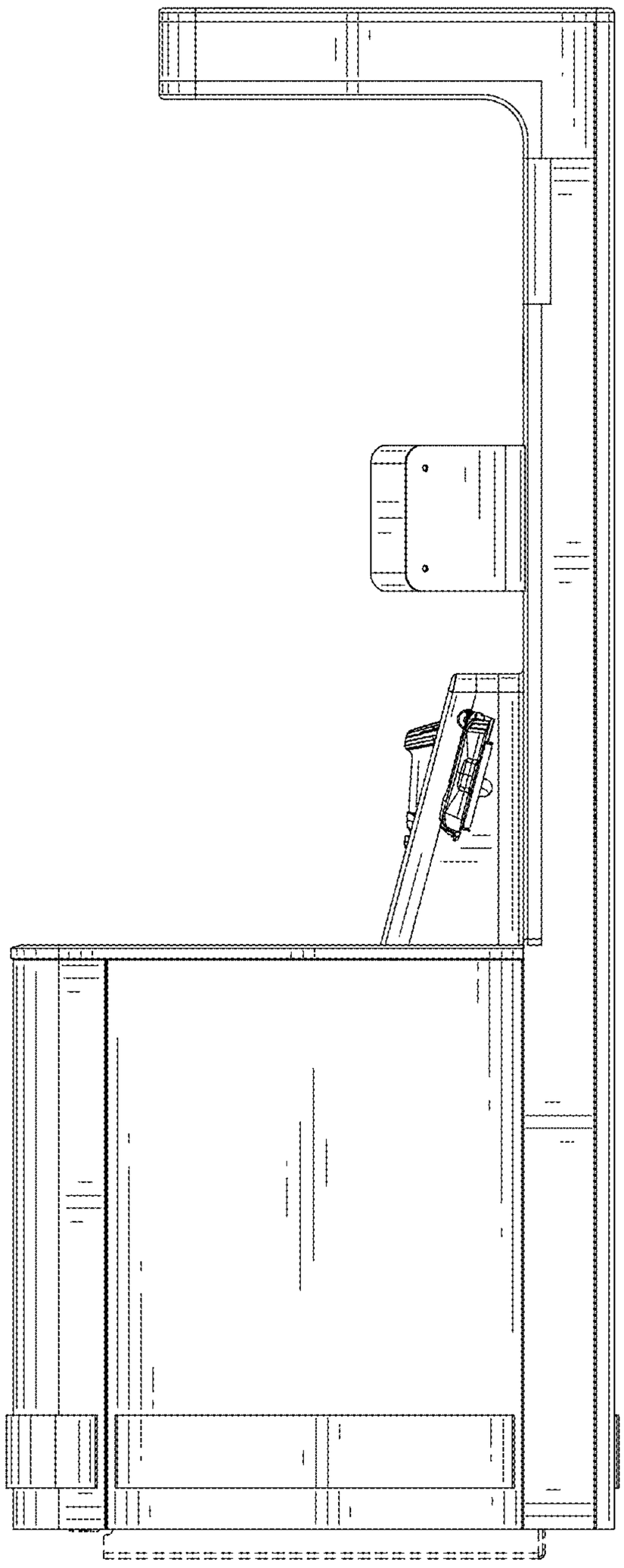


FIG. 14

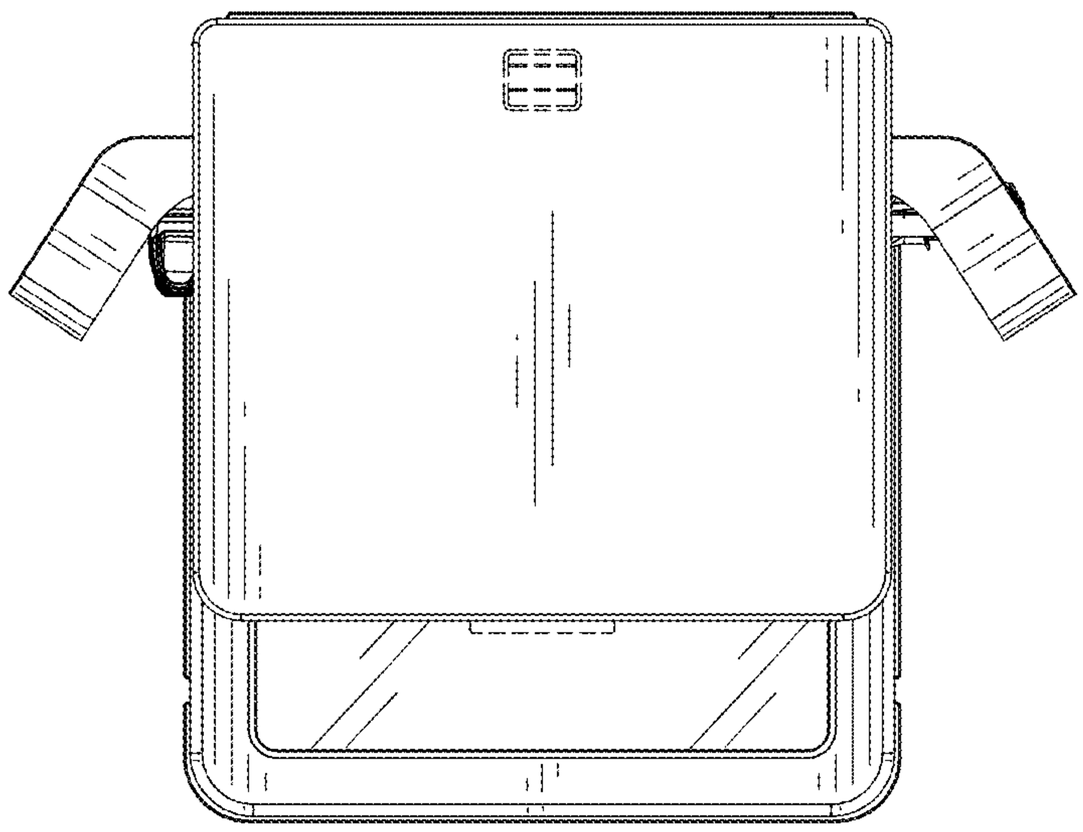


FIG. 15

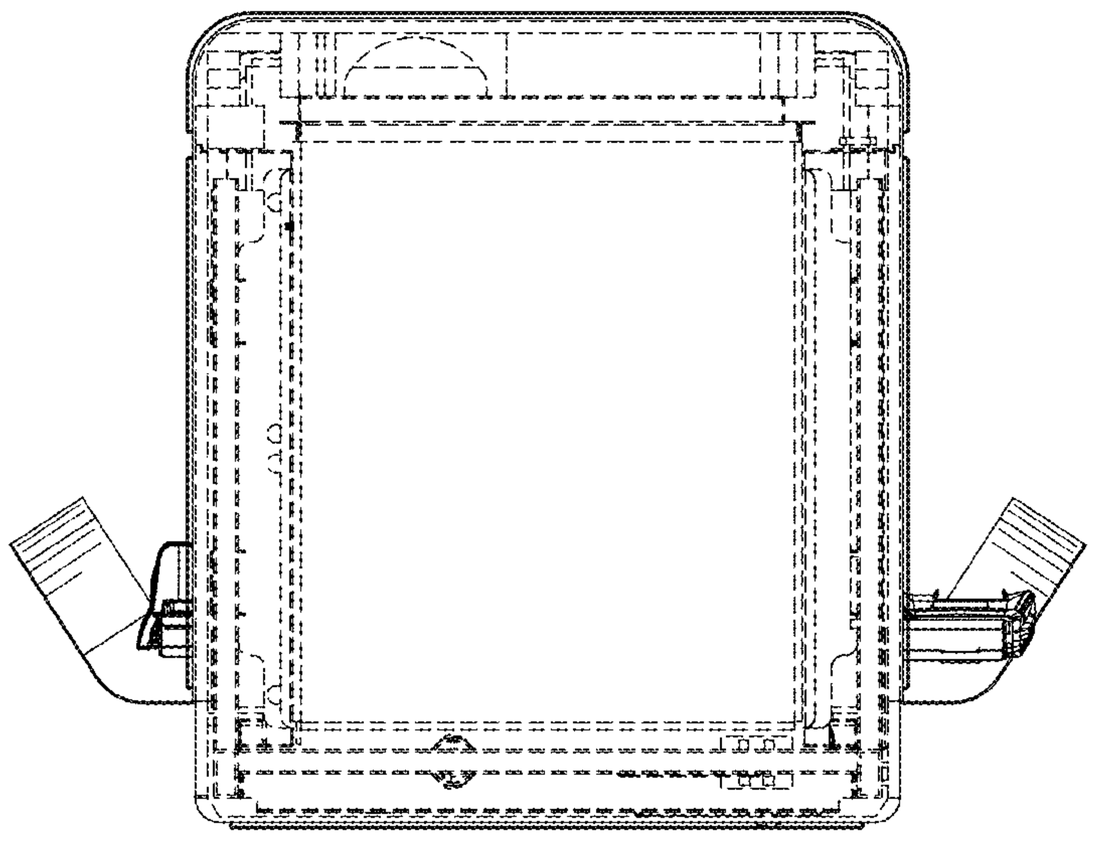


FIG. 16