US00D616972S

(12) United States Design Patent

Wang

(10) Patent No.: US D616,972 S
(45) Date of Patent: ** Jun. 1, 2010

(54) **BURNER WITH STABLIZERS**

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(73) Assignee: **Changzhou Gardensun Furnace Co., Ltd.**, Changzhou, Jiangsu (CN)

(**) Term: **14 Years**

(21) Appl. No.: **29/309,895**

(22) Filed: **Nov. 6, 2008**

(51) **LOC (9) Cl.** **23-03**

(52) **U.S. Cl.** **D23/332**; D23/317; D23/314

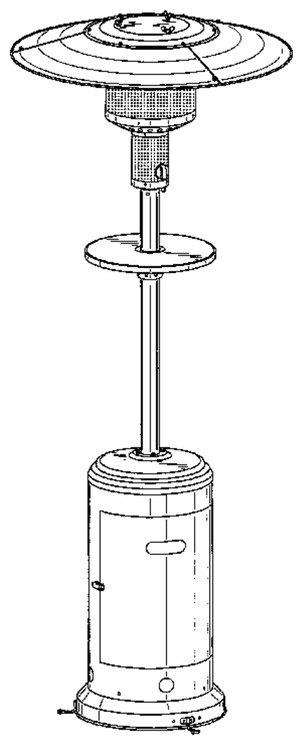
(58) **Field of Classification Search** ..... D23/323, D23/328, 332, 336, 339, 342, 386, 338; 126/25 R, 67, 92 A, 92 B, 9 A; 362/92, 217, 362/253; 431/331, 344

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

5,922,158	A	7/1999	Culp et al.	
5,964,233	A	10/1999	Clark et al.	
6,057,012	A	5/2000	Culp et al.	
6,076,546	A	6/2000	Waters	
D429,324	S	8/2000	Olson et al.	
6,102,031	A	8/2000	Waters	
6,164,273	A	12/2000	Waters	
6,192,878	B1	2/2001	Waters	
D445,889	S	7/2001	Resmo et al.	
D446,290	S *	8/2001	Jeng	D23/328
D447,796	S	9/2001	Resmo et al.	
D450,816	S	11/2001	Bilotti	
D451,988	S *	12/2001	Ashton et al.	D23/328
D455,204	S *	4/2002	Bossler	D23/342
D456,498	S *	4/2002	Jeng	D23/328
6,397,835	B1 *	6/2002	Liang	126/92 B
D461,548	S *	8/2002	Hsieh	D23/342
D462,426	S *	9/2002	Jeng	D23/328
D462,427	S *	9/2002	Jeng	D23/328
6,446,623	B1	9/2002	Resmo et al.	
6,470,877	B1	10/2002	Waters	
D466,993	S	12/2002	Chang	
D471,622	S	3/2003	Bossler	
D471,967	S	3/2003	Bossler	
D472,623	S	4/2003	Bossler	
6,550,470	B2 *	4/2003	Liang	126/92 B
D474,532	S	5/2003	Chan et al.	
6,598,990	B2	7/2003	Li	
6,619,281	B2	9/2003	Resmo et al.	
6,650,830	B2	11/2003	Kerec	
6,651,647	B2	11/2003	Waters	
6,668,818	B2	12/2003	Bossler	
D486,211	S	2/2004	Chan et al.	
D486,567	S	2/2004	Sakai	
6,736,132	B2	5/2004	Schlosser et al.	
6,742,814	B2	6/2004	Resmo et al.	
6,745,759	B2	6/2004	Bossler	
6,792,937	B2	9/2004	Resmo et al.	
6,907,875	B1	6/2005	Eastman, II et al.	
D509,291	S	9/2005	Cunningham et al.	
7,003,217	B2	2/2006	Bachinski et al.	
7,086,396	B2	8/2006	Waters	
D532,500	S	11/2006	Yeung	
D532,501	S	11/2006	Giovino	
7,175,424	B2	2/2007	Frink et al.	
7,278,418	B2	10/2007	Duphily et al.	
7,296,522	B1	11/2007	Mahmalji	
D590,201	S *	4/2009	Zagar	D7/335
2001/0037804	A1	11/2001	Waters et al.	
2002/0088454	A1	7/2002	Resmo et al.	
2002/0089178	A1	7/2002	Resmo et al.	
2003/0029438	A1	2/2003	Bossler	
2003/0029439	A1	2/2003	Bossler	
2003/0056782	A1 *	3/2003	Liang	126/92 B
2003/0056783	A1	3/2003	Bossler	
2003/0067765	A1	4/2003	Li	
2003/0099468	A1	5/2003	Kerec	
2003/0136396	A1	7/2003	Resmo et al.	
2004/0011346	A1	1/2004	Sakai	
2004/0226551	A1	11/2004	Duphily et al.	
2004/0261780	A1	12/2004	Frink et al.	
2005/0105898	A1	5/2005	Bachinski et al.	
2005/0175950	A1	8/2005	Waters	
2005/0247074	A1	11/2005	Ellicott	
2006/0198084	A1	9/2006	Hall, Jr. et al.	
2007/0101983	A1	5/2007	Yao	
2007/0267399	A1	11/2007	Flores	
2007/0269758	A1	11/2007	Hofbauer et al.	
2008/0006263	A1	1/2008	Seichei et al.	



2008/0152329 A1 6/2008 Saunders et al.

FOREIGN PATENT DOCUMENTS

WO	WO 00/08965	2/2000
WO	WO 00/17580	3/2000
WO	WO 01/45854	6/2001
WO	WO 02/24019	3/2002
WO	WO 02/073092	9/2002
WO	WO 2004/023954	3/2004
WO	WO 2004/082376	9/2004
WO	WO 2004/099674	11/2004
WO	PCT/GB05/000177	4/2005
WO	WO 2005/071321	8/2005
WO	WO 2005/072209	8/2005
WO	WO 2006/017003	2/2006
WO	WO 2006/024916	3/2006
WO	WO 2007/001364	1/2007

* cited by examiner

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(57) **CLAIM**

The ornamental design for a burner with stabilizers, as shown and described.

DESCRIPTION

Embodiment **1** - FIGS. **1**–**7**, **9** and **28**–**30**.

Embodiment **2** - FIGS. **1**–**6**, **8**–**9** and **28**–**30**.

Embodiment **3** - FIGS. **8**–**15** and **28**–**30**.

Embodiment **4** - FIGS. **8**–**9**, **16**–**21** and **28**–**30**.

Embodiment **5** - FIGS. **8**–**9**, **22**–**27** and **28**–**30**.

FIG. **1** is a perspective view of a first embodiment of a burner with a push-up switch and a door which opens in a counter-clock-wise direction and the door is in the close position and an adjustable table is set in a high position;

FIG. **2** is a perspective view of a burner with a push-up switch and a door which opens in a counter-clock-wise direction and the door is in the open position and an adjustable table is set in a high position;

FIG. **3** is a front plan view of a burner with a push-up switch and a door which open in a counter-clock-wise direction and an adjustable table is set in a high position;

FIG. **4** is one side plan view of a burner with a push-up switch and a door which opens in a counter-clock-wise direction and an adjustable table is set in a high position;

FIG. **5** is another side plan view of a burner with a push-up switch and a door which opens in a counter-clock-wise direction and an adjustable table is set in a high position;

FIG. **6** is a rear plan view of a burner with a push-up switch and a door which opens in a counter-clock-wise direction and an adjustable table is set in a high position;

FIG. **7** is a top plan view of a multi-piece top cover of a burner;

FIG. **8** is an alternative second embodiment top plan view of a unibody top cover of a burner;

FIG. **9** is a bottom plan view of a burner showing the underside of the burner base and partial impeded view of the underside of the top cover;

FIG. **10** is a perspective view of a third embodiment of a burner with a push-up switch and a door which opens in a clock-wise direction and the door is in the close position and an adjustable table is set in a high position;

FIG. **11** is a perspective view of a burner with a push-up switch and a door which opens in a clock-wise direction and the door is in the open position and an adjustable table is set in a high position;

FIG. **12** is a front plan view of a burner with a push-up switch and a door which open in a clock-wise direction and an adjustable table is set in a high position;

FIG. **13** is one side plan view of a burner with a push-up switch and a door which opens in a clock-wise direction and an adjustable table is set in a high position;

FIG. **14** is another side plan view of a push-up switch and a burner with a door which opens in a clock-wise direction and an adjustable table is set in a high position;

FIG. **15** is a rear plan view of a burner with a push-up switch and a door which opens in a clock-wise direction and an adjustable table is set in a high position;

FIG. **16** is a perspective view of a fourth embodiment of a burner with a push-in switch in the same plane as the temperature control switch and a door in a closed position which opens in a counter-clock-wise direction and an adjustable table is set in a low position;

FIG. **17** is a perspective view of a burner with a push-in switch in the same plane as the temperature control switch and a door in an open position which opens in a counter-clock-wise direction and an adjustable table is set in a low position;

FIG. **18** is a front view of a burner with a push-in switch in the same plane as the temperature control switch and a door opens in a counter-clock-wise direction and an adjustable table is set in a low position;

FIG. **19** is one side view of a burner with a push-in switch in the same plane as the temperature control switch and a door opens in a counter-clock-wise direction and an adjustable table is set in a low position;

FIG. **20** is another side view of a burner with a push-in switch in the same plane as the temperature control switch and a door opens in a counter-clock-wise direction and an adjustable table is set in a low position;

FIG. **21** is a rear view of a burner with a push-in switch in the same plane as the temperature control switch and a door opens in a counter-clock-wise direction and an adjustable table is set in a low position;

FIG. **22** is a perspective view of a fifth embodiment of a burner with a push-in switch in the same plane as the temperature control switch and a door in a closed position which opens in a clock-wise direction and an adjustable table is set in a low position;

FIG. **23** is a perspective view of a burner with a push-in switch in the same plane as the temperature control switch and a door in an open position which opens in a clock-wise direction and an adjustable table is set in a low position;

FIG. **24** is a front view of a burner with a push-in switch in the same plane as the temperature control switch and a door opens in a clock-wise direction and an adjustable table is set in a low position;

FIG. **25** is one side view of a burner with a push-in switch in the same plane as the temperature control switch and a door opens in a clock-wise direction and an adjustable table is set in a low position;

FIG. **26** is another side view of a burner with a push-in switch in the same plane as the temperature control switch and a door opens in a clock-wise direction and an adjustable table is set in a low position;

FIG. **27** is a rear view of a burner with a push-in switch in the same plane as the temperature control switch and a door opens in a clock-wise direction and an adjustable table is set in a low position;

FIG. **28** is an enlarged perspective view of the latch in all embodiments;

FIG. **29** is an enlarged side view of the latch in all embodiments; and,

FIG. **30** is an enlarged front view of the latch in all embodiments.

1 Claim, 27 Drawing Sheets

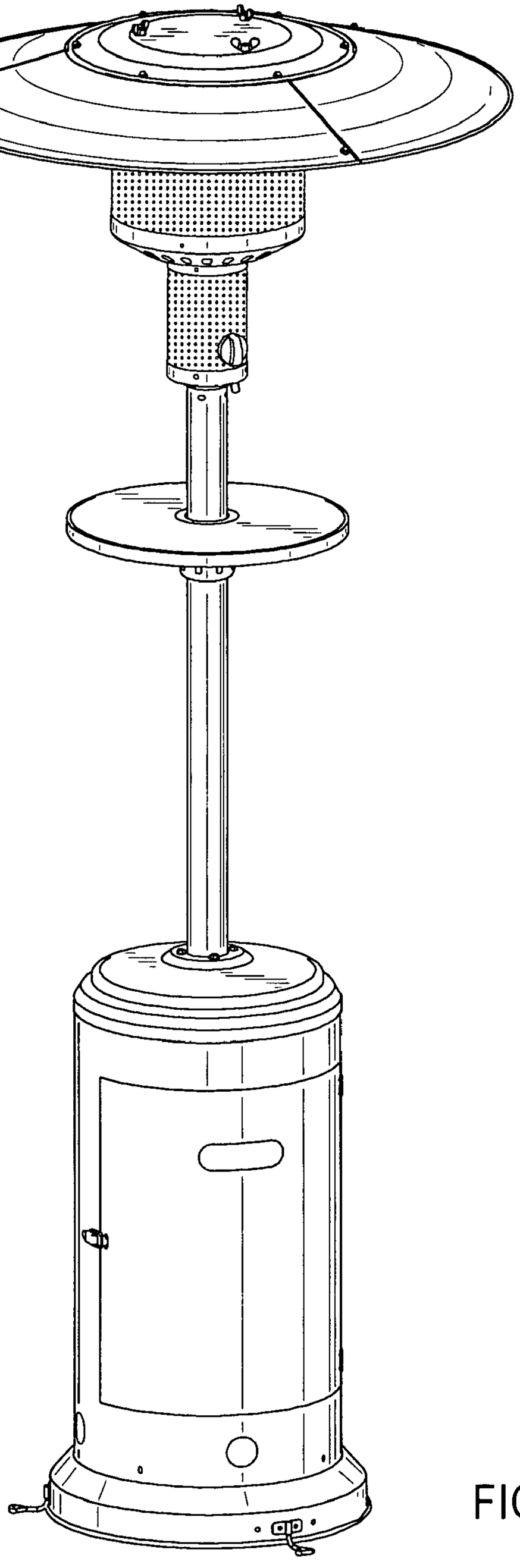


FIG.1

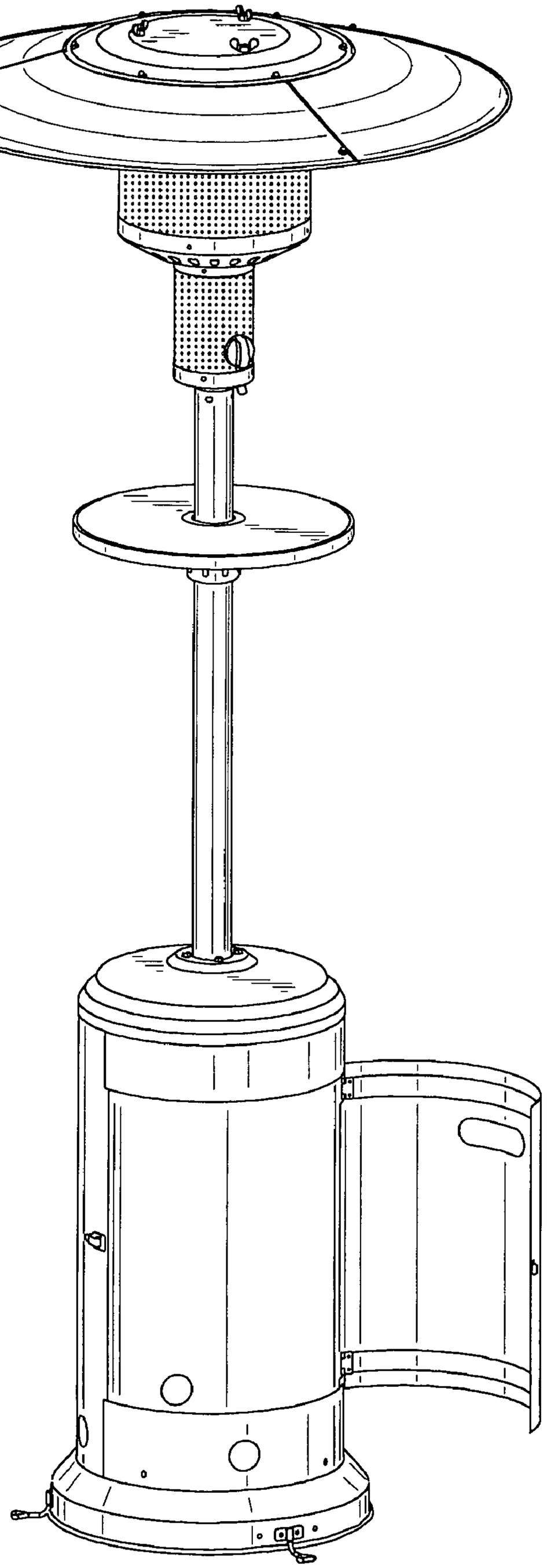


FIG.2

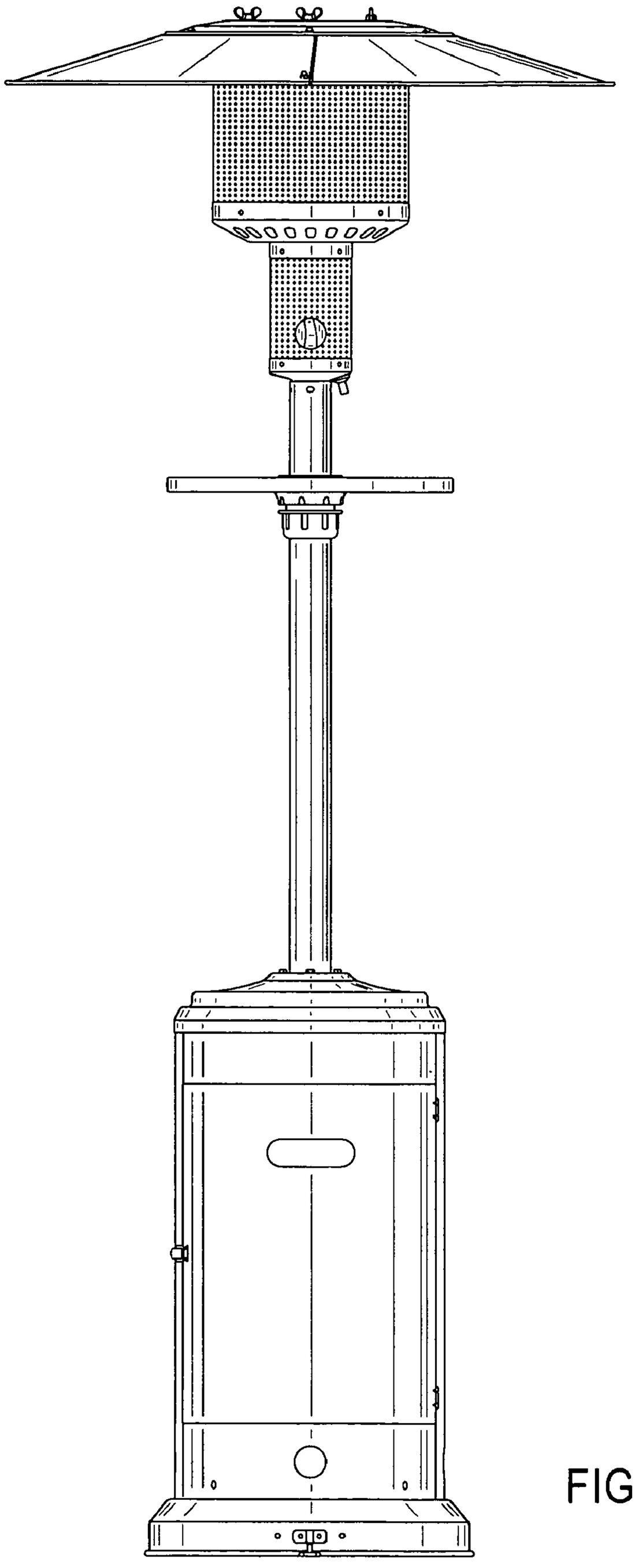


FIG.3

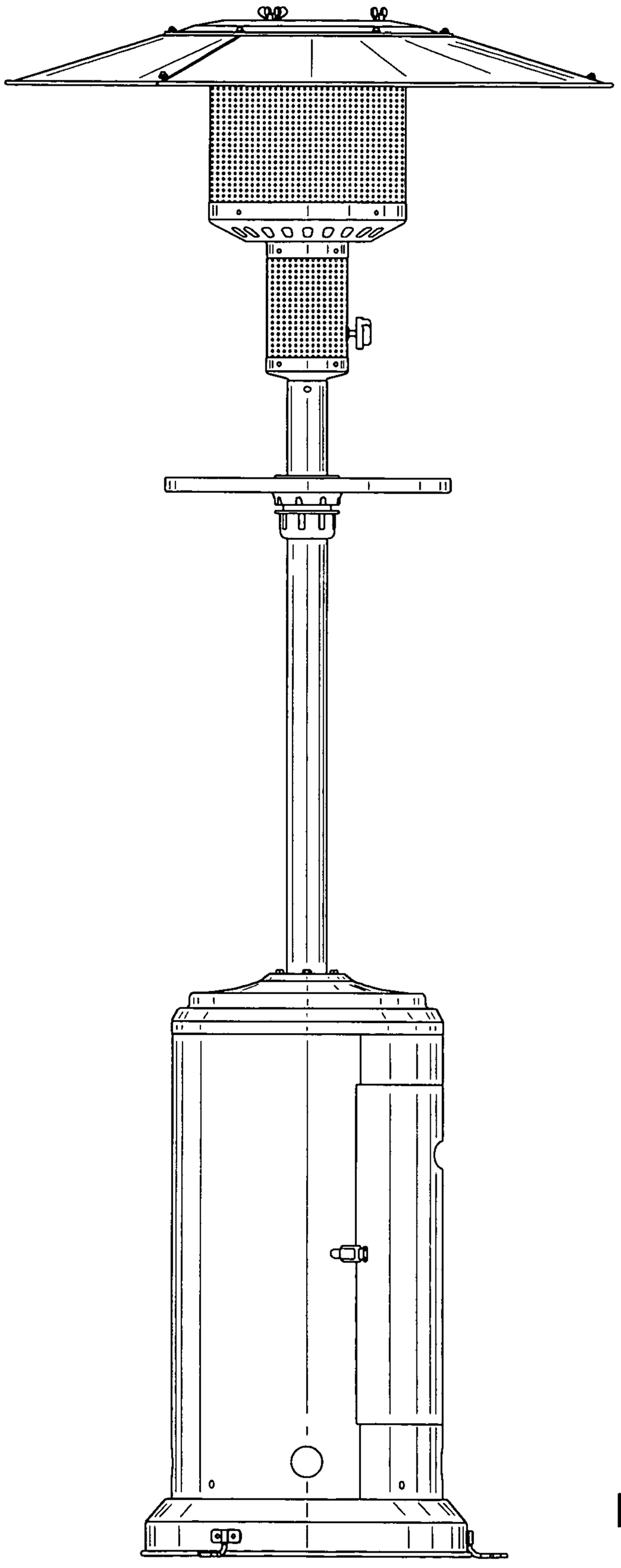
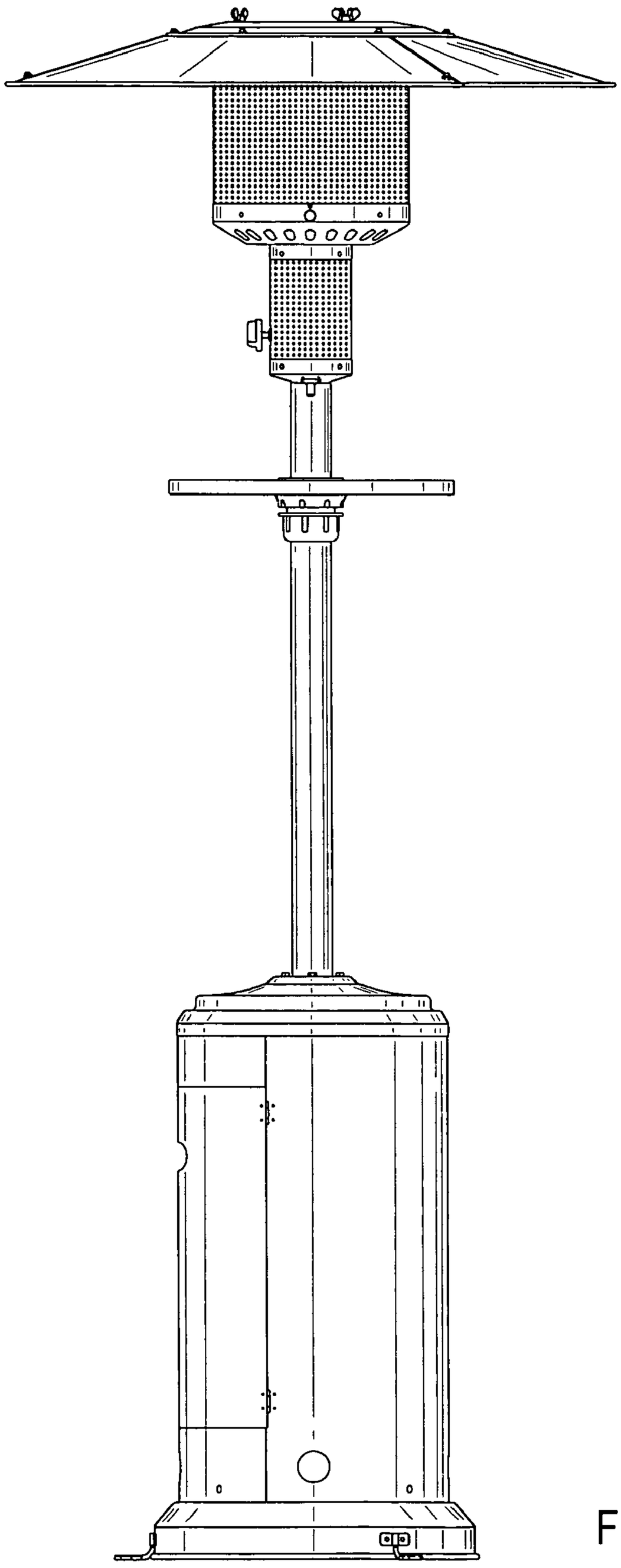


FIG.4



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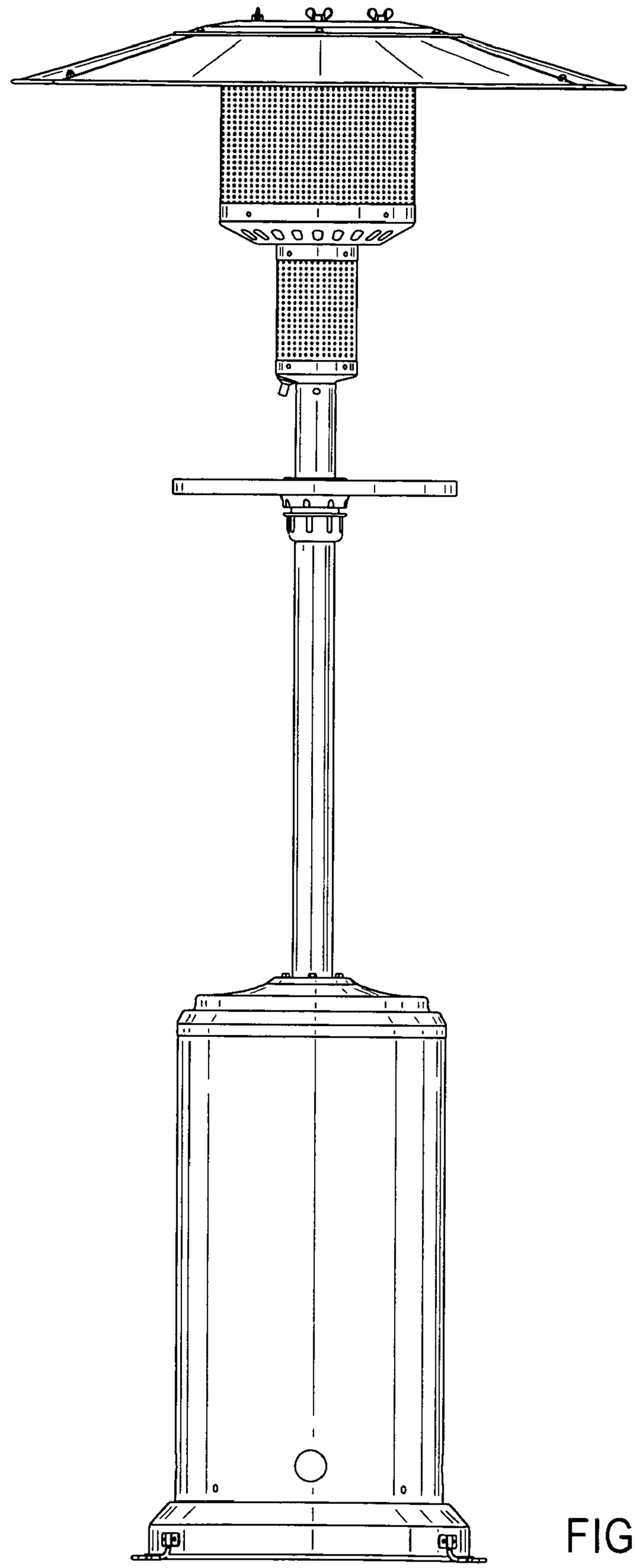

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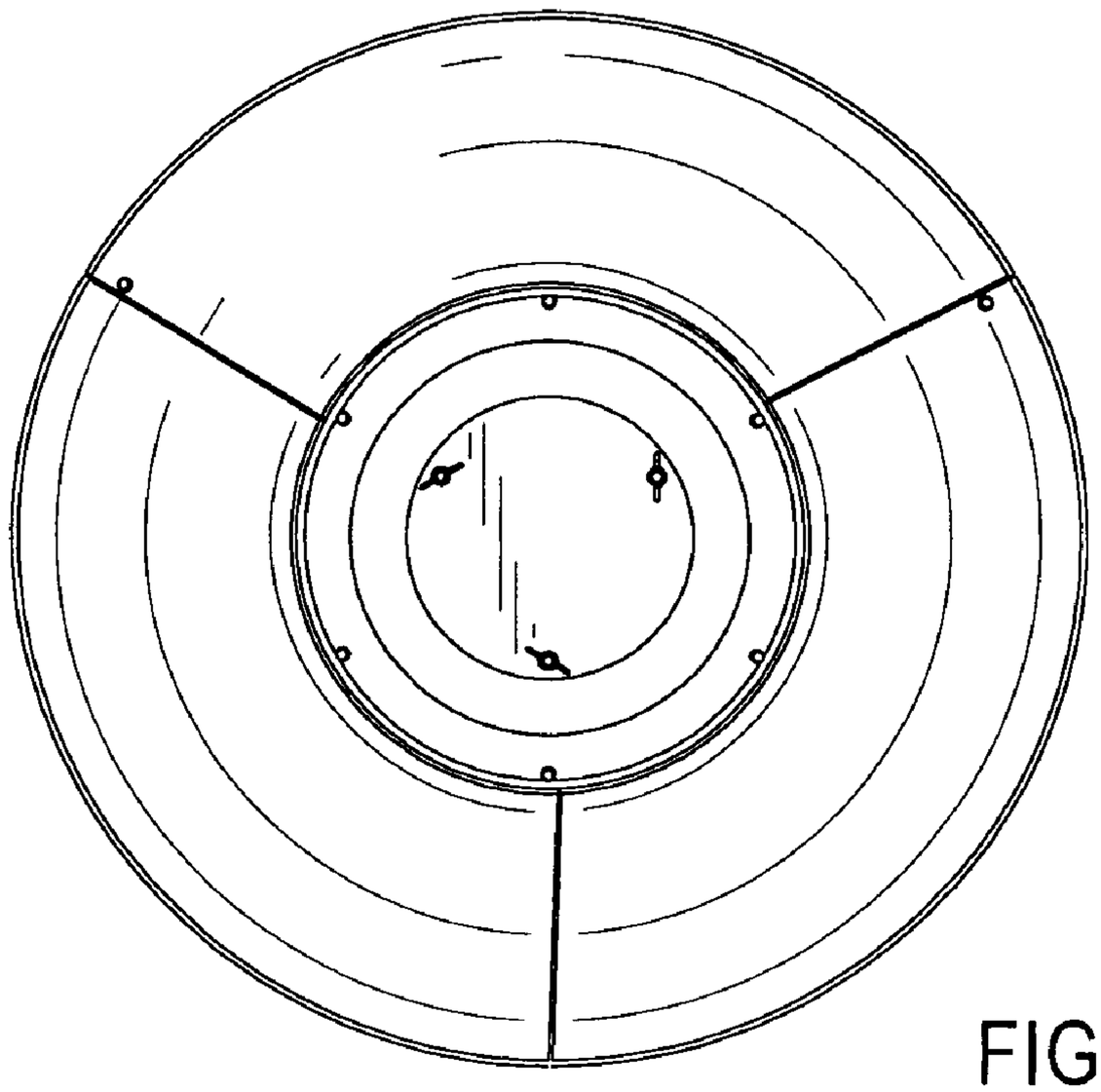

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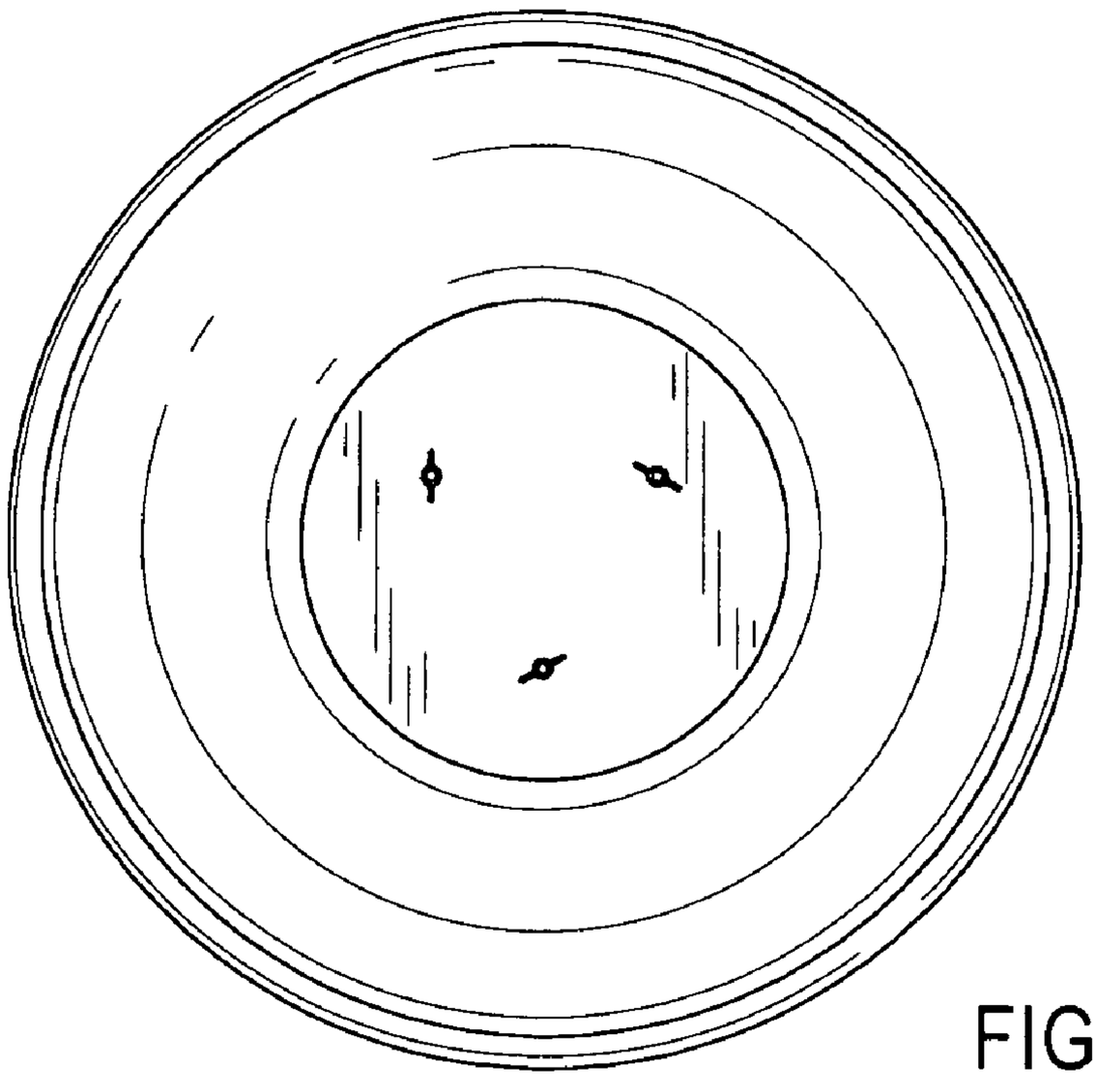

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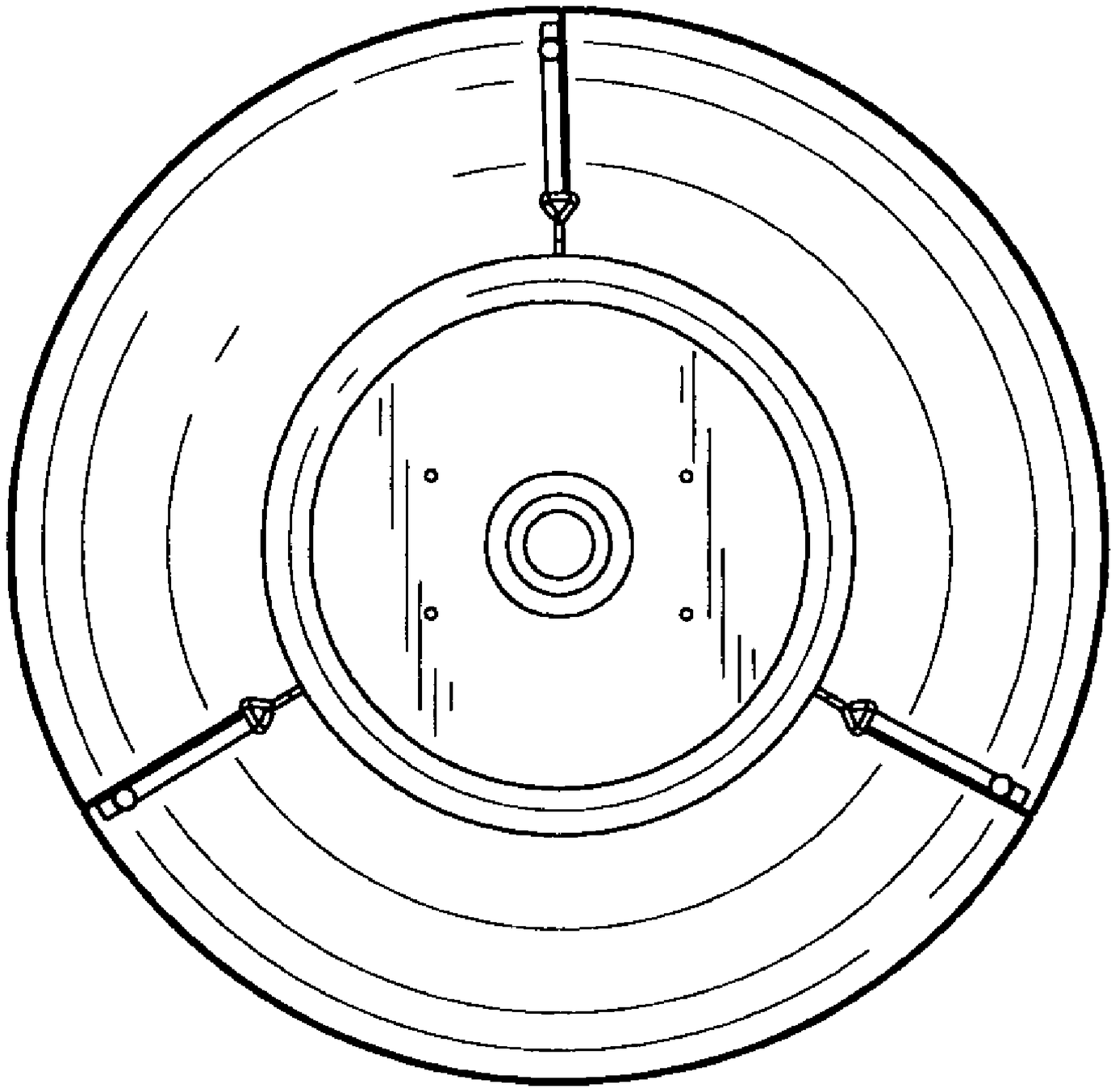

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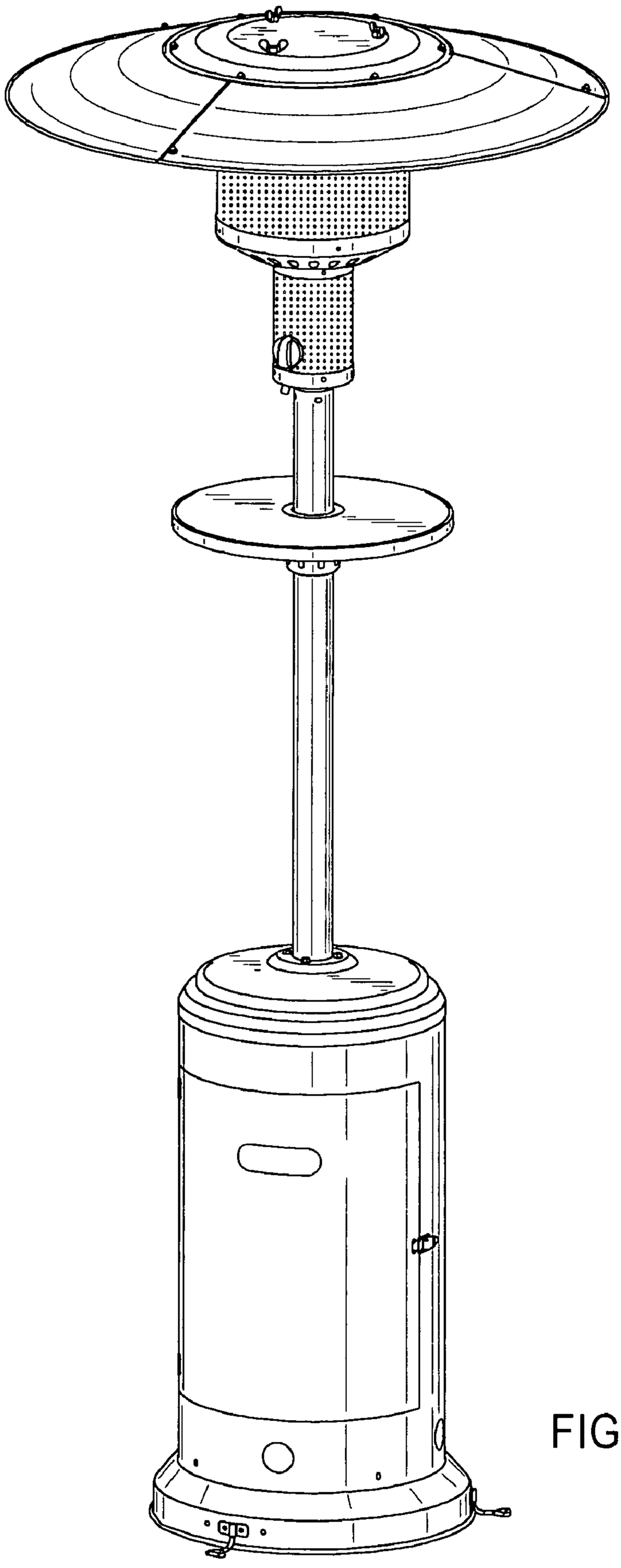

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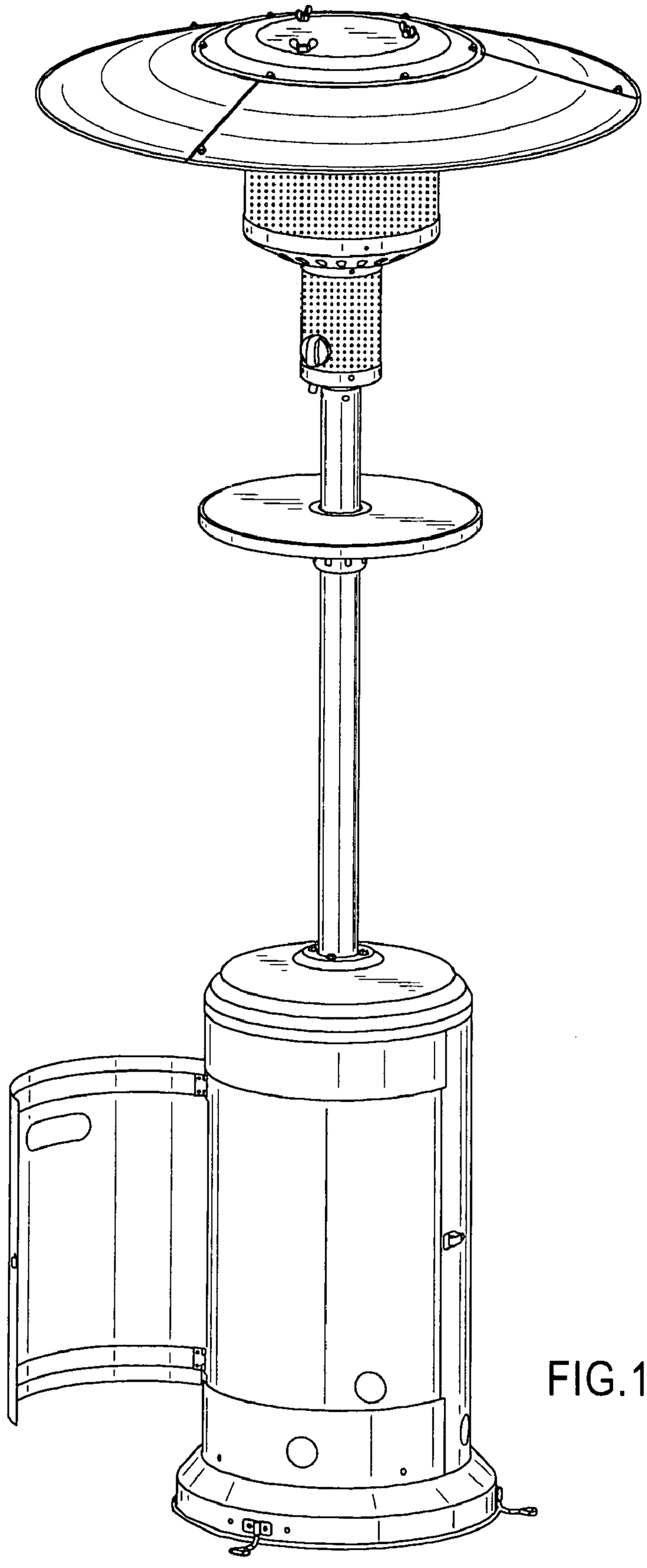


FIG.11

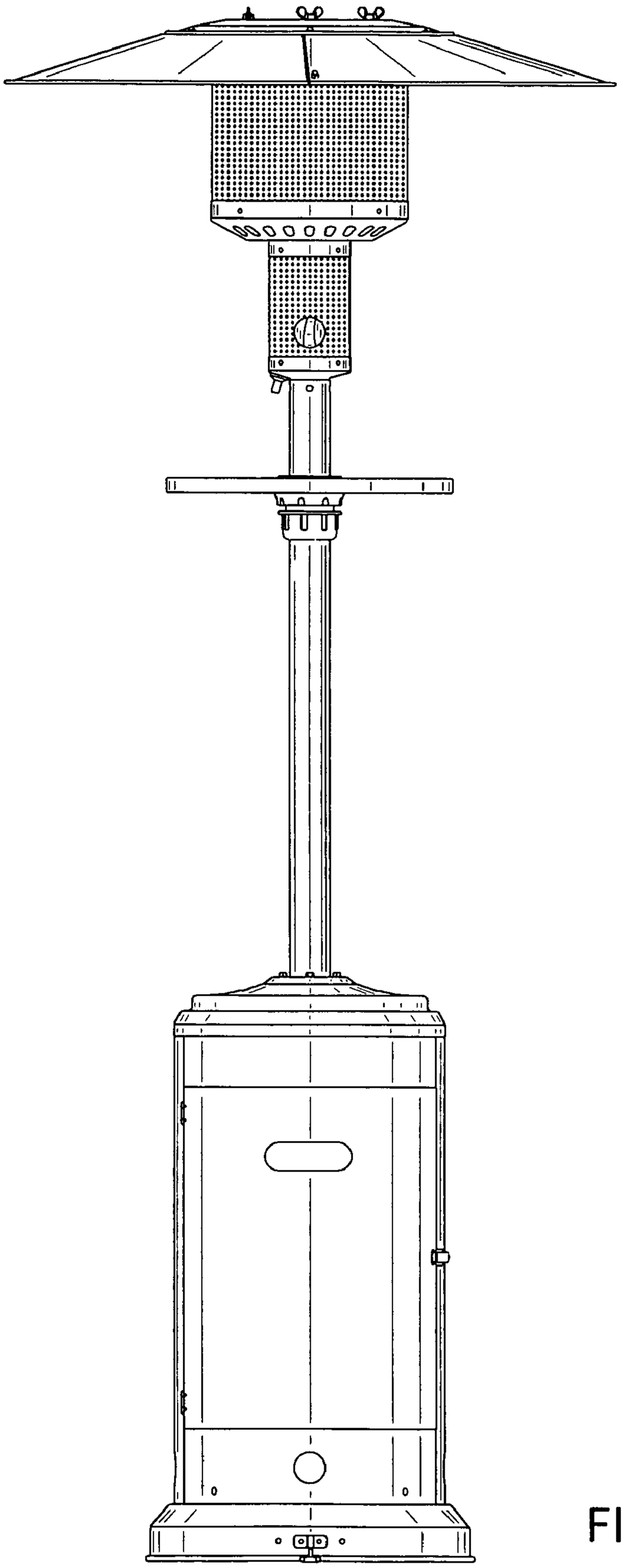
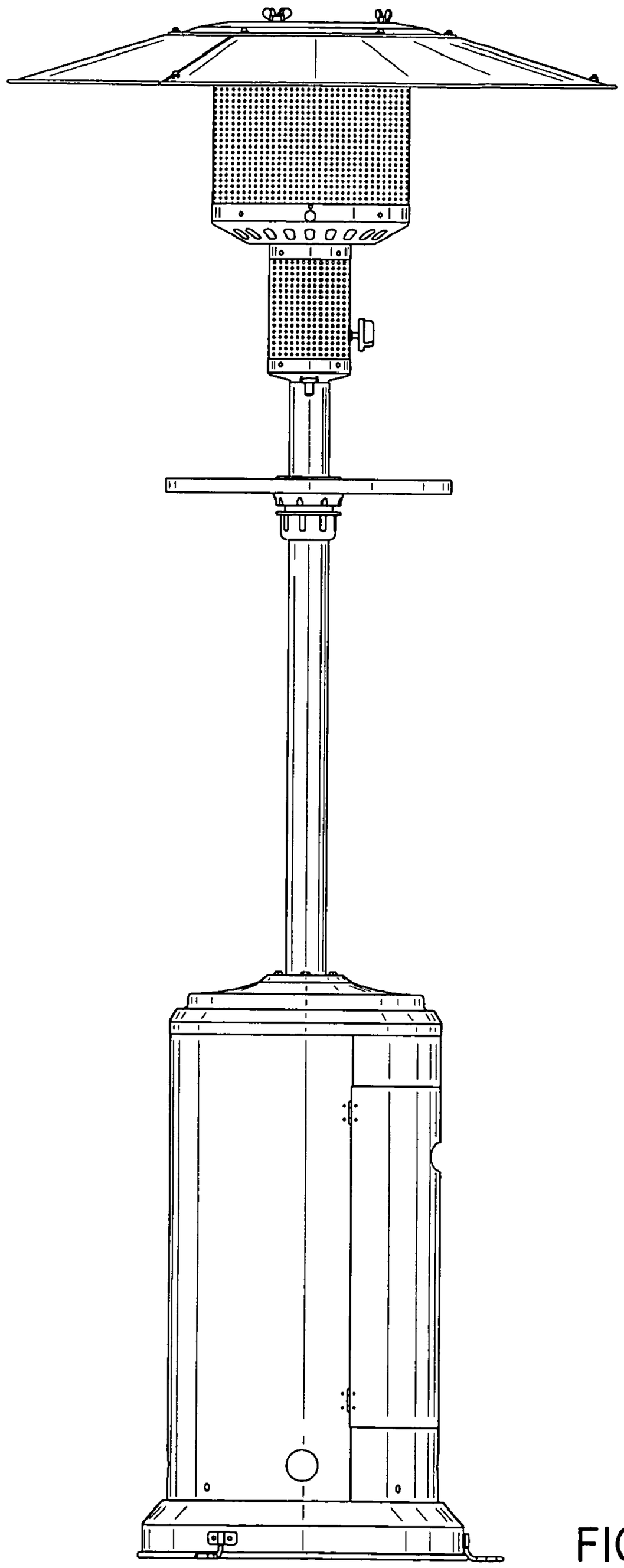


FIG.12



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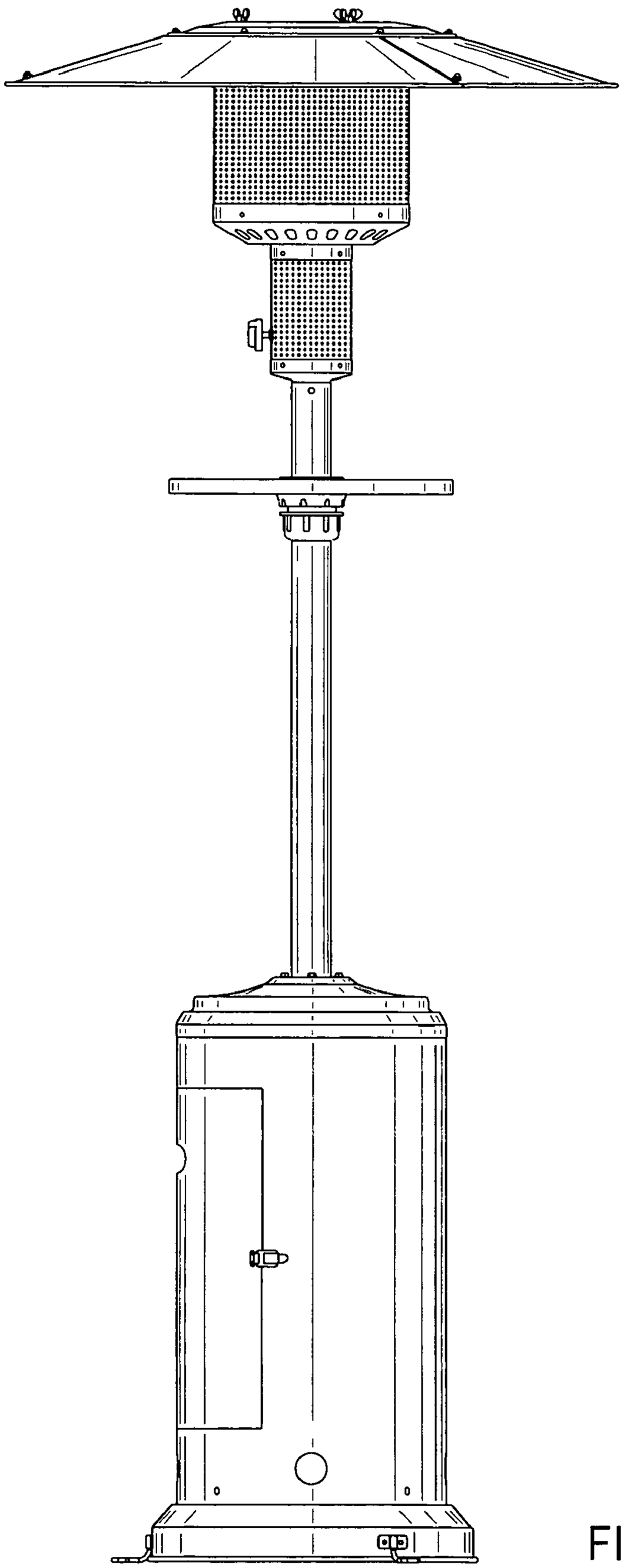

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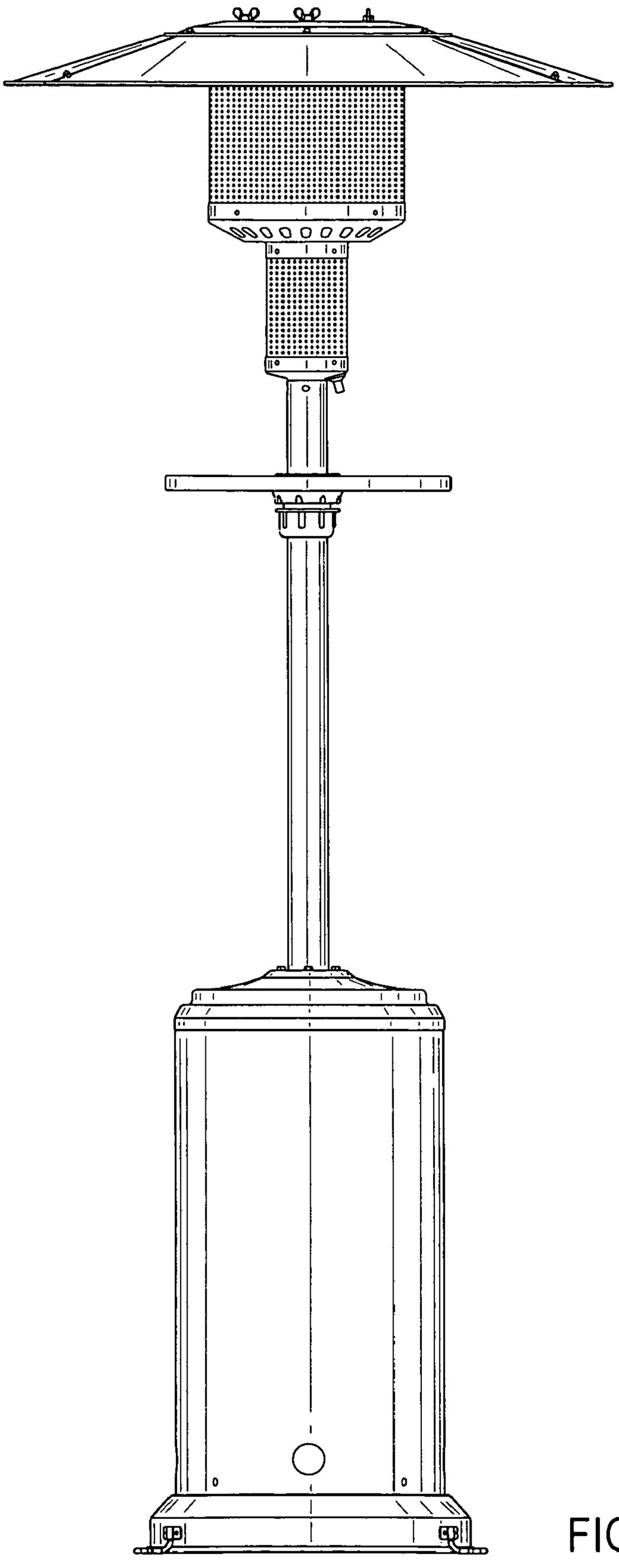

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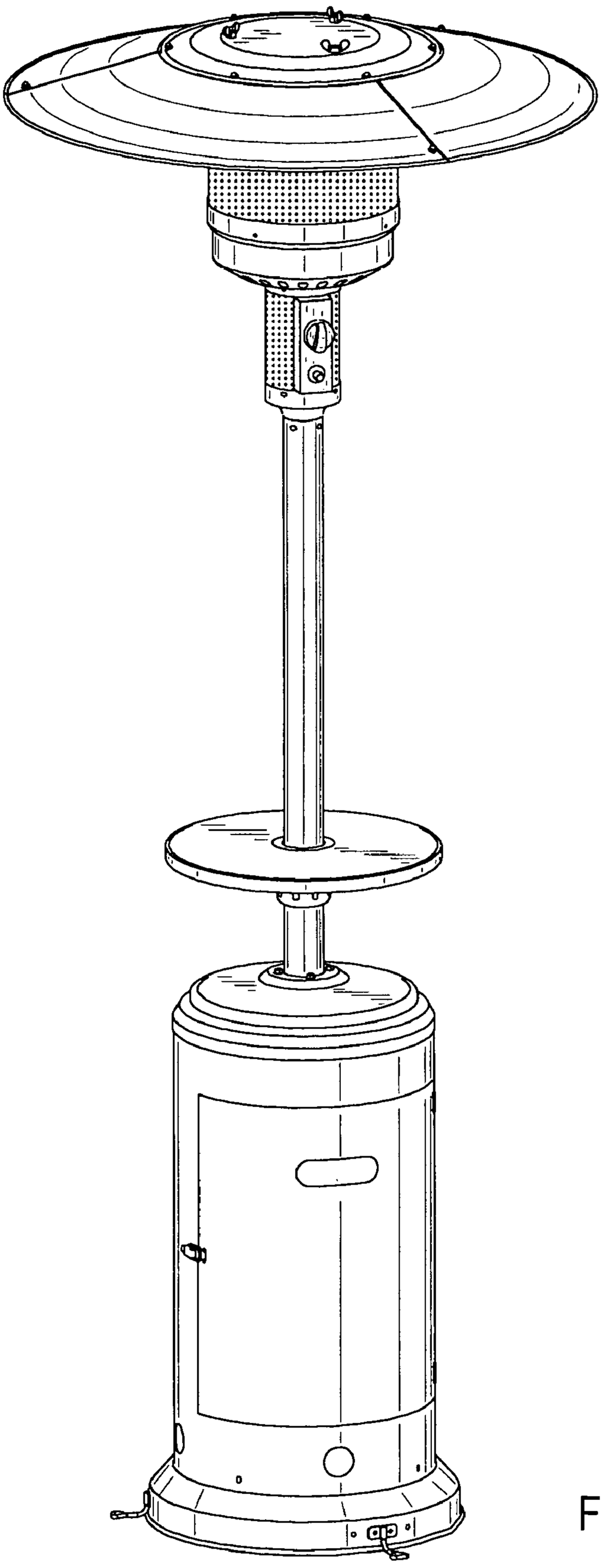

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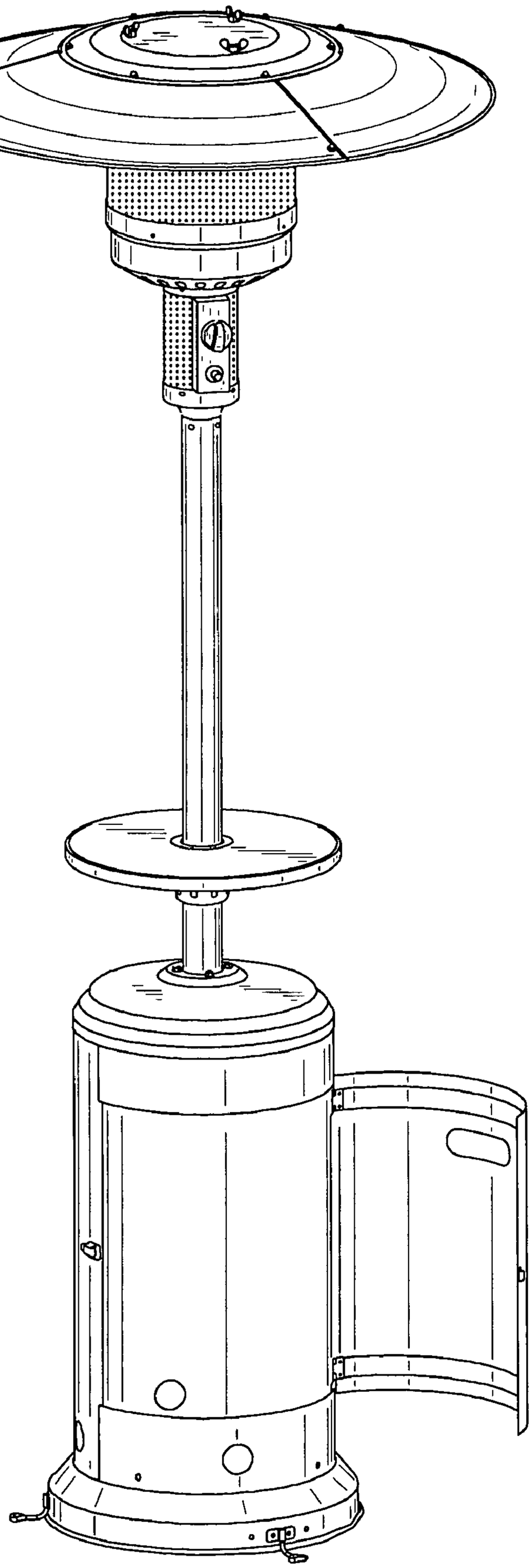

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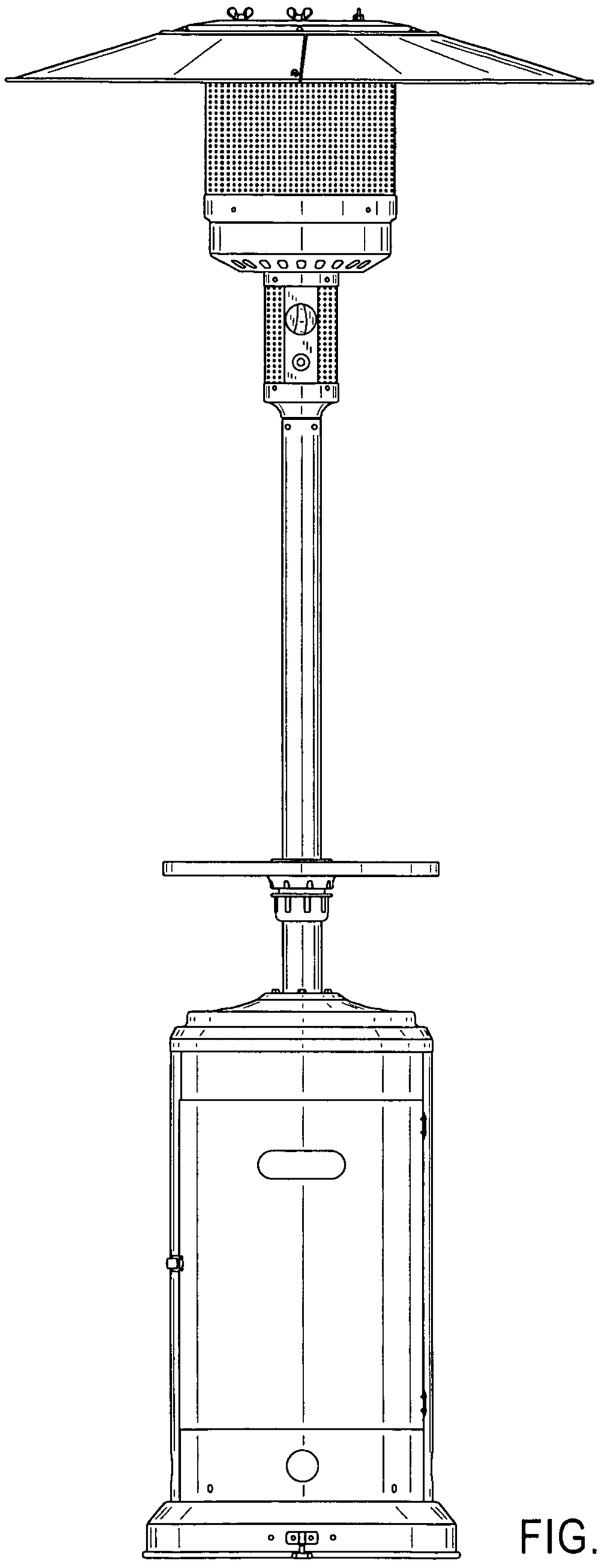

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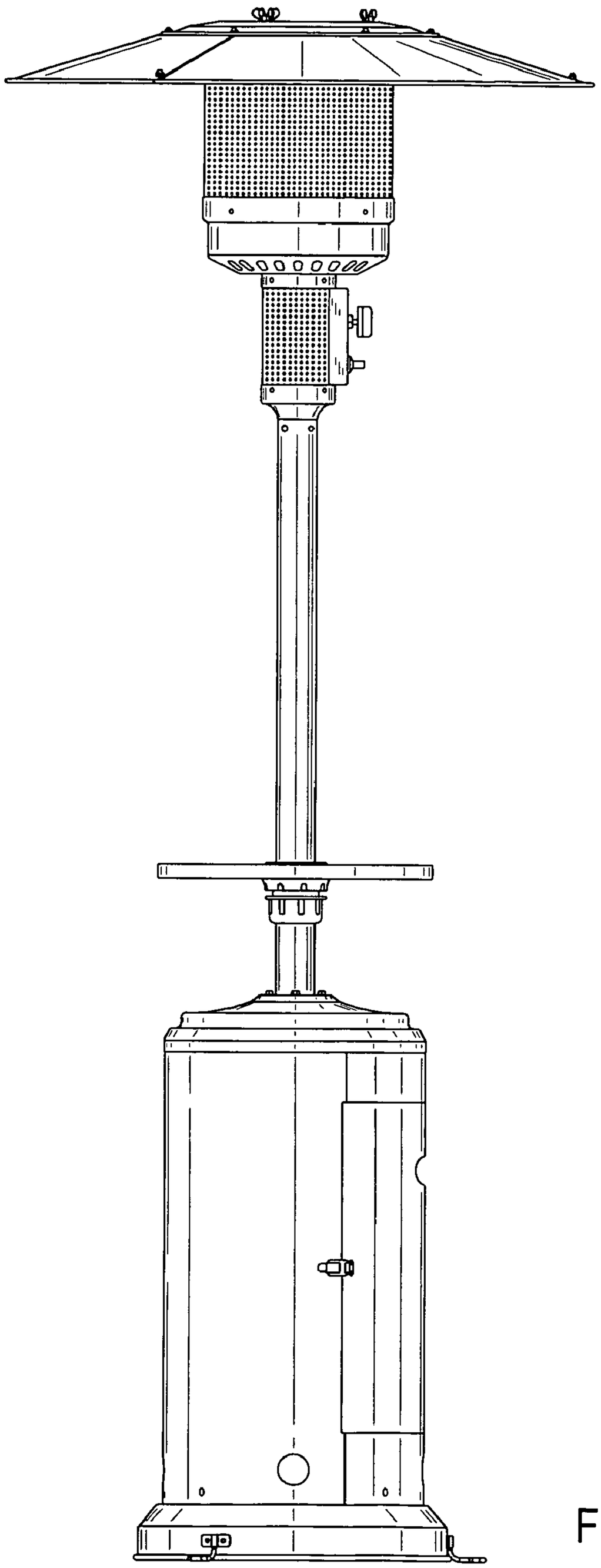

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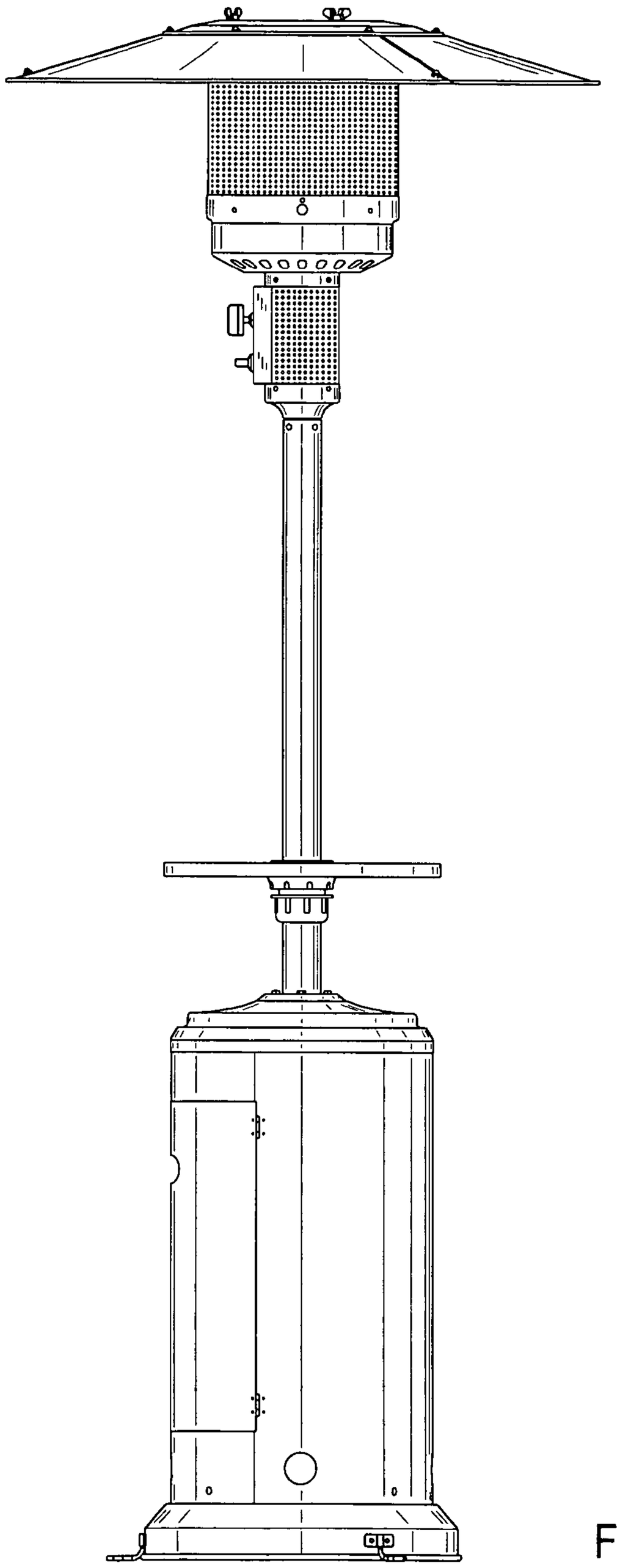

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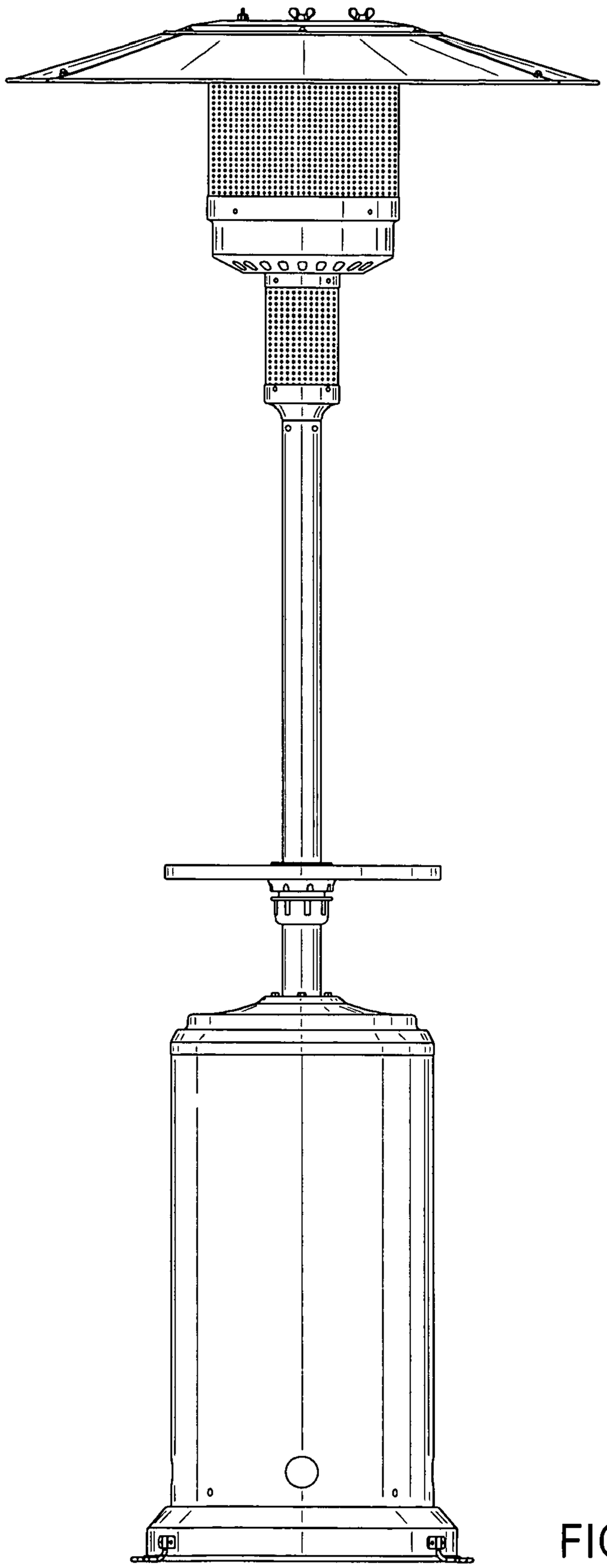

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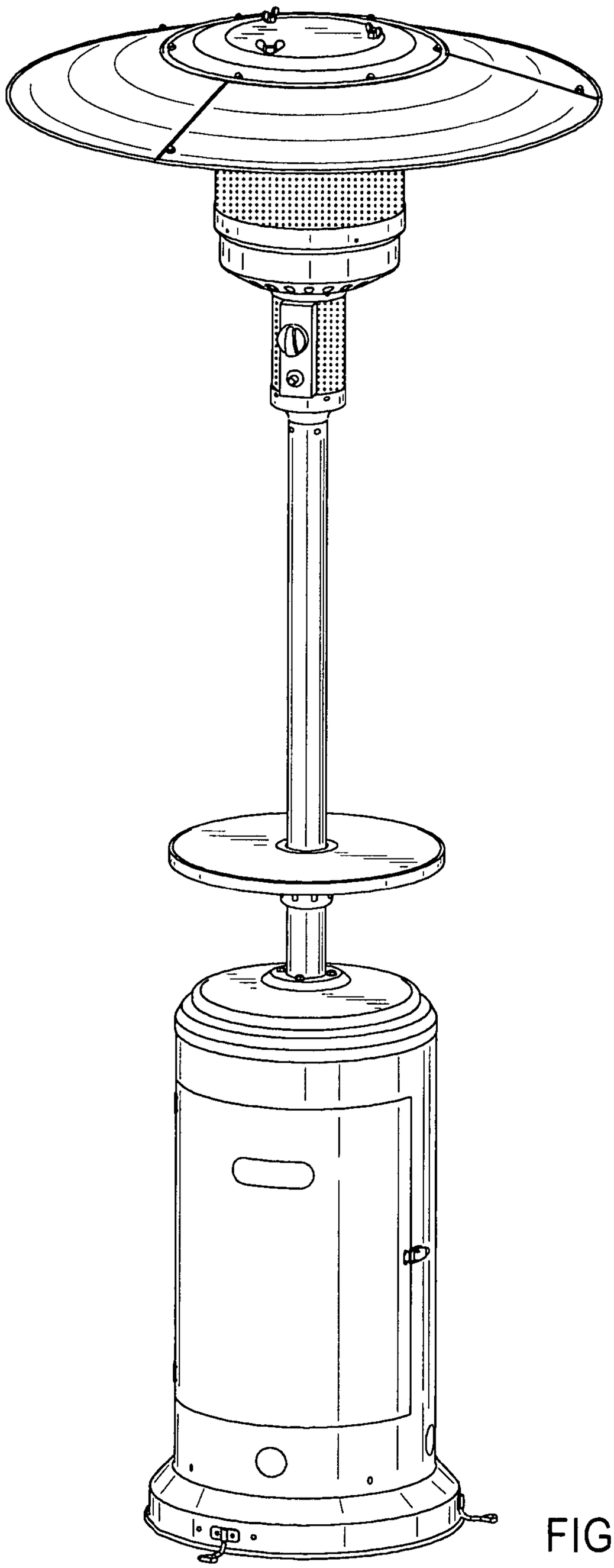

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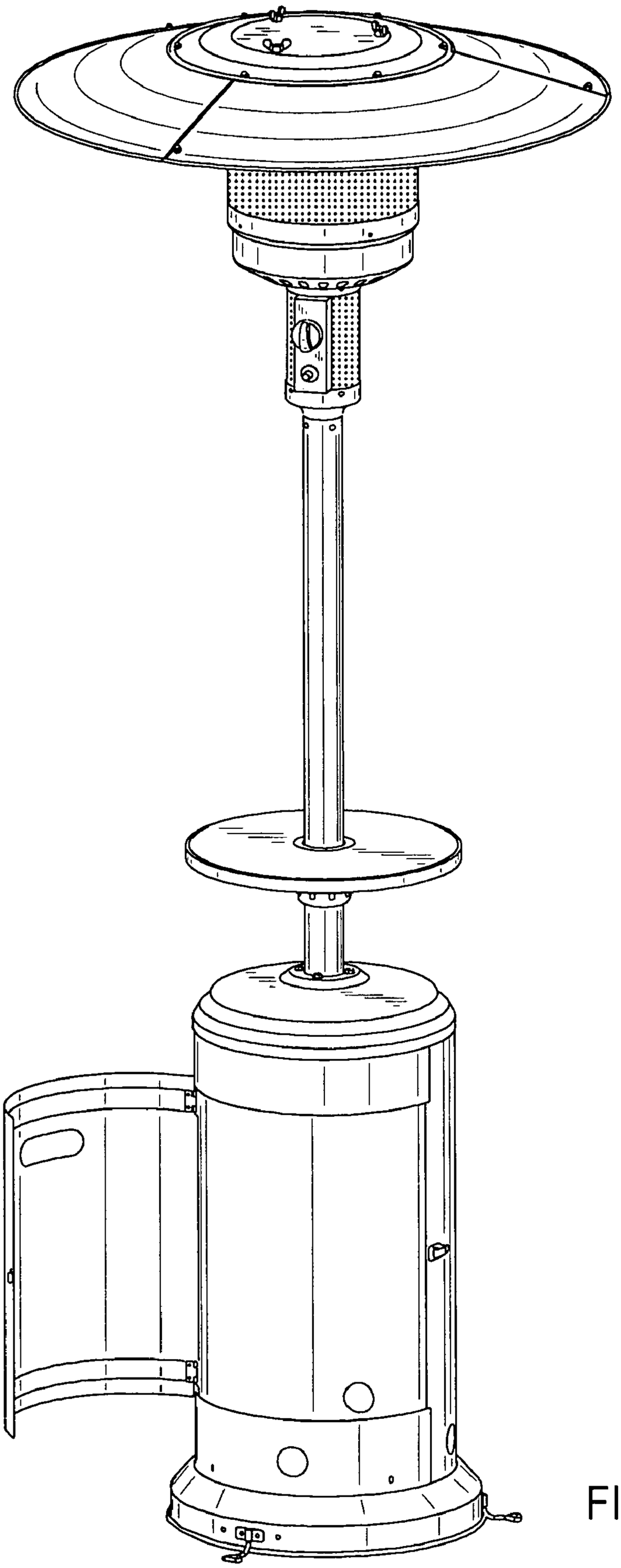

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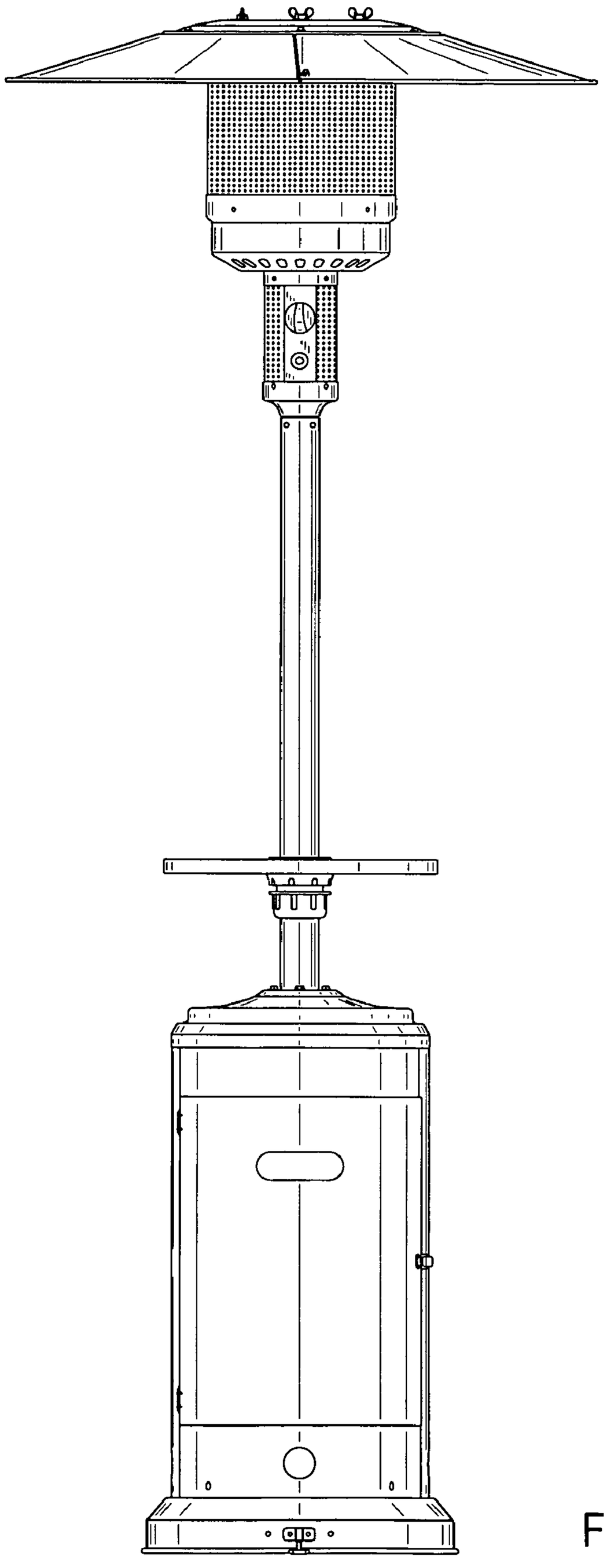

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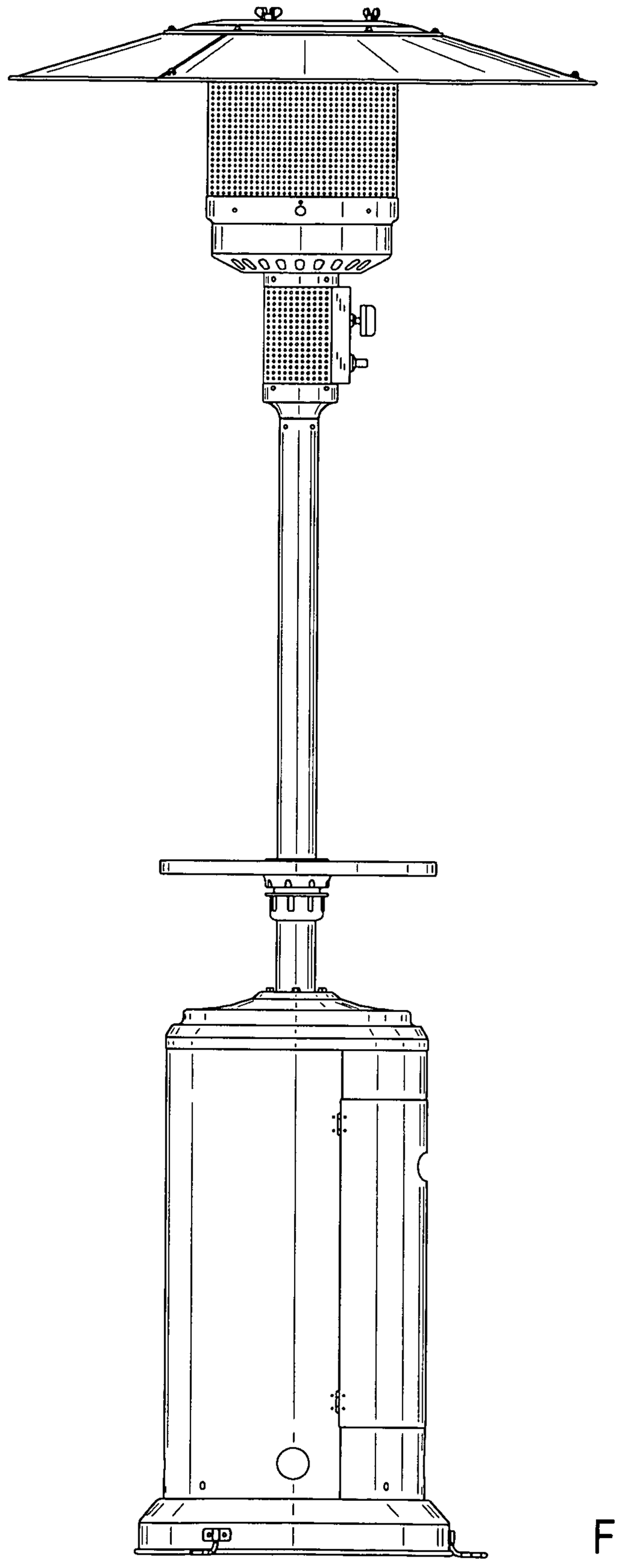

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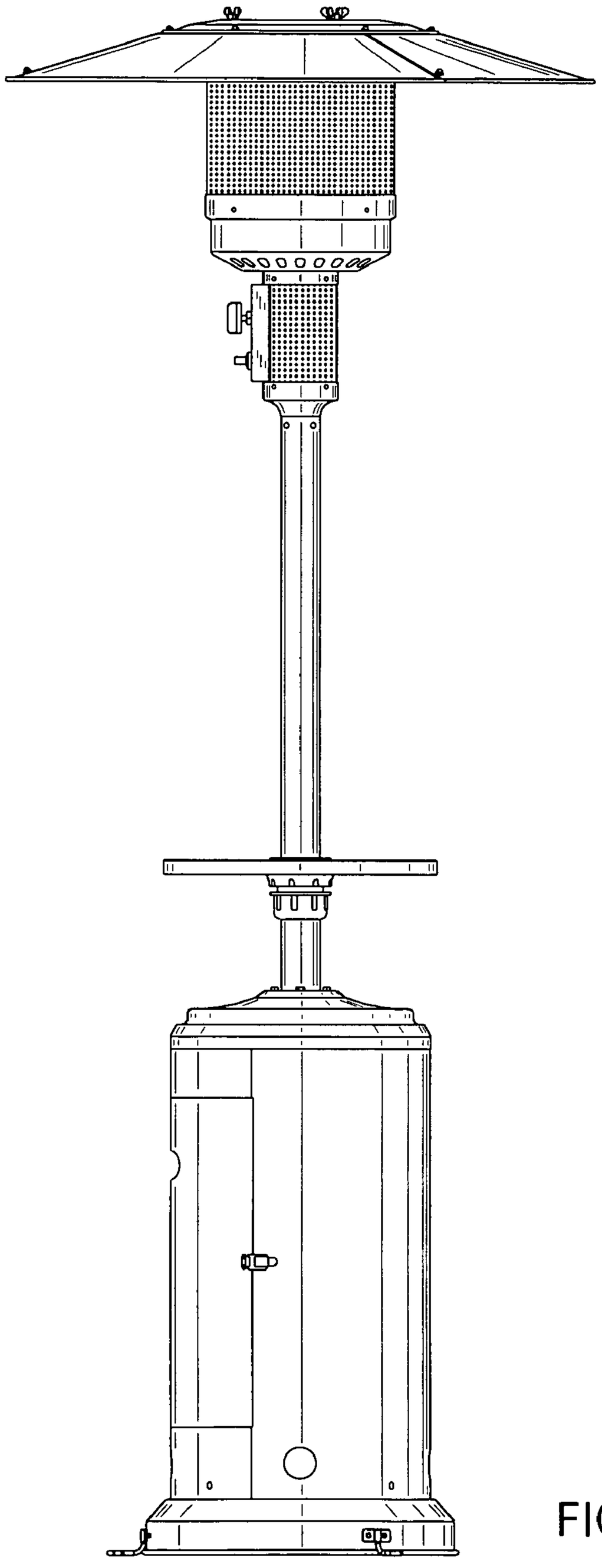
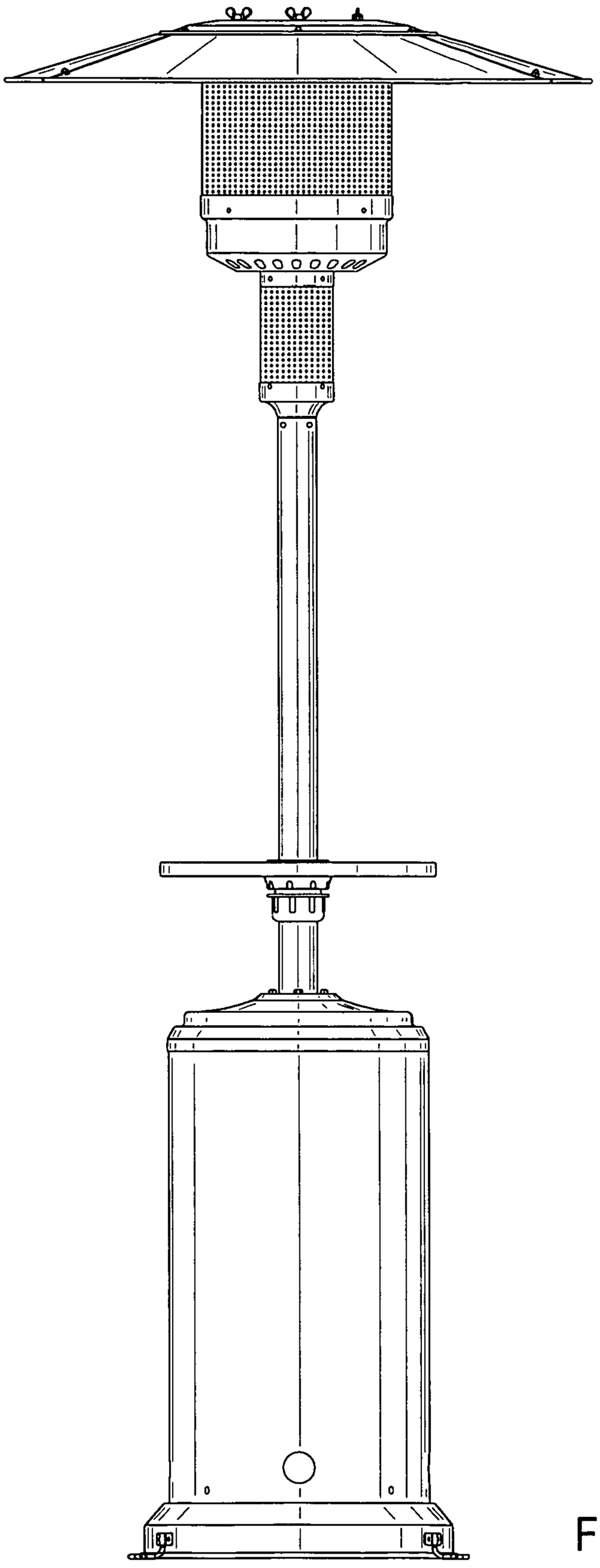


FIG.26



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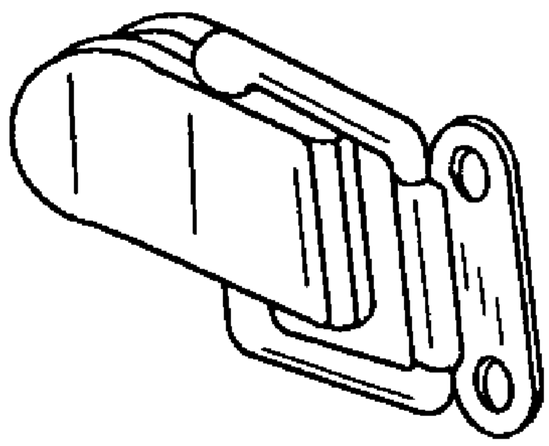

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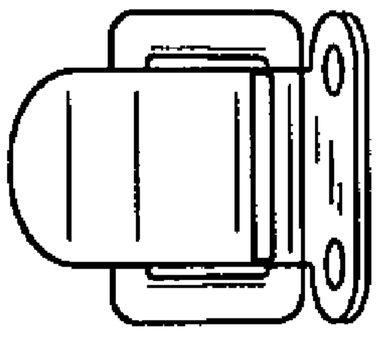

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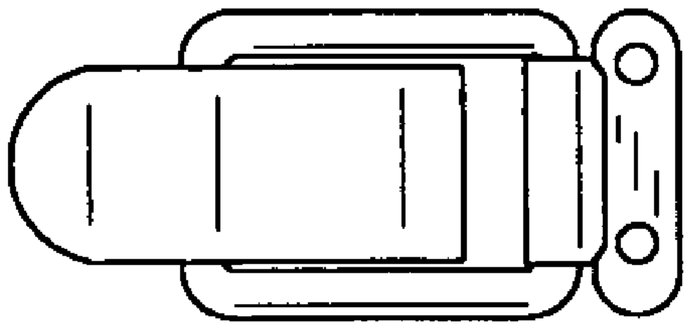

FIG.30