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(12) United States Design Patent

Bailey et al.

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(54) **SURGICAL CONTROL APPARATUS**

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

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(52) **U.S. Cl.**
USPC **D24/185**

(58) **Field of Classification Search**
USPC D24/185, 164, 160, 158, 167; D34/14
CPC A61B 50/30; A61G 12/001
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

D486,915	S *	2/2004	Warschewske	D24/185
D550,362	S *	9/2007	Olivera	D24/185
D561,342	S *	2/2008	Zimmer	D24/185
D621,513	S *	8/2010	Cinqualbre	D24/185
8,286,977	B2 *	10/2012	Butler	A61G 12/001 280/47.34
D687,147	S *	7/2013	Yoshida	D24/185
D702,840	S *	4/2014	Blomquist	D24/164
D702,842	S *	4/2014	Hyde	D24/185
D712,042	S *	8/2014	Chung	D24/185
D730,011	S *	5/2015	McRorie	D34/14
D735,866	S *	8/2015	Assa	D24/185
D739,538	S *	9/2015	Bernal	D24/185
D753,310	S *	4/2016	Thakar	D24/185
9,463,069	B2 *	10/2016	Dunworth	A61B 50/30
D776,279	S *	1/2017	Newman	D24/164
D777,927	S *	1/2017	Choudhary	D24/167
D790,066	S *	6/2017	Lei	D24/158
D796,679	S *	9/2017	Dekock	D24/158
D827,139	S *	8/2018	Henderson	D24/160
D844,792	S *	4/2019	Choe	D24/186
10,350,015	B2 *	7/2019	Toth	
10,376,331	B2 *	8/2019	Cooper	

OTHER PUBLICATIONS

Vertut, Jean and Phillipe Coiffet, Robot Technology: Teleoperation and Robotics Evolution and Development, English translation, Prentice-Hall, Inc., Inglewood Cliffs, NJ, USA 1986, vol. 3A, 332 pages.

* cited by examiner

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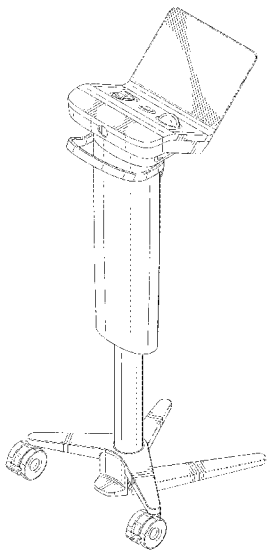
(57) **CLAIM**

The ornamental design for a surgical control apparatus, as shown and described.

DESCRIPTION

FIG. **1** is a perspective view of a surgical control apparatus showing our new design;
FIG. **2** is a front elevational view thereof;
FIG. **3** is a rear elevational view thereof;
FIG. **4** is a right side elevational view thereof;
FIG. **5** is a left side elevational view thereof;
FIG. **6** is a top plan view thereof;
FIG. **7** is a bottom plan view thereof; and,
FIGS. **8** and **9** are additional perspective views thereof.
The surgical control apparatus illustrated in FIGS. **1-9** may be a surgical control apparatus such as, for example, a surgical control apparatus for lung surgery.

1 Claim, 8 Drawing Sheets



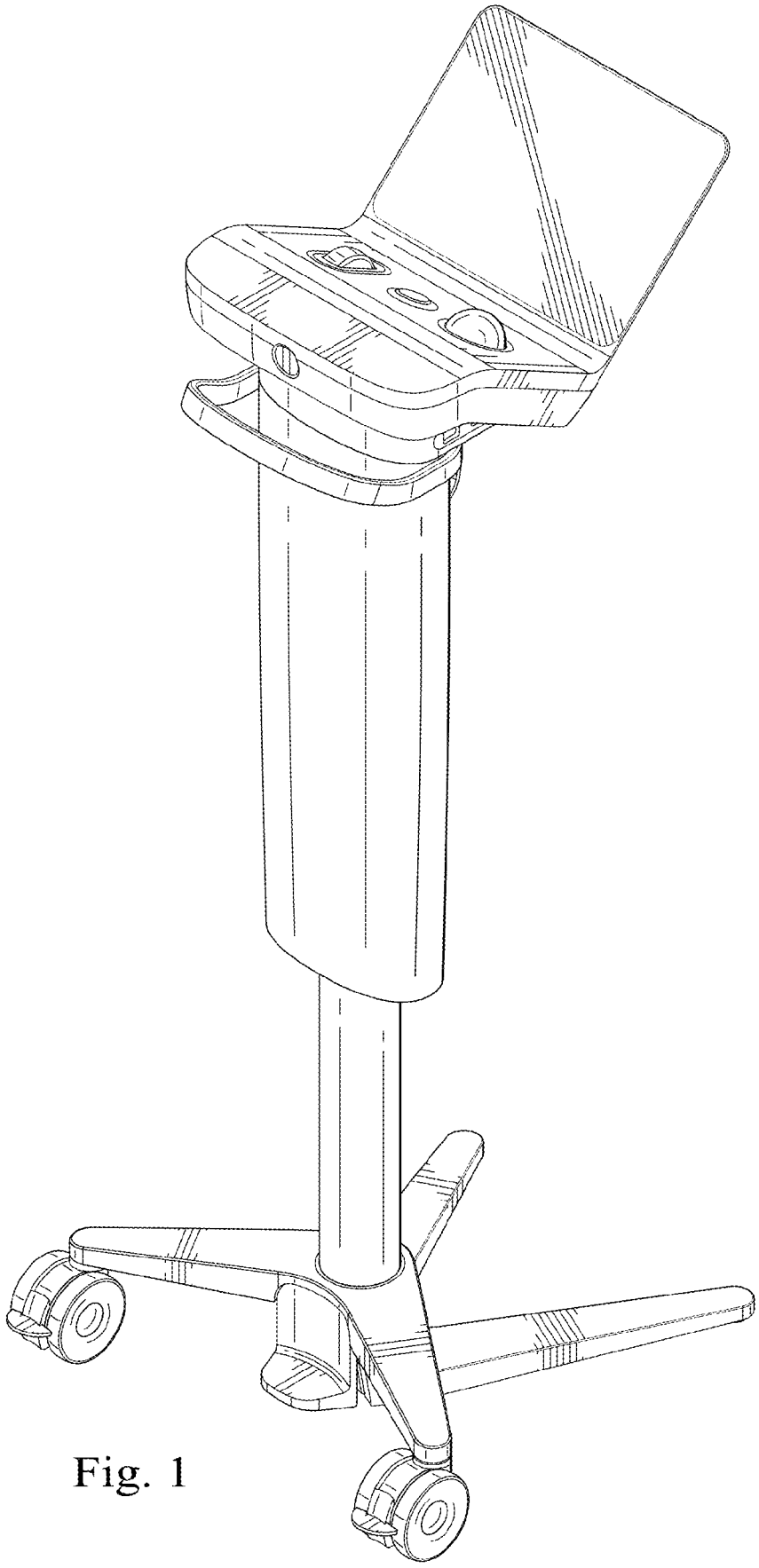


Fig. 1

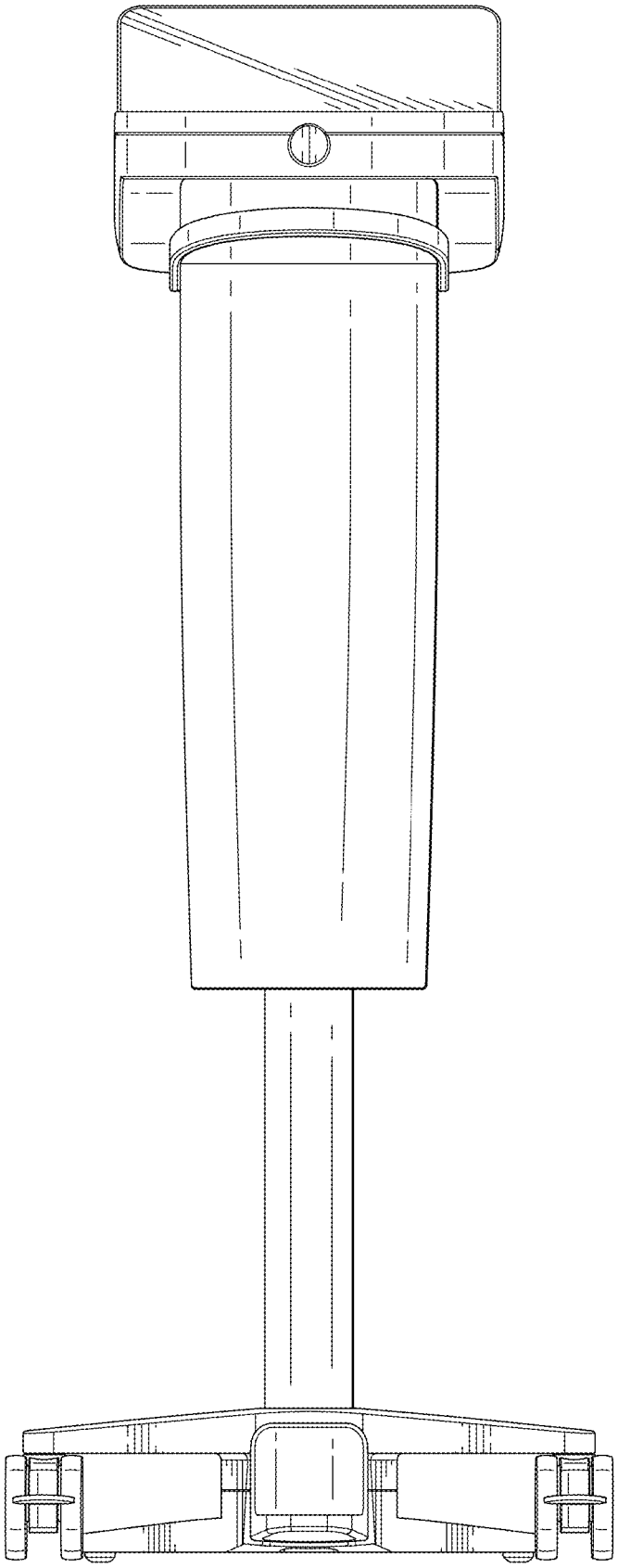


Fig. 2

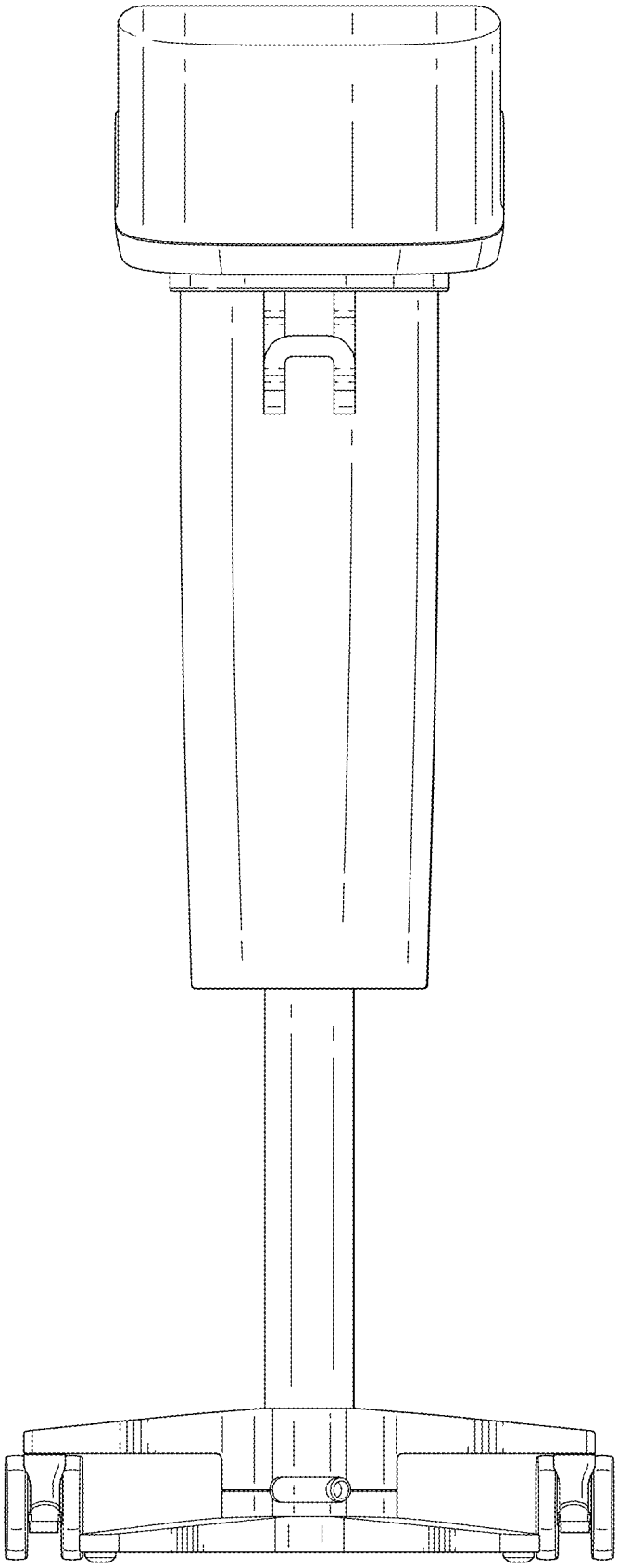


Fig. 3

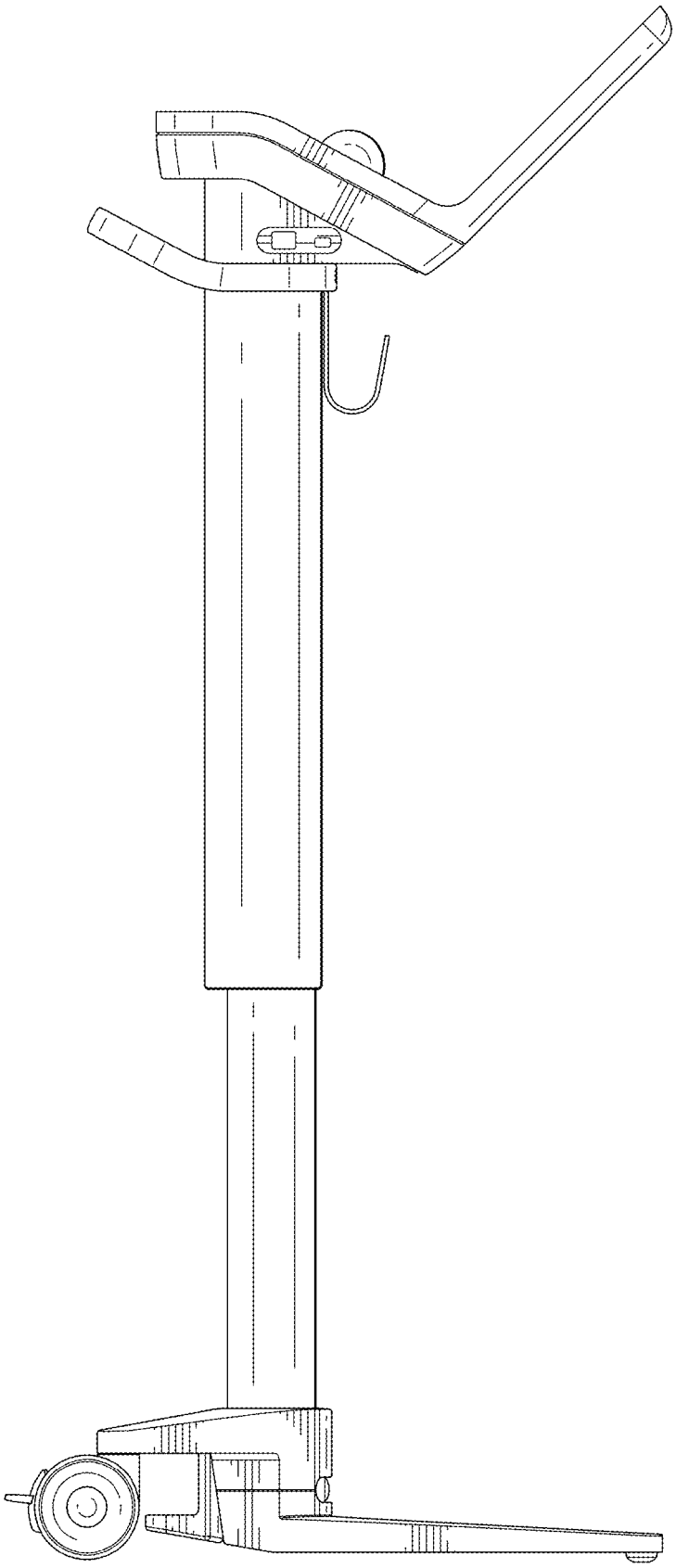


Fig. 4

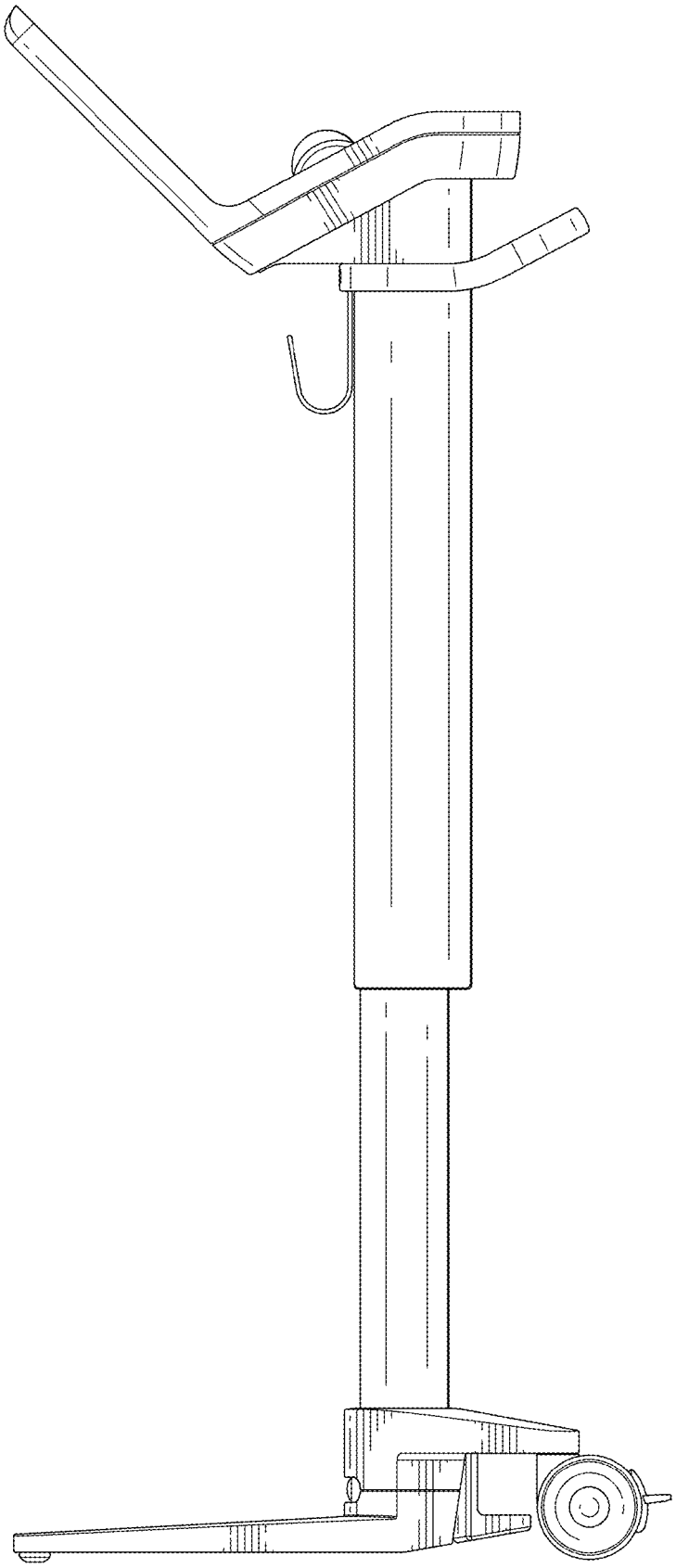


Fig. 5

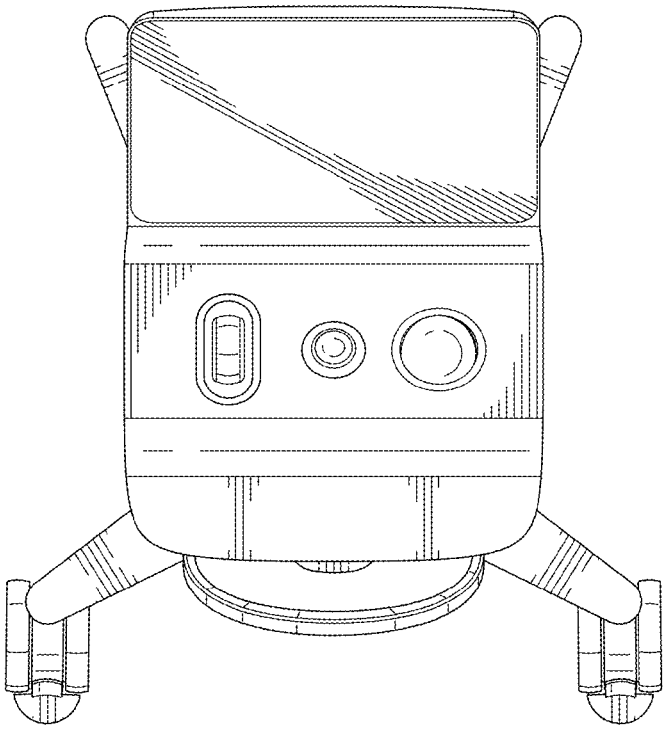


Fig. 6

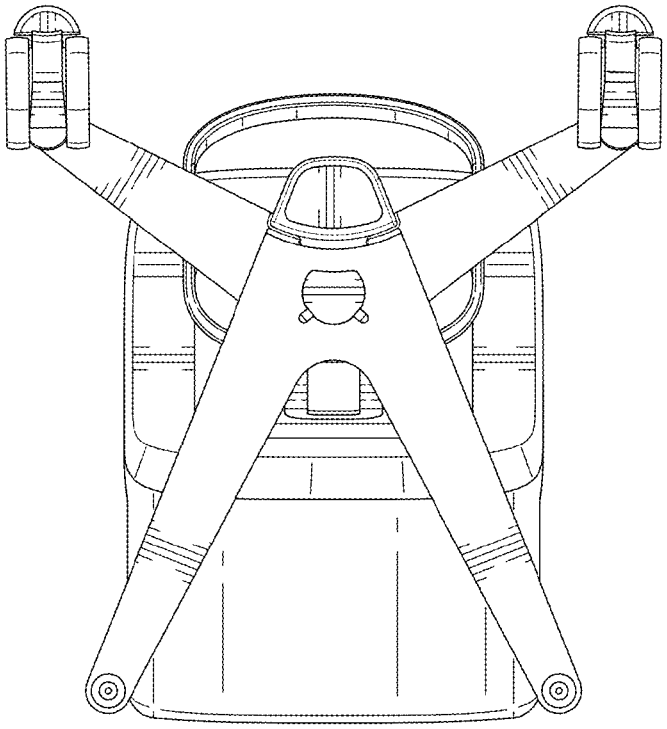


Fig. 7

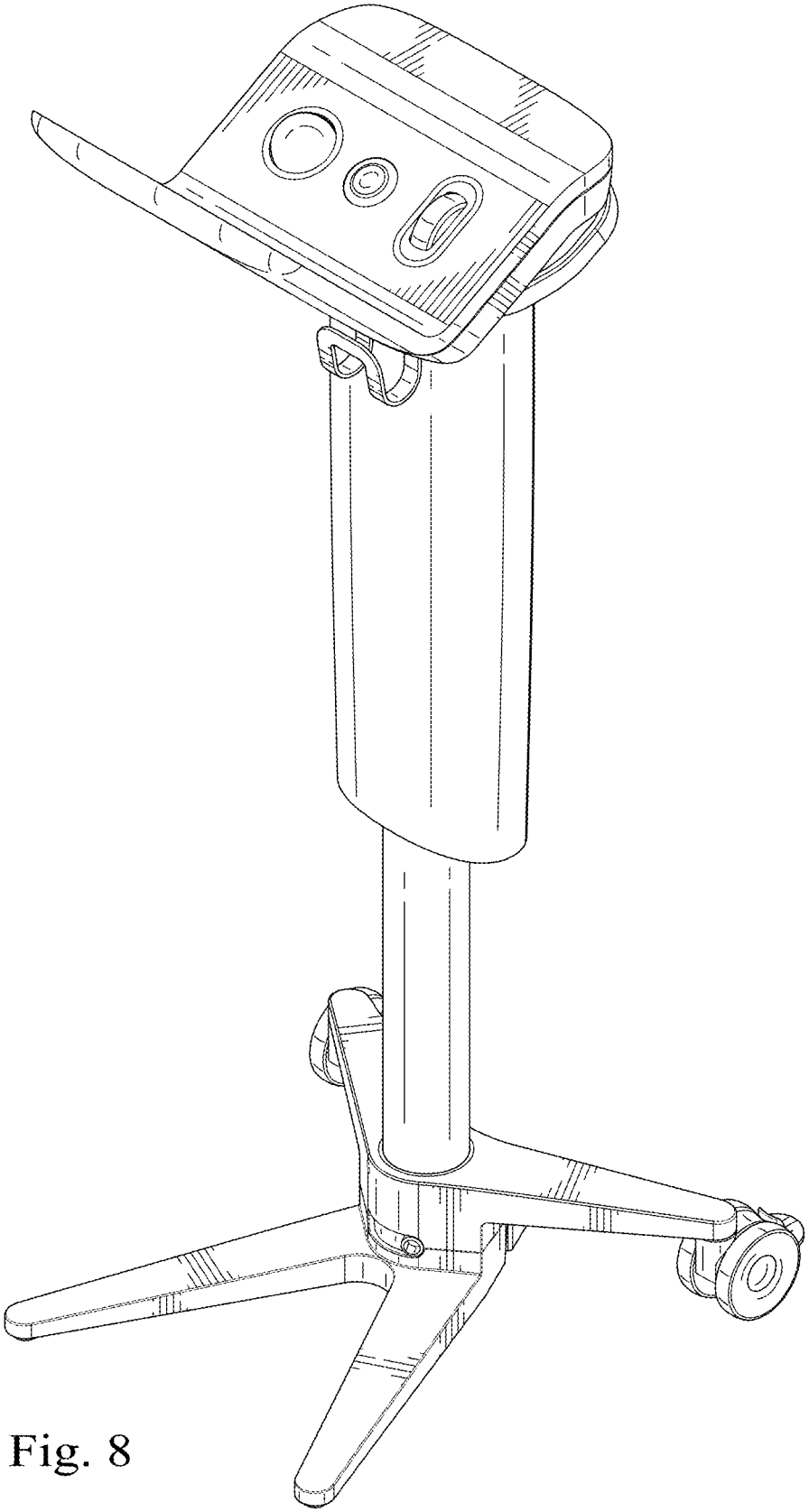


Fig. 8

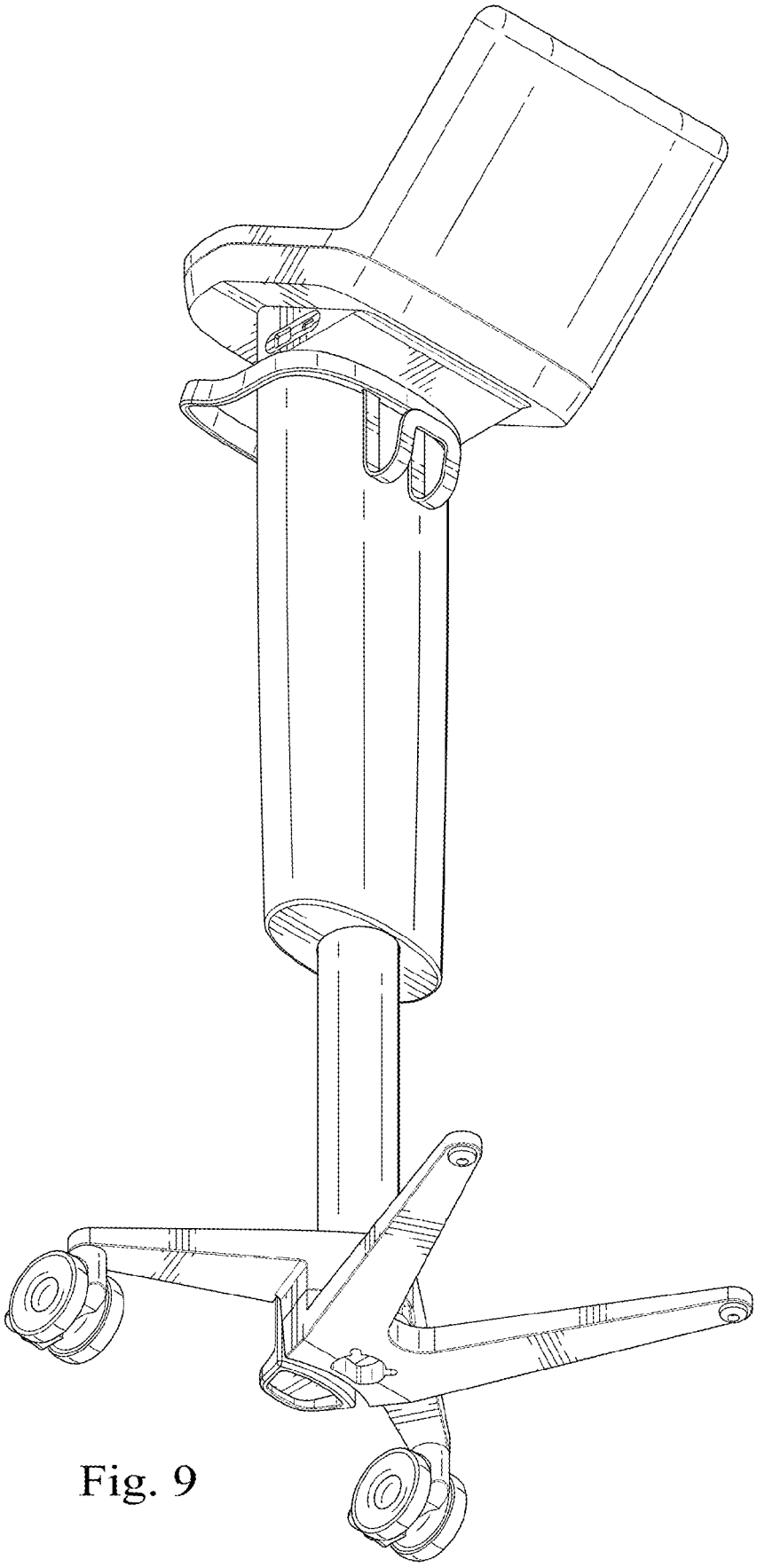


Fig. 9