



(12) **United States Design Patent**
Kang

(10) **Patent No.:** **US D1,032,845 S**
(45) **Date of Patent:** **** Jun. 25, 2024**

(54) **NEAR-INFRARED IMAGING DEVICE**

FOREIGN PATENT DOCUMENTS

(71) Applicant: **SHIMADZU CORPORATION**, Kyoto (JP)

CN 307363359 * 5/2022
CN 307564374 * 9/2022

(Continued)

(72) Inventor: **Hyeri Kang**, Kyoto (JP)

OTHER PUBLICATIONS

(73) Assignee: **SHIMADZU CORPORATION**, Kyoto (JP)

“Itnonline: Near-infrared Fluorescence Imaging System.” Found online at itnonline.com. Oct. 12, 2023. Reference dated Sep. 11, 2018. Retrieved from <https://www.itnonline.com/content/near-infrared-fluorescence-imaging-system>.*

(Continued)

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

(21) Appl. No.: **29/842,969**

Primary Examiner — Kendra Leslie Hamilton

Assistant Examiner — Elizabeth S Struble

(22) Filed: **Jun. 17, 2022**

(74) *Attorney, Agent, or Firm* — JCIPRNET

(30) **Foreign Application Priority Data**

Mar. 18, 2022 (JP) 2022-005685 D

(51) **LOC (14) Cl.** **24-01**

(52) **U.S. Cl.**
USPC **D24/160**

(58) **Field of Classification Search**

USPC D24/107, 158, 159, 160, 161, 183, 184,
D24/185, 186, 216, 232
CPC .. A61B 5/05; A61B 5/055; A61B 6/03; A61B
6/035; A61B 6/4411; A61B 6/4447; A61B
6/4405; A61B 6/4435; A61B 6/4441;
A61B 8/4405; A61B 8/4411; A61B
8/4427; A61B 8/462; A61B 8/0437;
G01N 2035/00306; G01N 2035/00326;
G01N

(Continued)

(56) **References Cited**

U.S. PATENT DOCUMENTS

D391,638 S * 3/1998 Coons D24/160
D394,712 S * 5/1998 Henderson D24/160

(Continued)

(57) **CLAIM**

The ornamental design for a near-infrared imaging device, as shown and described.

DESCRIPTION

FIG. 1 is a top, front, left perspective view of a near-infrared imaging device, shown in a first configuration with the arm partially extended;

FIG. 2 is a front elevation view thereof;

FIG. 3 is a rear elevation view thereof;

FIG. 4 is a left side elevation view thereof;

FIG. 5 is a right side elevation view thereof;

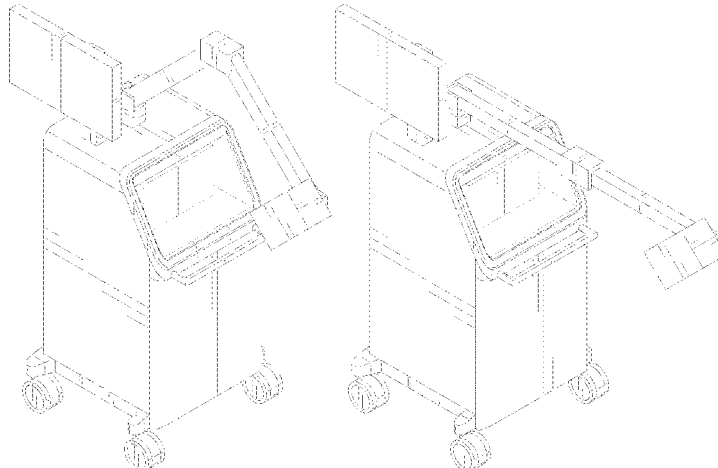
FIG. 6 is a top plan view thereof;

FIG. 7 is a bottom plan view thereof;

FIG. 8 is a top, front, left perspective view of the near-infrared imaging device of FIG. 1, shown in a second configuration with the arm folded for clarity of disclosure; and,

FIG. 9 is a top, front, left perspective view of the near-infrared imaging device of FIG. 1, shown in a third configuration with the arm fully extended for clarity of disclosure.

(Continued)



In the drawings, the equal-length broken lines depict portions of the near-infrared imaging device that form no part of the claimed design.

1 Claim, 9 Drawing Sheets

- (58) **Field of Classification Search**
 CPC ... 2035/00336; G01N 2030/027; G01N 21/76;
 G01N 21/6428
 See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

D426,892	S	*	6/2000	Beale	.....	D24/160
D712,037	S	*	8/2014	Hansen	.....	D24/160
D727,504	S	*	4/2015	Ninomiya	.....	D24/160
D730,524	S	*	5/2015	Kim	.....	D24/158
D785,183	S	*	4/2017	Ogura	.....	D24/158
D843,585	S	*	3/2019	Wu	.....	D24/160
D910,183	S	*	2/2021	Ritter	.....	D24/158
D993,420	S	*	7/2023	Behrendt	.....	D24/185
2023/0067560	A1	*	3/2023	Nagatsuka	.....	A61B 6/486
2023/0277140	A1	*	9/2023	Kim	.....	A61B 6/4441 600/300
2023/0277148	A1	*	9/2023	Okumura	.....	A61B 6/4452 378/62

FOREIGN PATENT DOCUMENTS

CN	307777168	*	1/2023
GB	6302771	*	8/2023

OTHER PUBLICATIONS

“BusinessWire: Smart-C, World’s First Hyper-Portable Surgical Imaging System.” Found online at businesswire.com. Oct. 12, 2023. Reference dated Apr. 18, 2022. Retrieved from <https://www.businesswire.com/news/home/20220418005366/en/Smart-C-Worlds-First-Hyper-Portable-Surgical-Imaging-System-Receives-Prestigious-Medical-D>.*

“Axis: FDA Clears Faxitron CT for 3D Specimen Radiography.” Found online at axisimagingnews.com. Oct. 12, 2023. Reference dated May 11, 2018. Retrieved from <https://axisimagingnews.com/radiology-products/imaging-equipment/ct/fda-clears-faxitron-ct-3d-specimen-radiography>.*

“BusinessWire: Hologic Launches Trident HD Specimen Radiography System.” Found online at businesswire.com. Oct. 12, 2023. Reference dated Apr. 25, 2019. Retrieved from <https://www.businesswire.com/news/home/20190425005180/en/Hologic-Launches-Trident%C2%AE-HD-Specimen-Radiography-System-in-United-States-Canada-and-Eur>.*

* cited by examiner

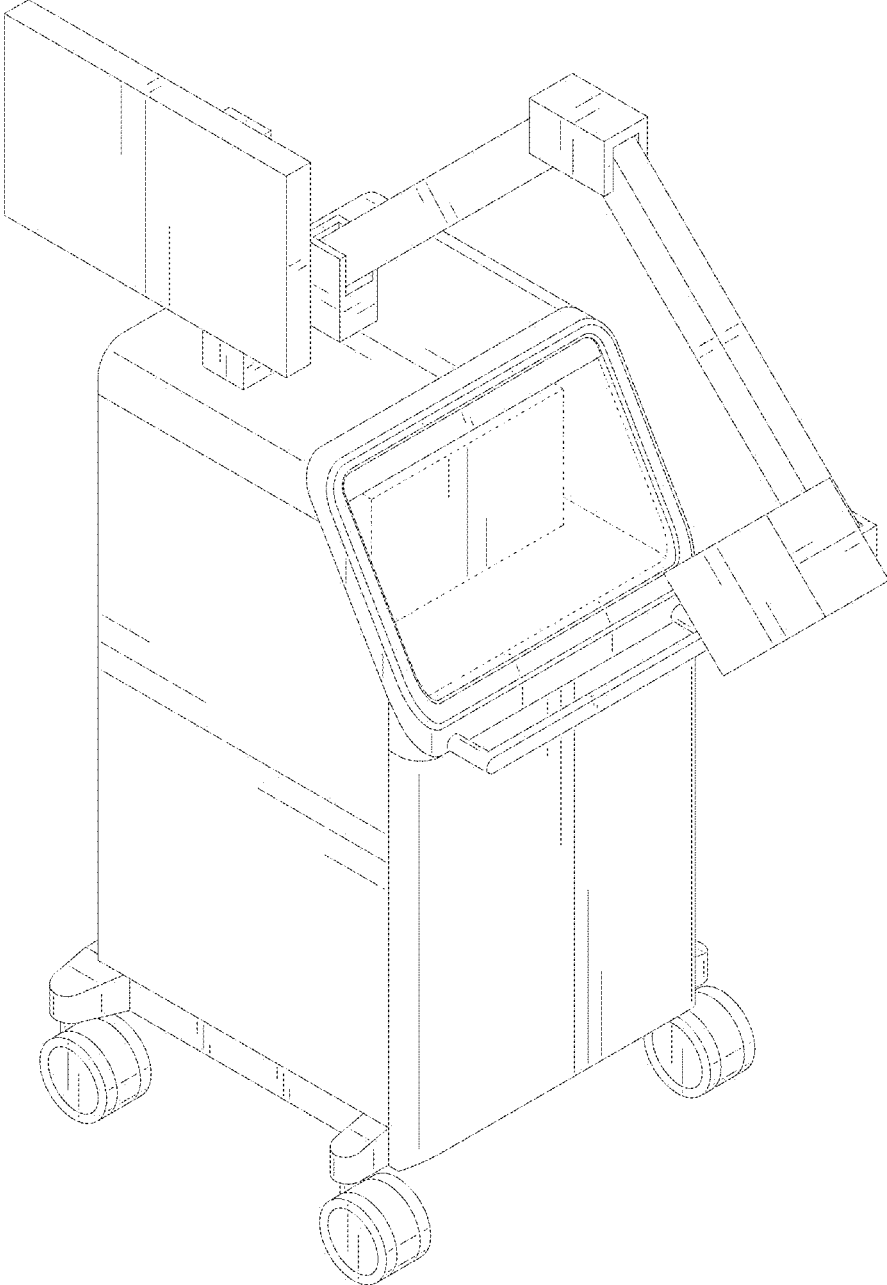


FIG. 1

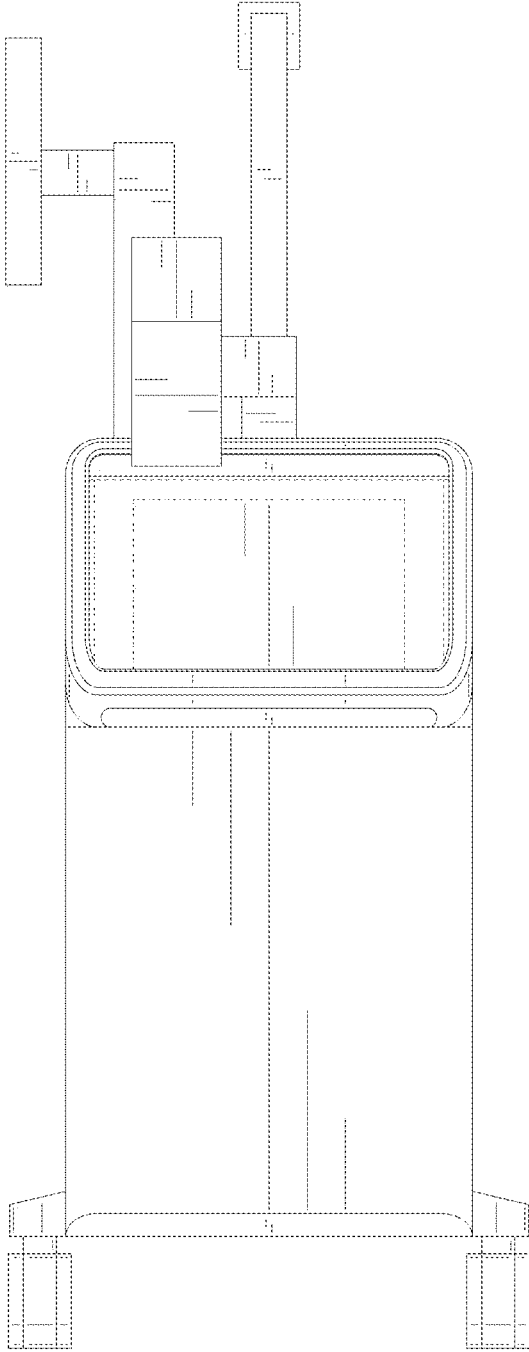


FIG. 2

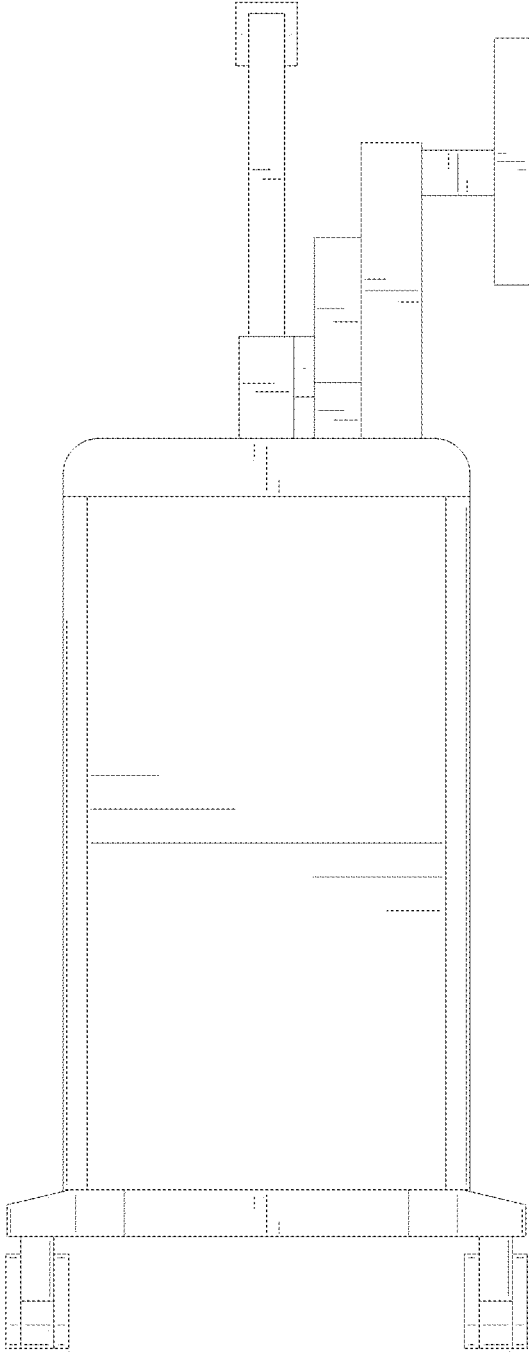


FIG. 3

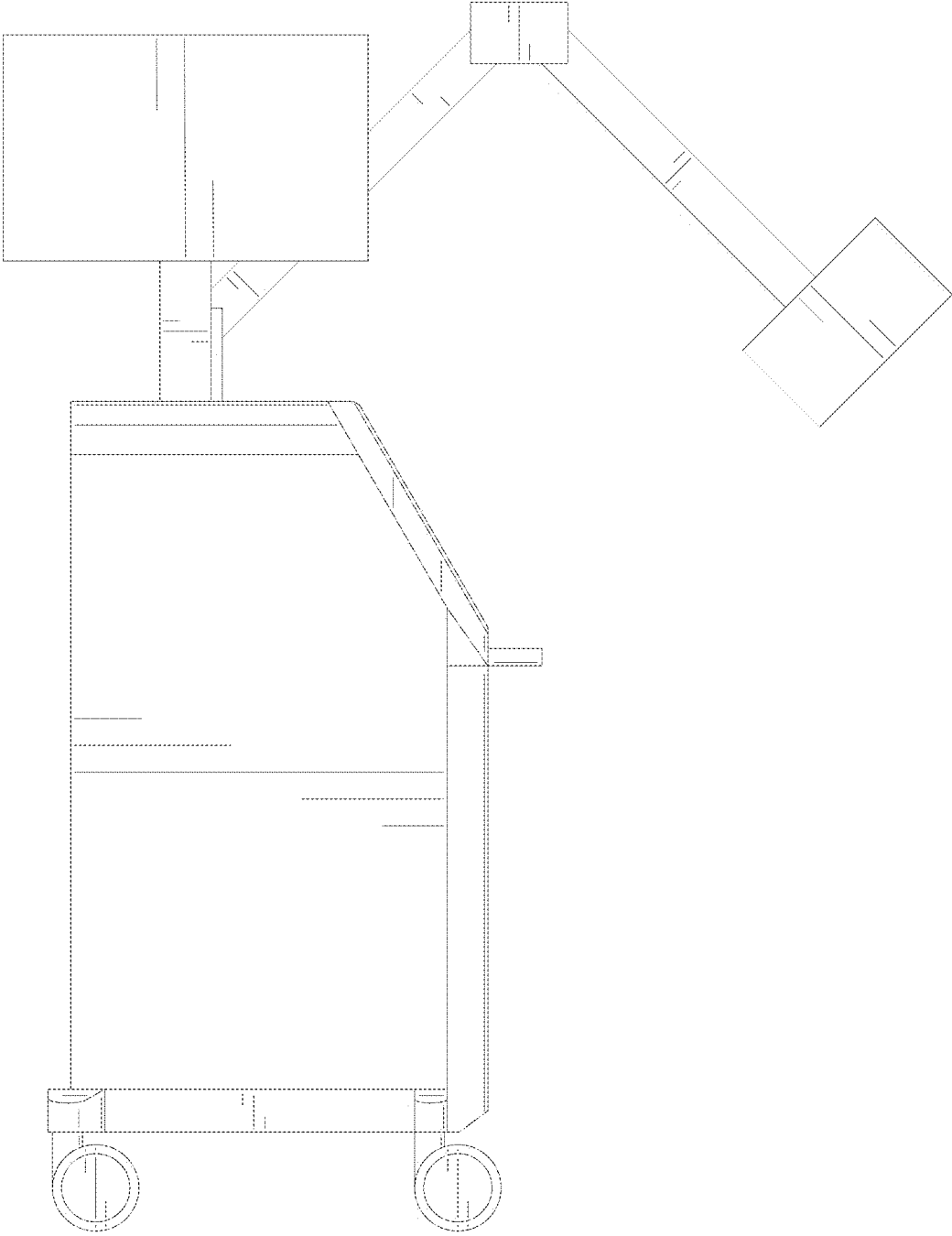


FIG. 4

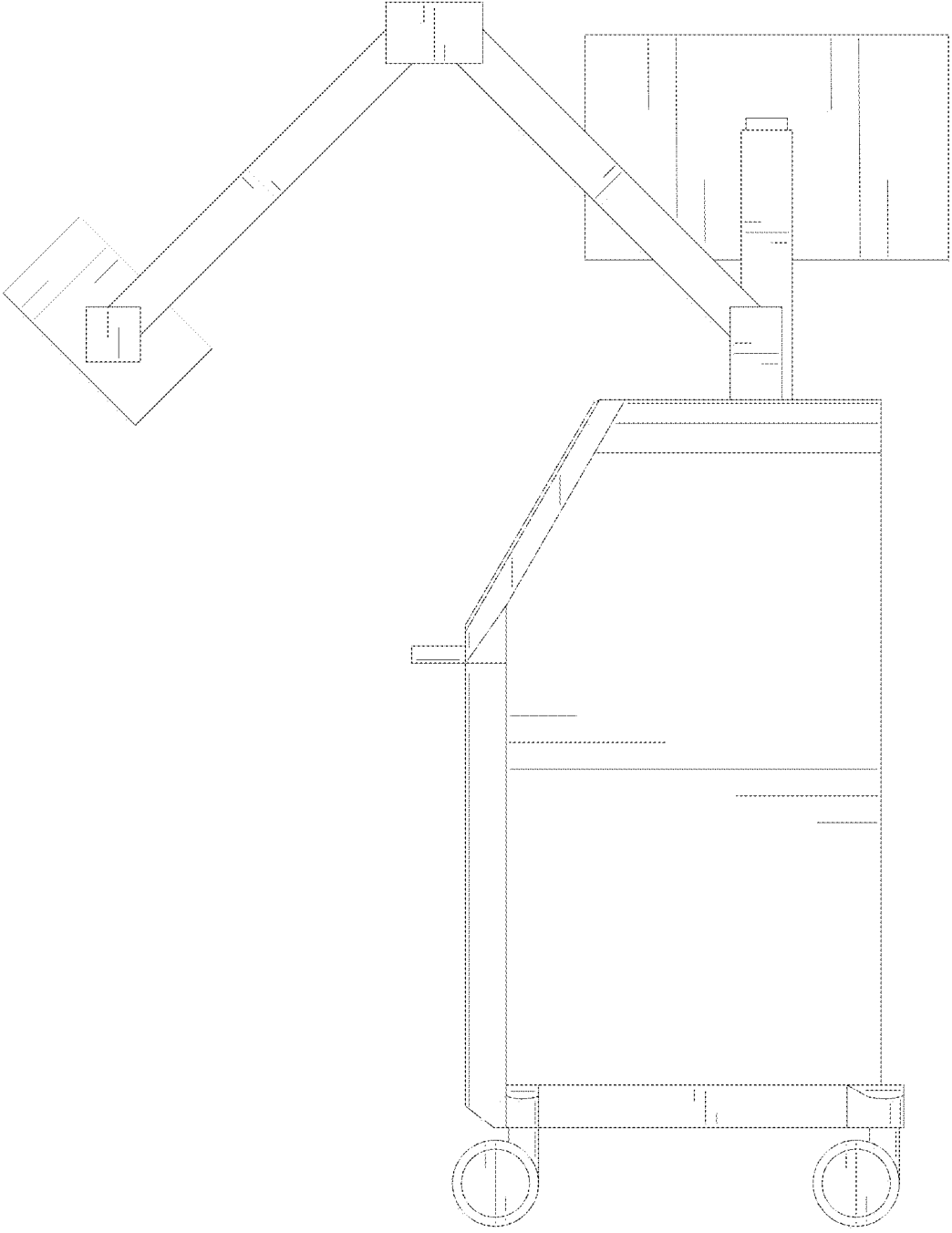


FIG. 5

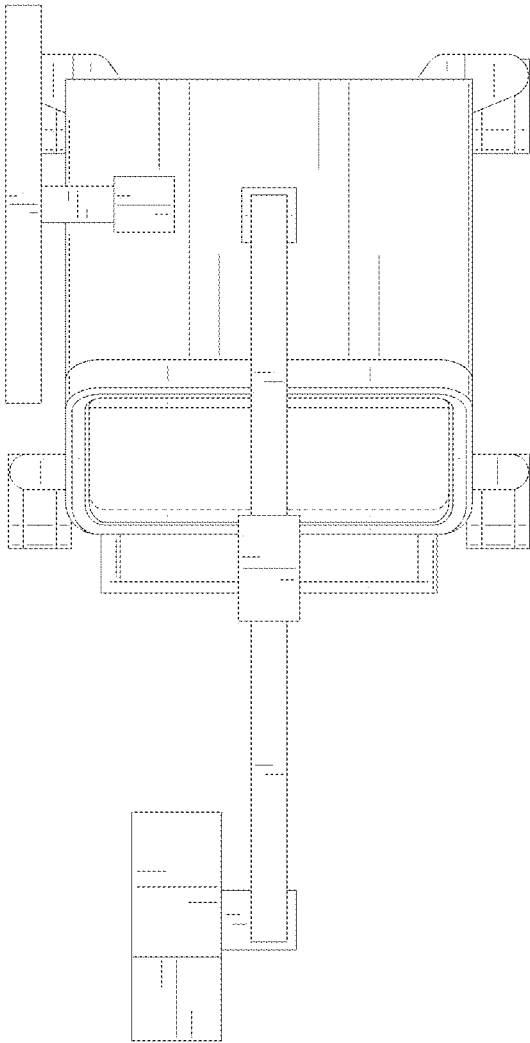


FIG. 6

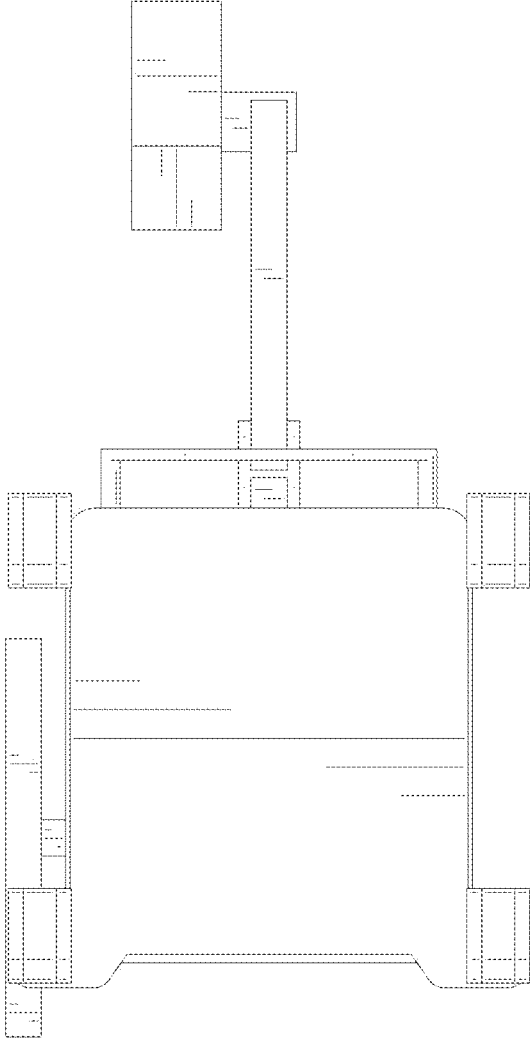


FIG. 7

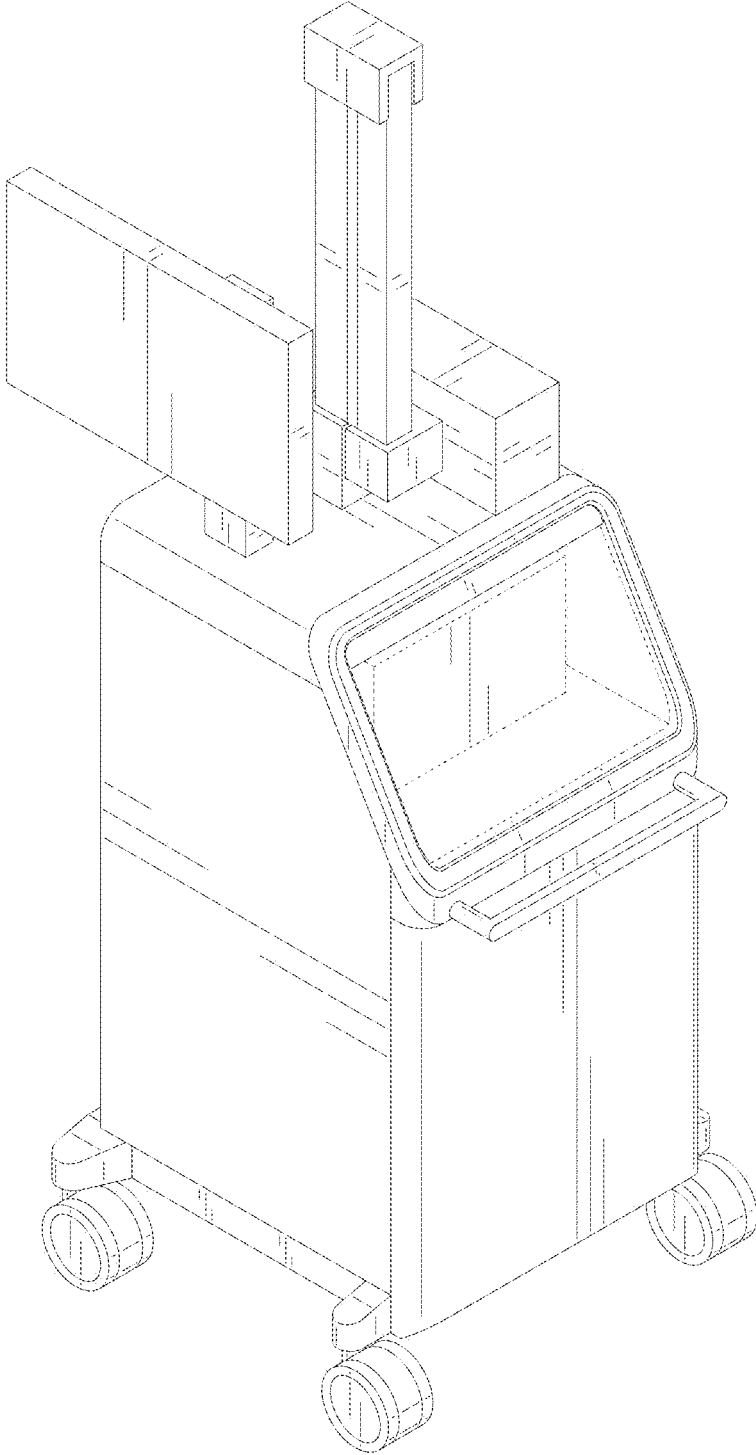


FIG. 8

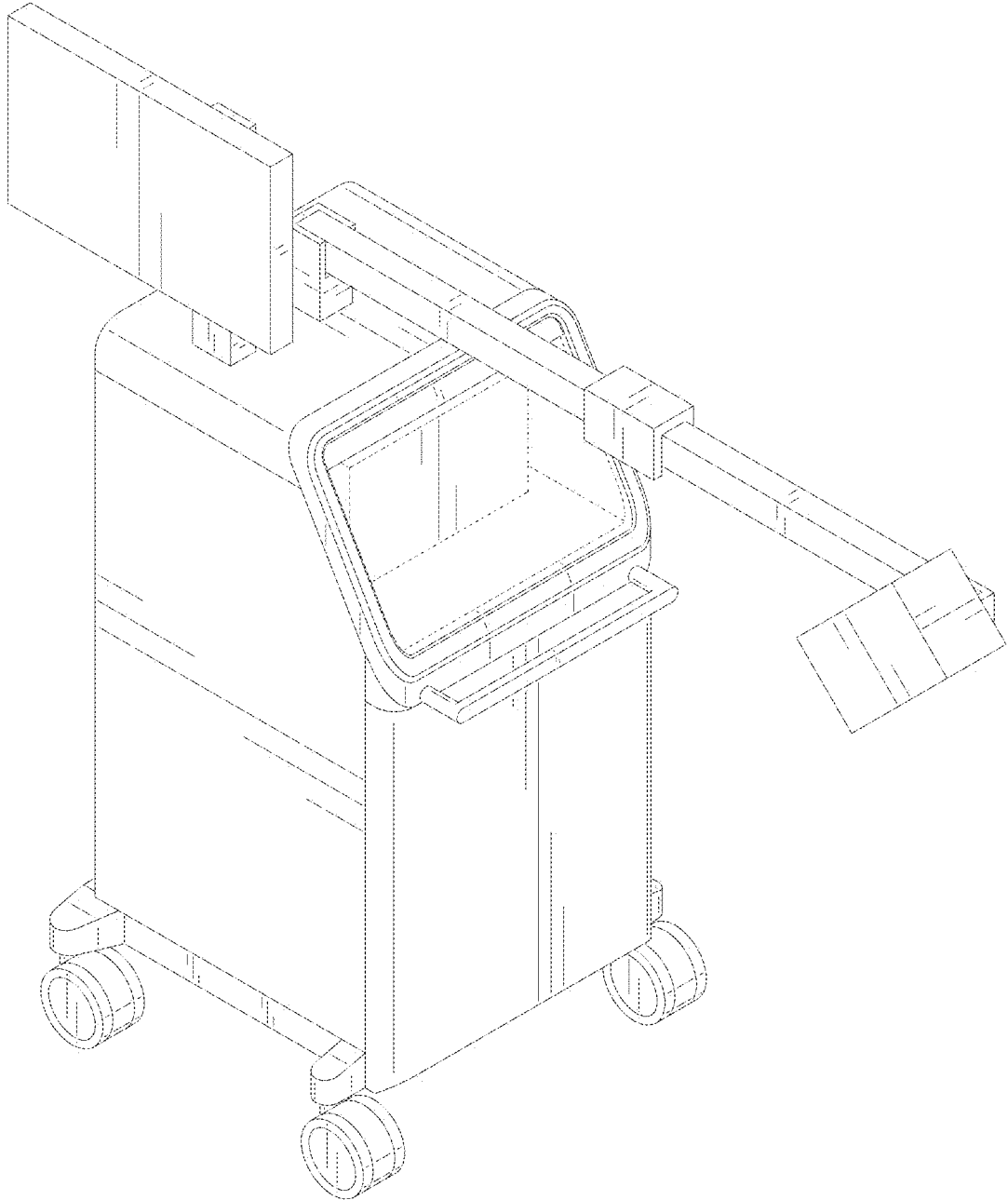


FIG. 9