



US00D954373S

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

(10) **Patent No.:** **US D954,373 S**  
(45) **Date of Patent:** **\*\* Jun. 7, 2022**

(54) **FLOOR MOP**

FOREIGN PATENT DOCUMENTS

(71) Applicant: **Carl Freudenberg KG**, Weinheim (DE)

DE 10123522 C1 8/2002  
DE 202004010429 U1 10/2004

(Continued)

(72) Inventor: **Doug Metzel**, Lombard, IL (US)

OTHER PUBLICATIONS

(73) Assignee: **Carl Freudenberg KG**, Weinheim (DE)

O’Cedar ProMist mop, customer question Nov. 5, 2018, site visited Jul. 13, 2021, <https://www.homedepot.com/p/O-Cedar-ProMist-MAX-Microfiber-Spray-Mop-168022/300382891#overlay>.\*

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

(Continued)

(21) Appl. No.: **29/736,211**

(22) Filed: **May 28, 2020**

*Primary Examiner* — John R Yeh

**Related U.S. Application Data**

(74) *Attorney, Agent, or Firm* — Leydig, Voit & Mayer, Ltd.

(63) Continuation-in-part of application No. 16/528,050, filed on Jul. 31, 2019.

(51) **LOC (13) Cl.** ..... **07-05**

(52) **U.S. Cl.**  
USPC ..... **D32/45**

(58) **Field of Classification Search**  
USPC ..... D32/45, 50–52; D4/134–135, 199  
CPC ..... A47L 13/24; A47L 13/25; A47L 13/20;  
A47L 13/12  
See application file for complete search history.

(57) **CLAIM**

The ornamental design for a floor mop, as shown and described.

(56) **References Cited**

U.S. PATENT DOCUMENTS

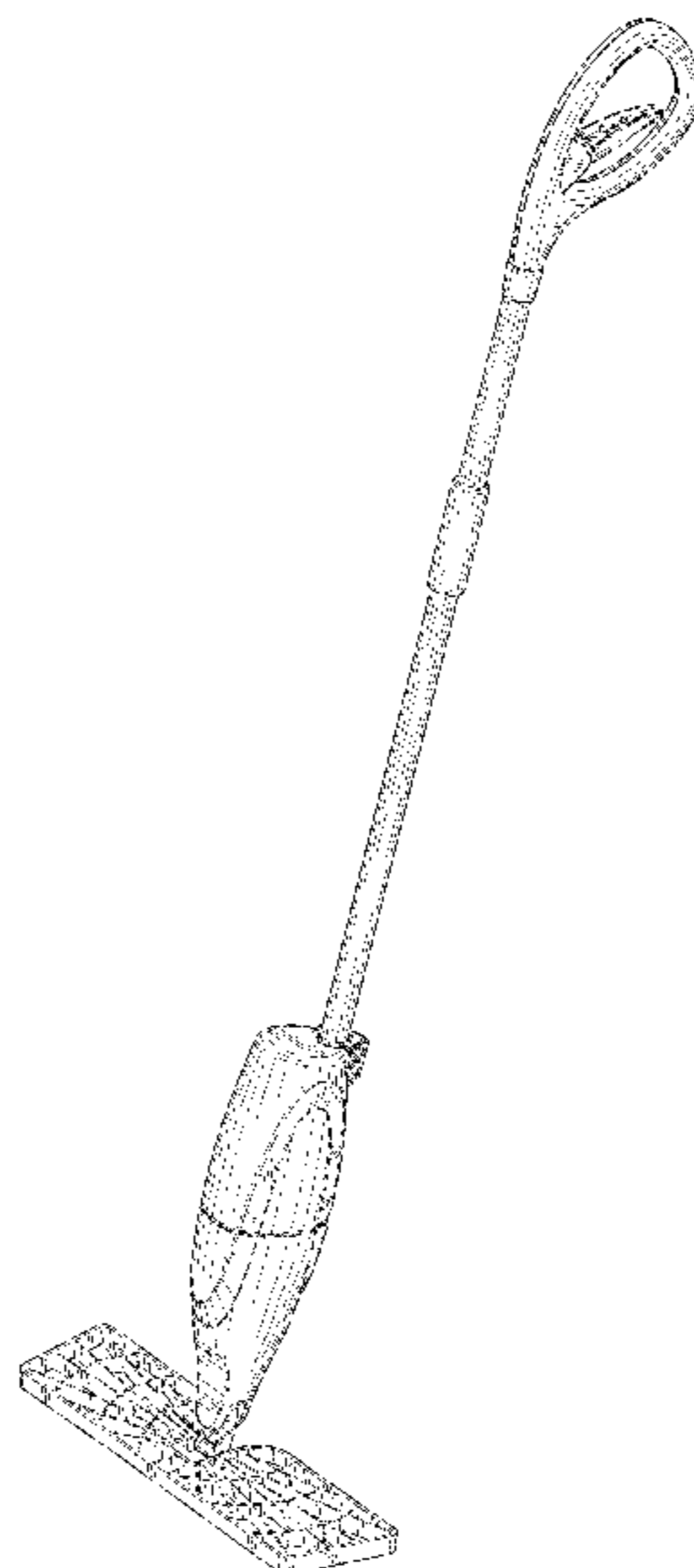
3,363,948	A *	1/1968	Carter	.....	F16B 2/065 403/233
3,775,802	A	12/1973	Grassman et al.		
3,977,570	A	8/1976	Smrt		
D401,703	S *	11/1998	Beechuk	.....	D32/45
D458,427	S *	6/2002	Kunkler	.....	D32/45
D482,829	S *	11/2003	Vosbikian	.....	D32/45
D487,174	S *	2/2004	Colman	.....	D32/45
6,836,923	B2 *	1/2005	Treacy	.....	A47L 13/25 15/147.2
D505,762	S *	5/2005	Lalanne	.....	D32/45

(Continued)

**DESCRIPTION**

FIG. 1 is a perspective view taken from the front and right side of a floor mop showing a first configuration for our new design  
FIG. 2 is a front view of the floor mop of FIG. 1 in the first configuration.  
FIG. 3 is a rear view of the floor mop of FIG. 1 in the first configuration.  
FIG. 4 is a top view of the floor mop of FIG. 1 in the first configuration.  
FIG. 5 is a bottom view of the spray mop of FIG. 1 in the first configuration.  
FIG. 6 is a right side elevation view of the floor mop of FIG. 1 in the first configuration; and,  
FIG. 7 is a left side elevation view of the spray mop of FIG. 1. In the first configuration.

**1 Claim, 4 Drawing Sheets**



(56)

References Cited

U.S. PATENT DOCUMENTS

7,127,772 B2 \* 10/2006 Dingert ..... A47L 13/12  
15/228  
D583,118 S \* 12/2008 Snyder ..... D32/51  
D599,517 S \* 9/2009 Vrdoljak ..... A47L 13/225  
D32/40  
D607,168 S \* 12/2009 Libman ..... D32/45  
D657,928 S \* 4/2012 Byrne ..... D32/50  
D660,533 S \* 5/2012 Hill ..... D32/45  
D664,729 S \* 7/2012 Robertson ..... D32/50  
D673,748 S \* 1/2013 Snyder ..... D32/50  
8,425,137 B1 \* 4/2013 Sampaio ..... A47L 13/22  
401/139  
D747,054 S \* 1/2016 Seifts ..... D32/45  
D765,330 S \* 8/2016 Lentine ..... D32/45  
D806,338 S \* 12/2017 Metzel ..... D32/45  
D810,371 S \* 2/2018 Lentine ..... D32/45  
D817,574 S \* 5/2018 Libman ..... D32/50  
10,034,592 B2 \* 7/2018 Vrdoljak ..... A47L 13/225  
D834,778 S \* 11/2018 Palladino ..... D32/45  
D866,895 S \* 11/2019 McDonnell ..... D32/45  
D922,712 S \* 6/2021 Harrington ..... D32/50  
2004/0146332 A1 7/2004 Fu  
2006/0195996 A1 \* 9/2006 Petner ..... A47L 13/12  
15/118  
2007/0107153 A1 5/2007 Gullicks et al.  
2007/0209139 A1 9/2007 Carlucci et al.  
2007/0240268 A1 \* 10/2007 Le ..... A47L 13/20  
15/98

2013/0104327 A1 \* 5/2013 Borofsky ..... A47L 13/12  
15/115  
2016/0256029 A1 \* 9/2016 Weaver ..... A47L 13/12  
2020/0253449 A1 \* 8/2020 Enger ..... A47L 13/24

FOREIGN PATENT DOCUMENTS

WO WO 01/72195 A1 10/2001  
WO WO 2006/002919 A1 1/2006

OTHER PUBLICATIONS

O Cedar Promist mop review, article date Dec. 8, 2021, site visited Jan. 20, 2021, <https://mopreviews.com/o-cedar-promist-max-spray-mop-review/>.  
O Cedar Promist, Bigdealsbay website 2022, site visited Jan. 20, 2021, <https://bigdealsbay.com/products/cedar-promist-max-spray-mop-1-extra-refill-red?variant=40295896187077>.  
European Patent Office, International Search Report in International Patent Application No. PCT/IB2020/057037, 5 pp. (dated Oct. 29, 2020).  
European Patent Office, Written Opinion in International Patent Application No. PCT/IB2020/057037, 8 pp. (dated Oct. 29, 2020).  
European Patent Office, International Search Report in International Patent Application No. PCT/IB2020/057034, 4 pp. (dated Oct. 20, 2020).  
European Patent Office, Written Opinion in International Patent Application No. PCT/IB2020/057034, 6 pp. (dated Oct. 20, 2020).

\* cited by examiner

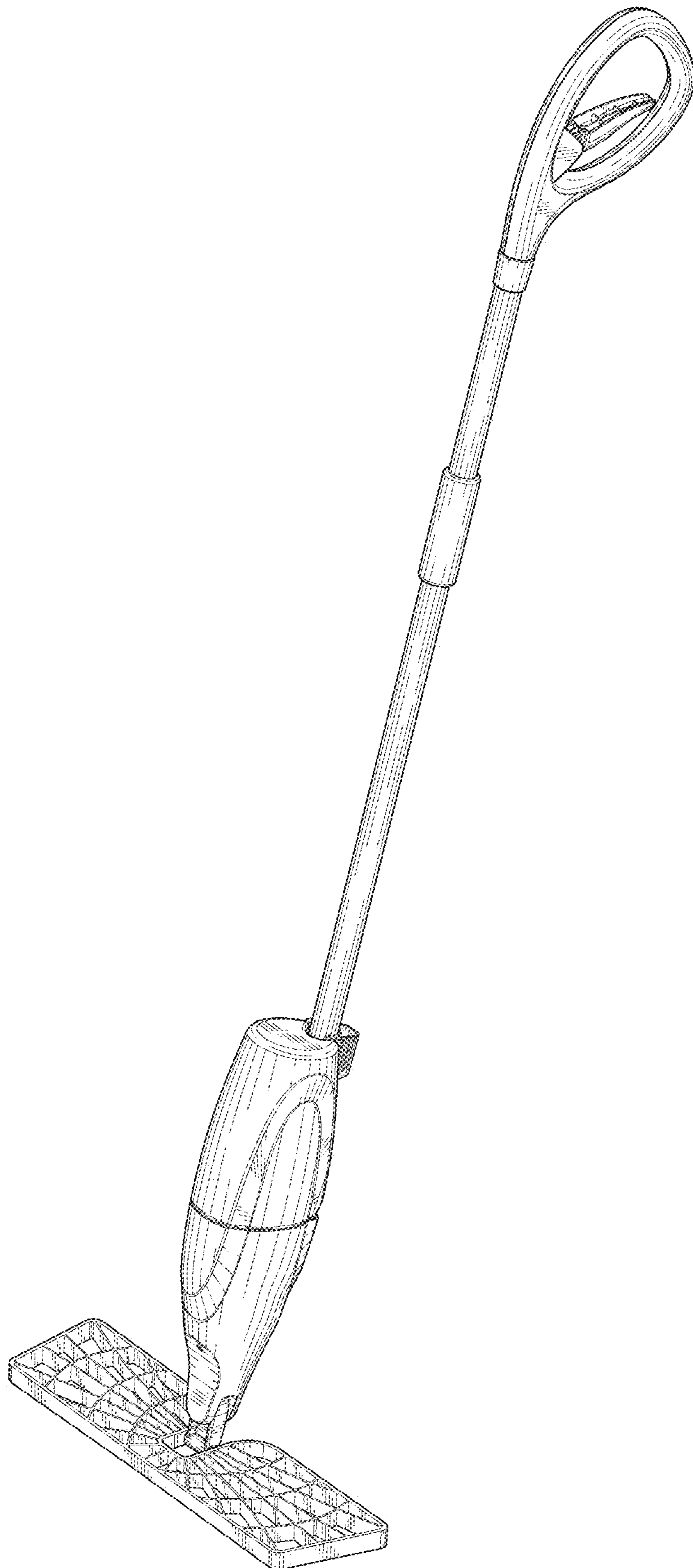


FIG. 1



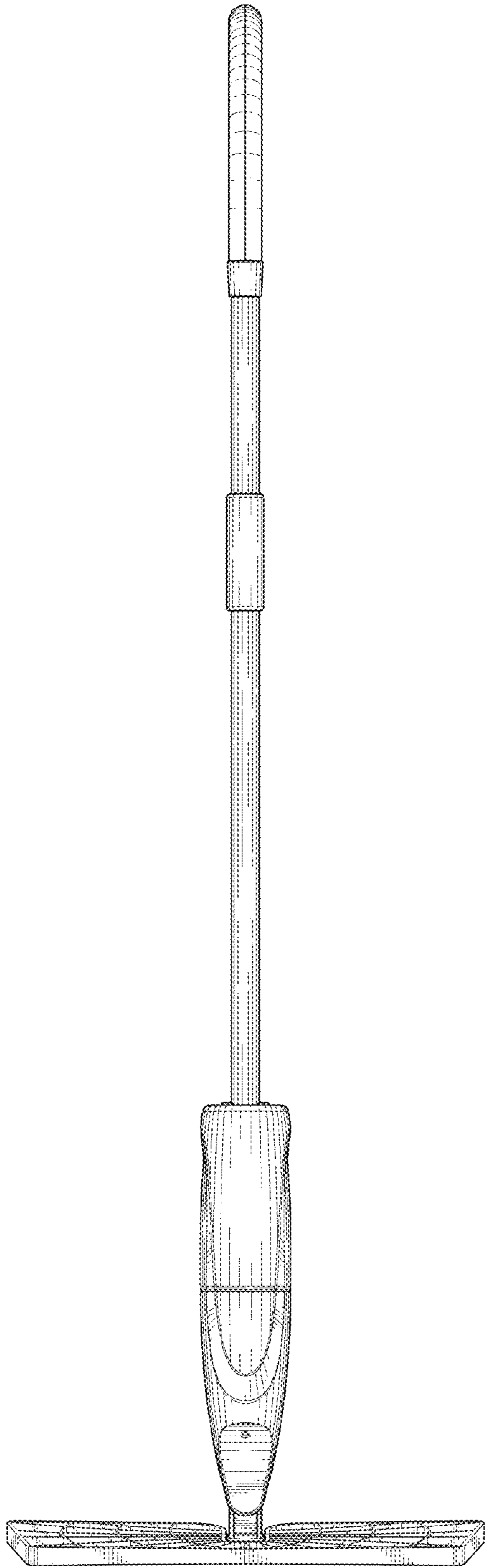


FIG. 2

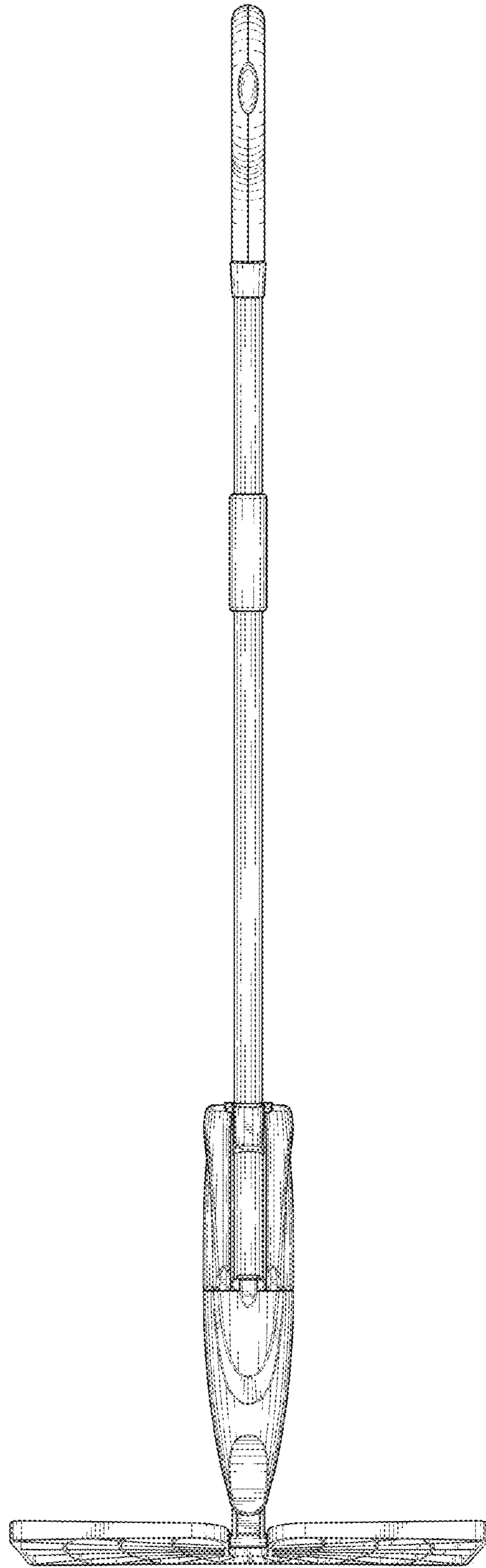


FIG. 3

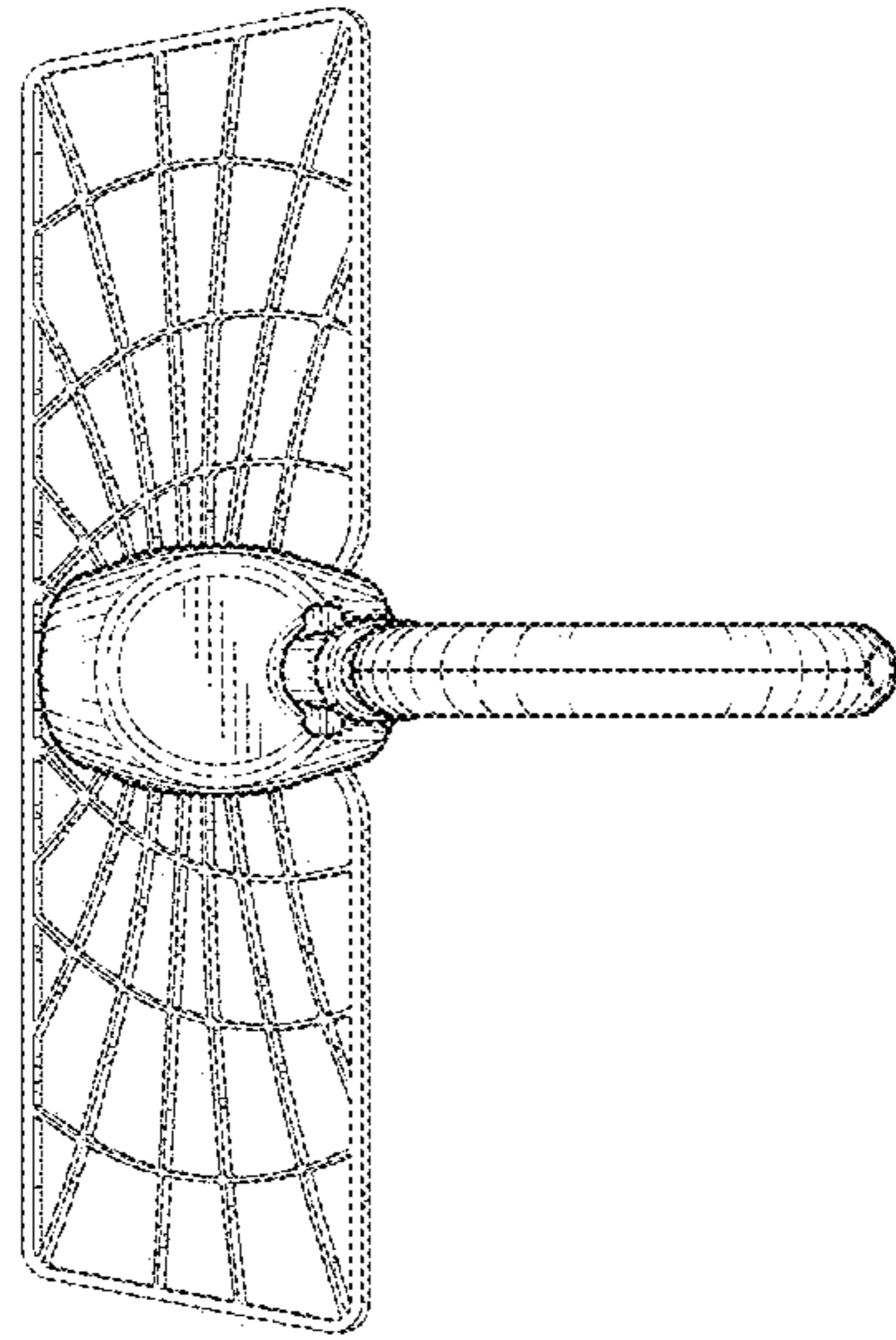


FIG. 4

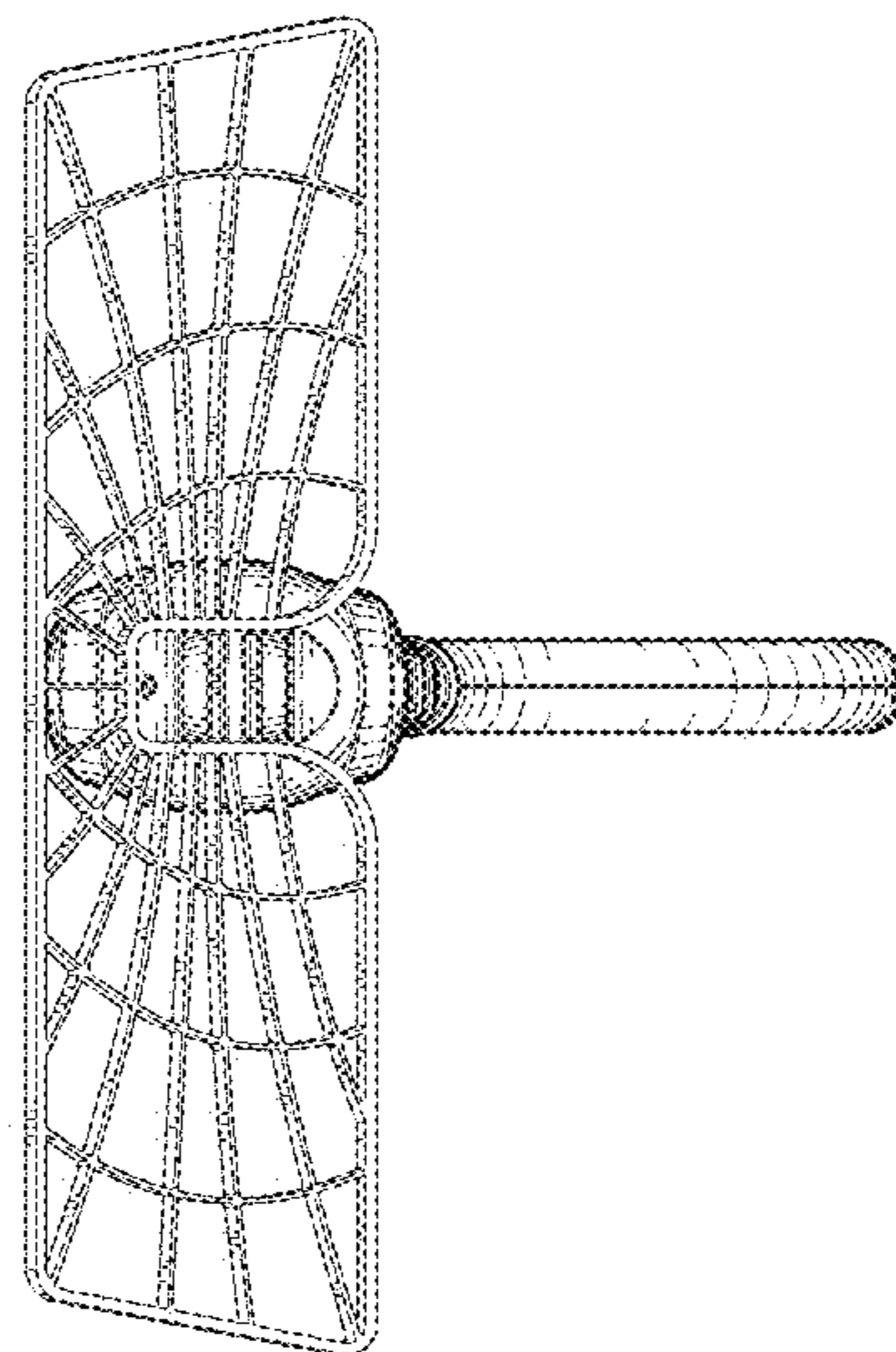


FIG. 5

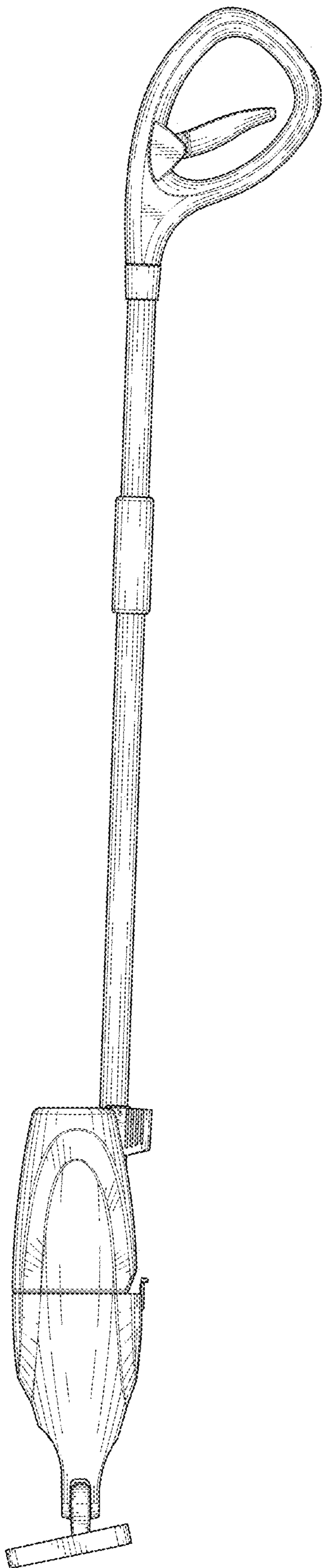


FIG. 6

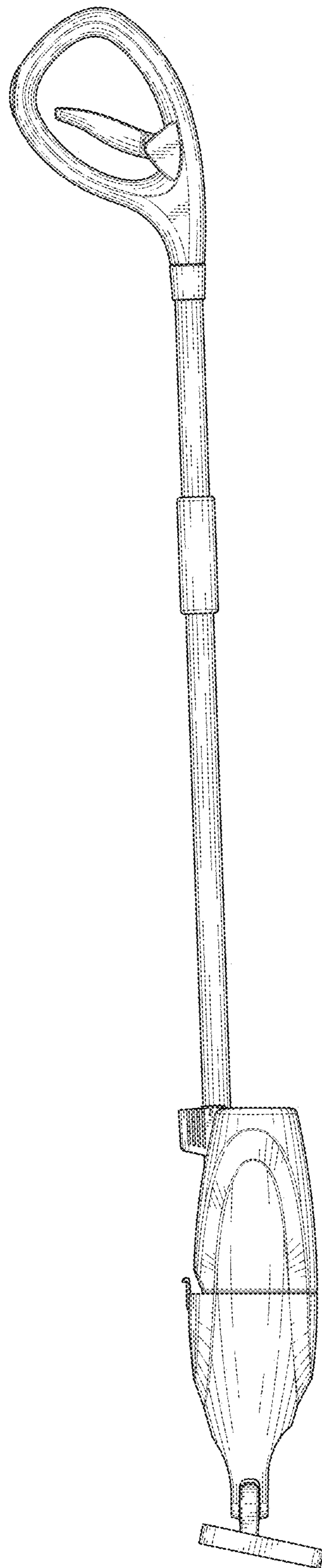


FIG. 7