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(12) **United States Design Patent**  
**Tao et al.**

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(54) **ELECTRIC SWEEPER**

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

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(52) **U.S. Cl.**  
USPC ..... **D32/38**

(58) **Field of Classification Search**  
USPC ..... D32/15–24, 31–33, 38–39; D4/119, 127, D4/128  
CPC ..... A47L 7/02; A47L 11/33; A47L 9/0411; A47L 9/0422; A47L 11/24  
See application file for complete search history.

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

D170,176	S	*	8/1953	Verhagen	.....	D32/20
D180,430	S	*	6/1957	Verhagen	.....	D32/20
D191,097	S	*	8/1961	Reed	.....	D32/20
D212,859	S	*	12/1968	Descarries	.....	D32/20
D289,933	S	*	5/1987	Berfield	.....	D32/20
D349,793	S	*	8/1994	Zahuranec	.....	D32/38
D497,694	S	*	10/2004	Wareham	.....	D32/19
D501,282	S	*	1/2005	Robertson	.....	D32/38
D501,588	S	*	2/2005	Harper	.....	D32/38
D570,061	S	*	5/2008	Busse	.....	D32/19
7,373,685	B2	*	5/2008	Nam	.....	A47L 5/34 15/41.1

D599,066	S	*	8/2009	Baker	.....	D32/38
D626,301	S	*	10/2010	Raven	.....	D32/38
D639,005	S	*	5/2011	Luyckx	.....	D32/38
D653,414	S	*	1/2012	Genoa	.....	D32/38
D657,102	S	*	4/2012	Kaleta	.....	A47L 11/33 D32/38
D665,139	S	*	8/2012	Genoa	.....	D32/38
D704,398	S	*	5/2014	Tinius	.....	D32/16
D750,856	S	*	3/2016	De Smedt	.....	D32/20
2005/0011028	A1	*	1/2005	Chow	.....	A47L 11/24 15/41.1
2005/0066467	A1	*	3/2005	Moshenrose	.....	A47L 9/0422 15/246.2
2005/0155169	A1	*	7/2005	Cheah	.....	A47L 9/0411 15/42
2009/0077761	A1	*	3/2009	Kaleta	.....	A47L 11/33 15/88.4

(Continued)

*Primary Examiner* — Michelle E. Wilson

(57) **CLAIM**

The ornamental design for an electric sweeper, as shown and described.

**DESCRIPTION**

FIG. 1 is a perspective view of the electric sweeper showing my new design;

FIG. 2 is similar to FIG. 1, but viewed from another aspect;

FIG. 3 is a front elevational view thereof;

FIG. 4 is a rear elevational view thereof;

FIG. 5 is a left side elevational view thereof;

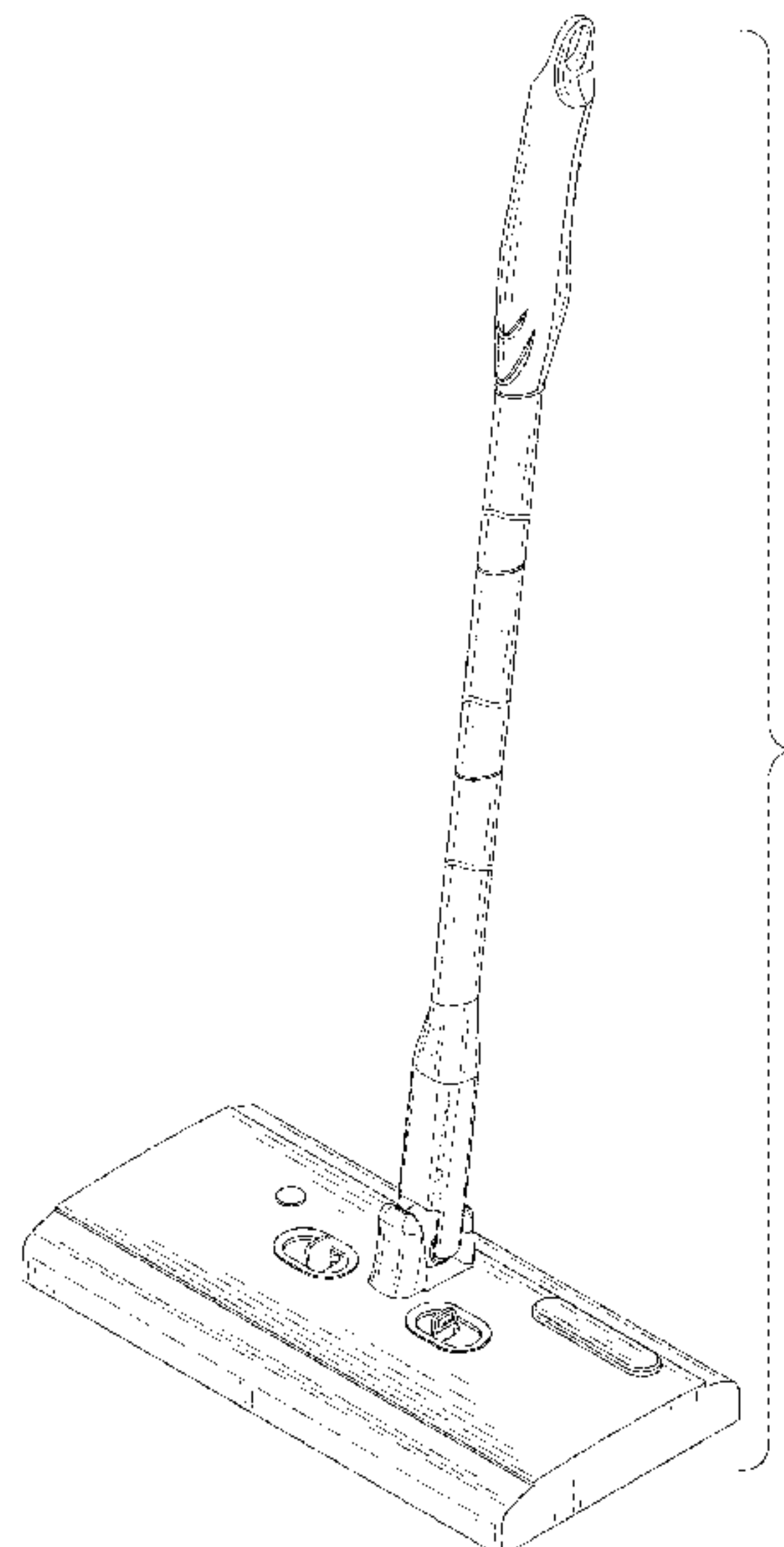
FIG. 6 is a right side elevational view thereof;

FIG. 7 is a top plan view thereof; and,

FIG. 8 is a bottom plan view thereof.

The broken away portions of the electric sweeper shown in the drawings indicate that any portion of the article shown in between the broken away portions form no part of the claimed design.

**1 Claim, 8 Drawing Sheets**



(56)

**References Cited**

U.S. PATENT DOCUMENTS

2011/0138570 A1\* 6/2011 Hsu ..... A47L 7/02  
15/383

\* cited by examiner

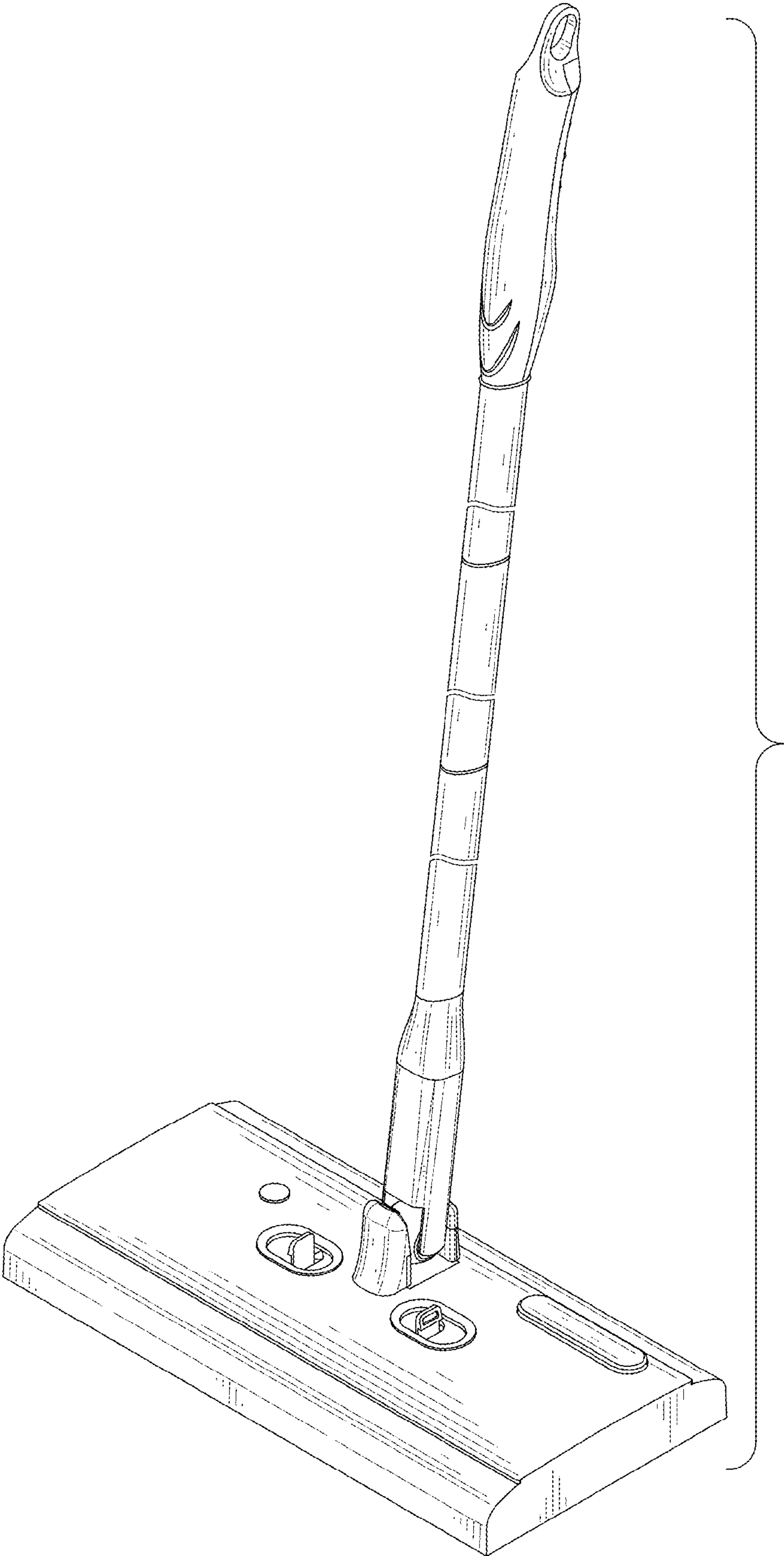


FIG. 1

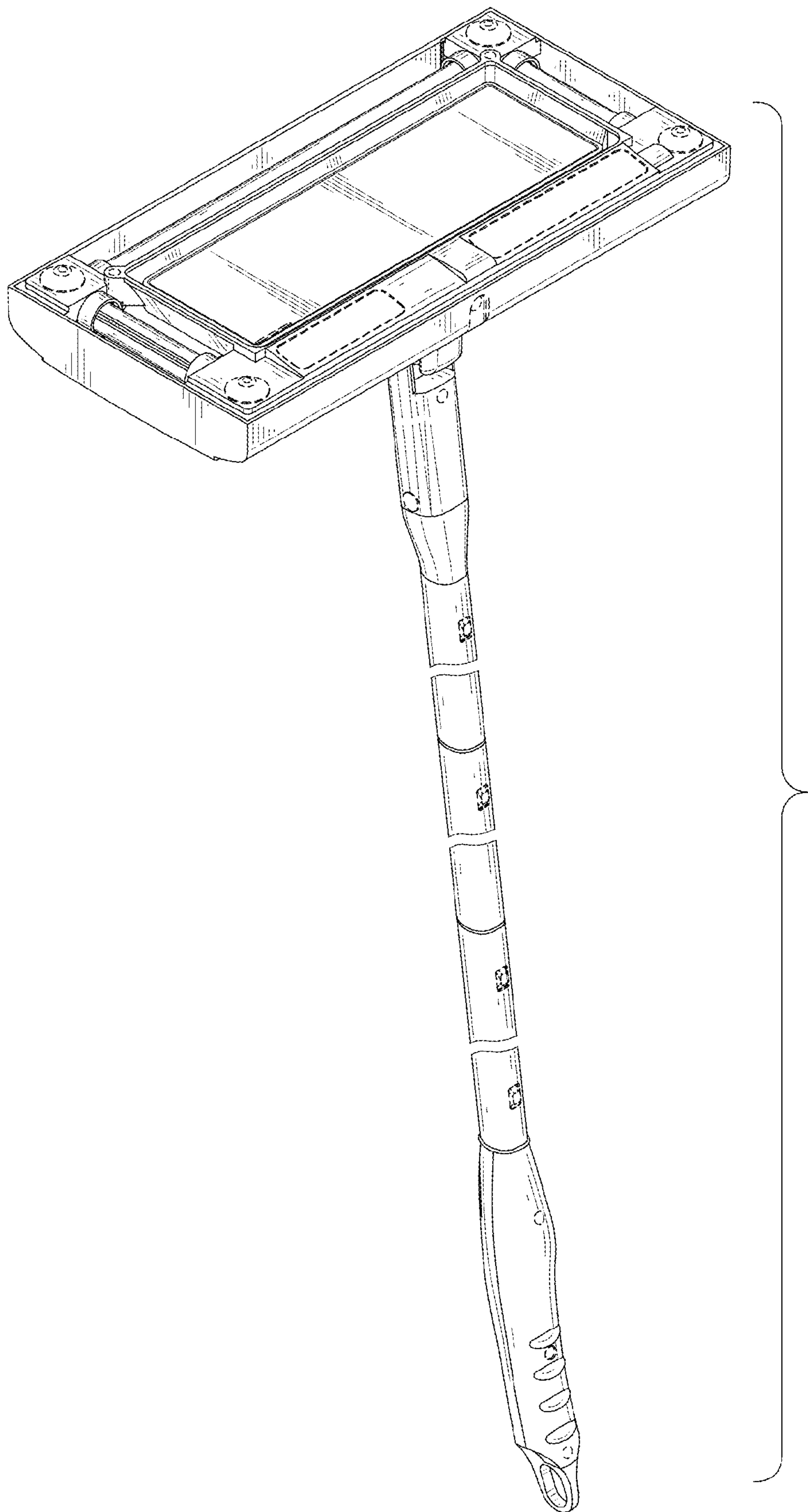


FIG. 2

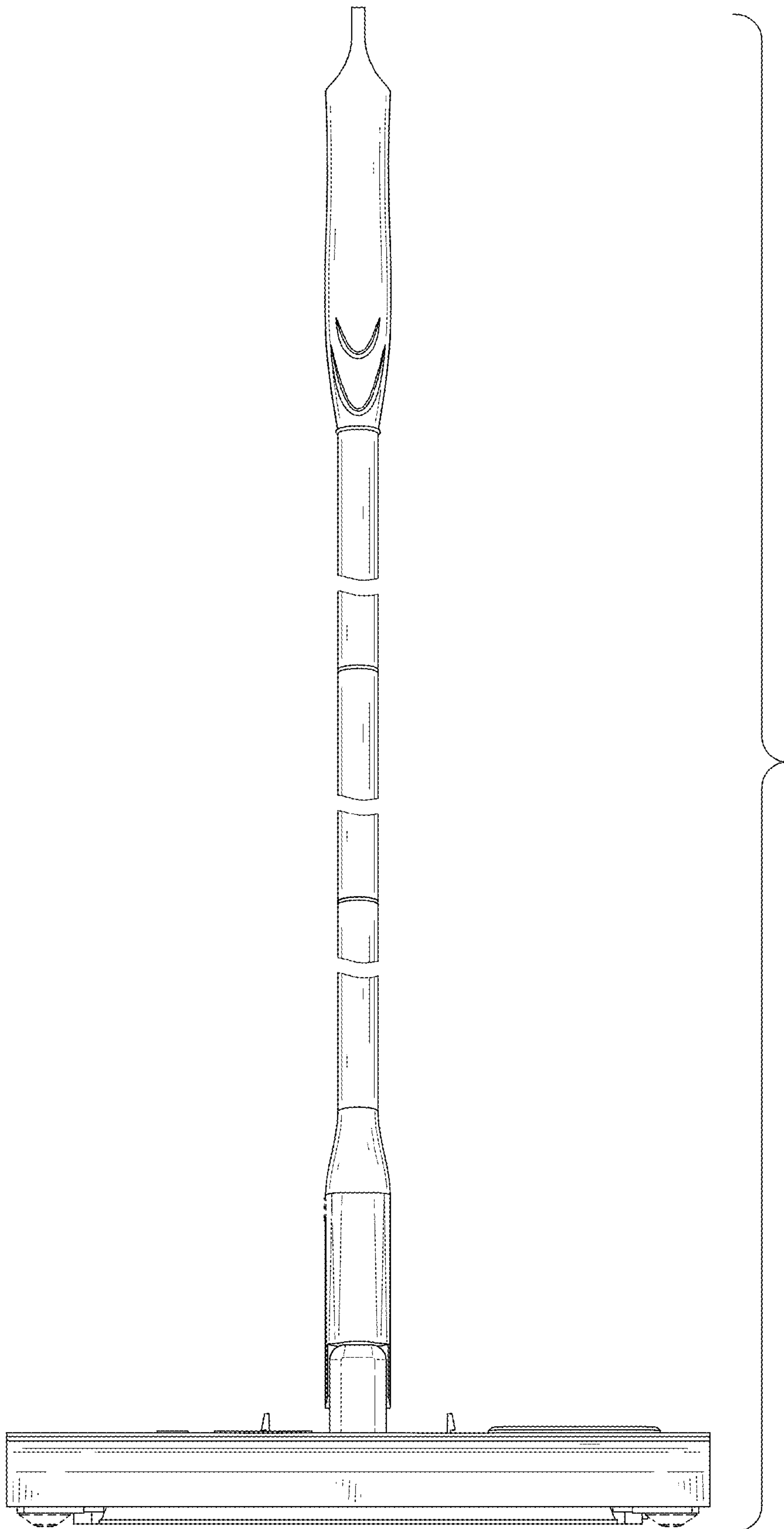


FIG. 3

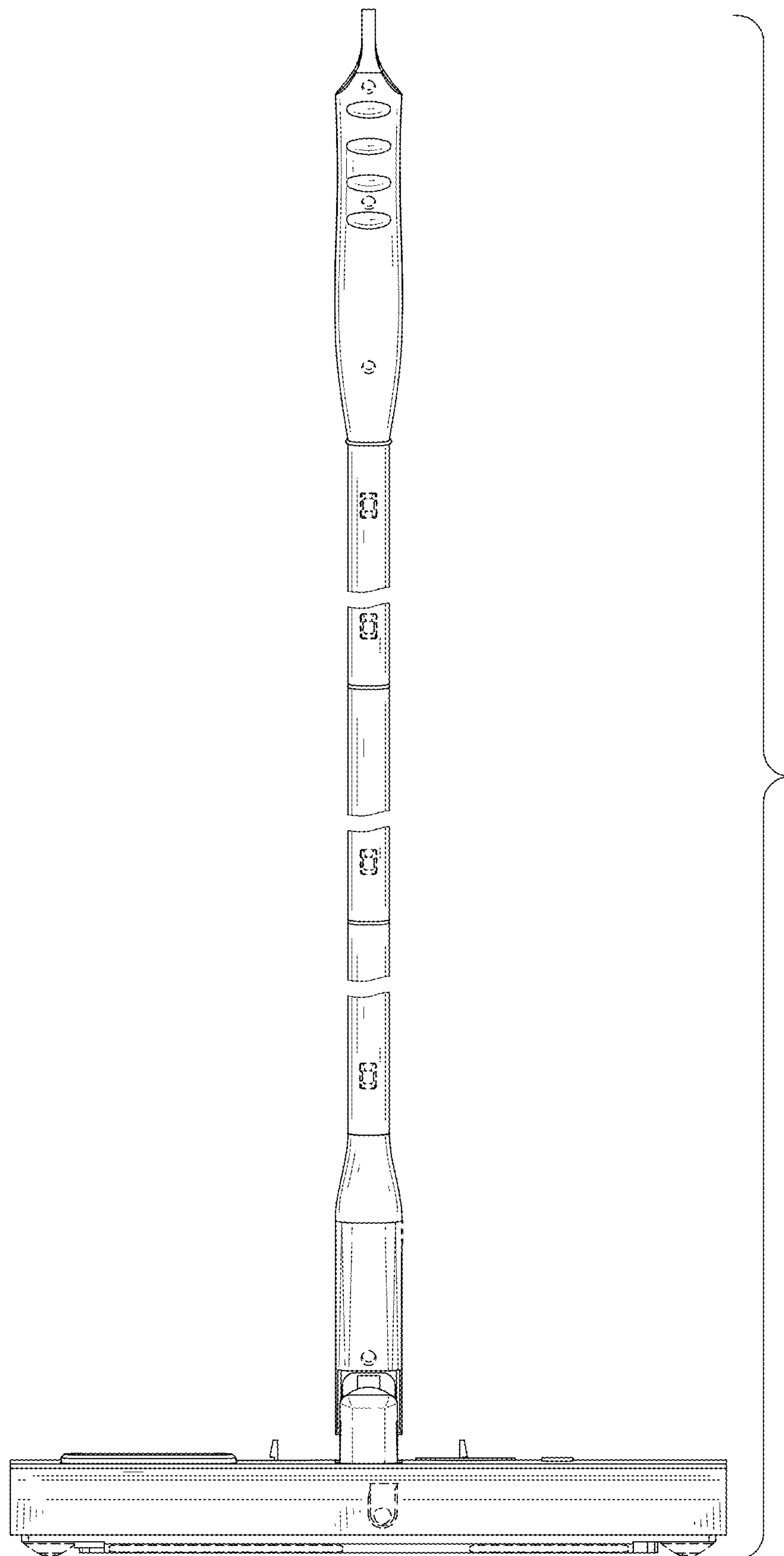


FIG. 4



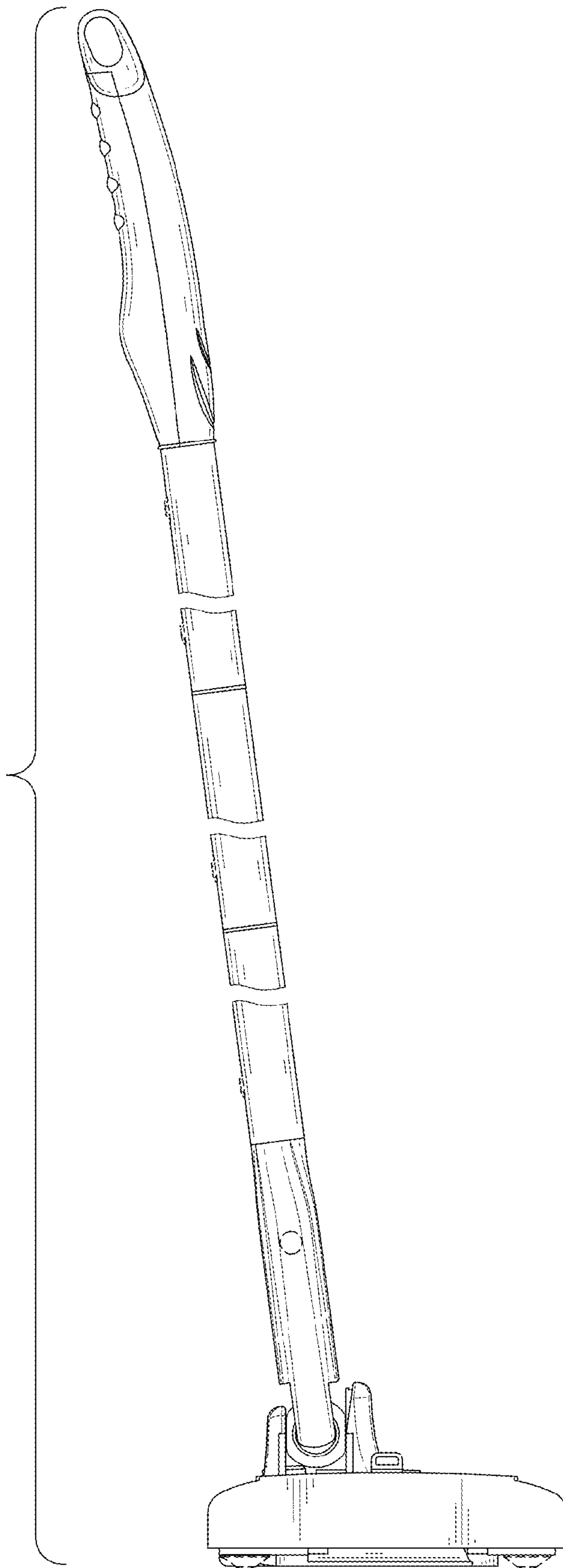


FIG. 5

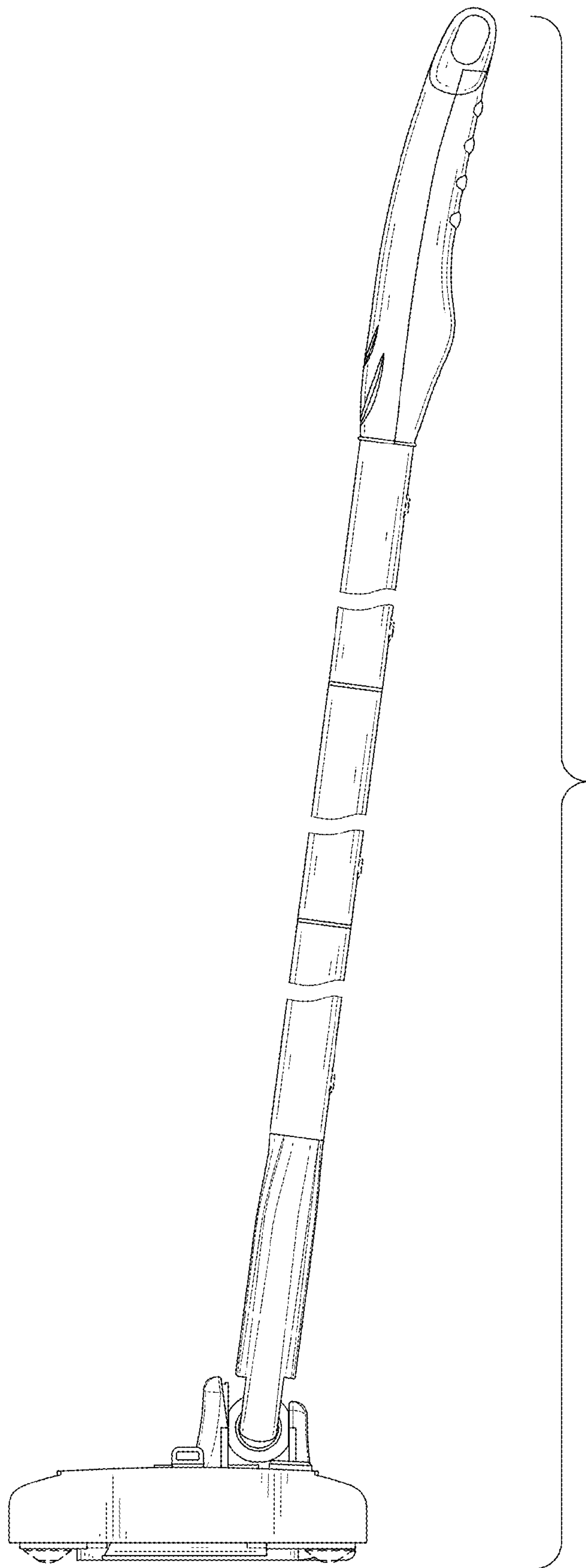


FIG. 6



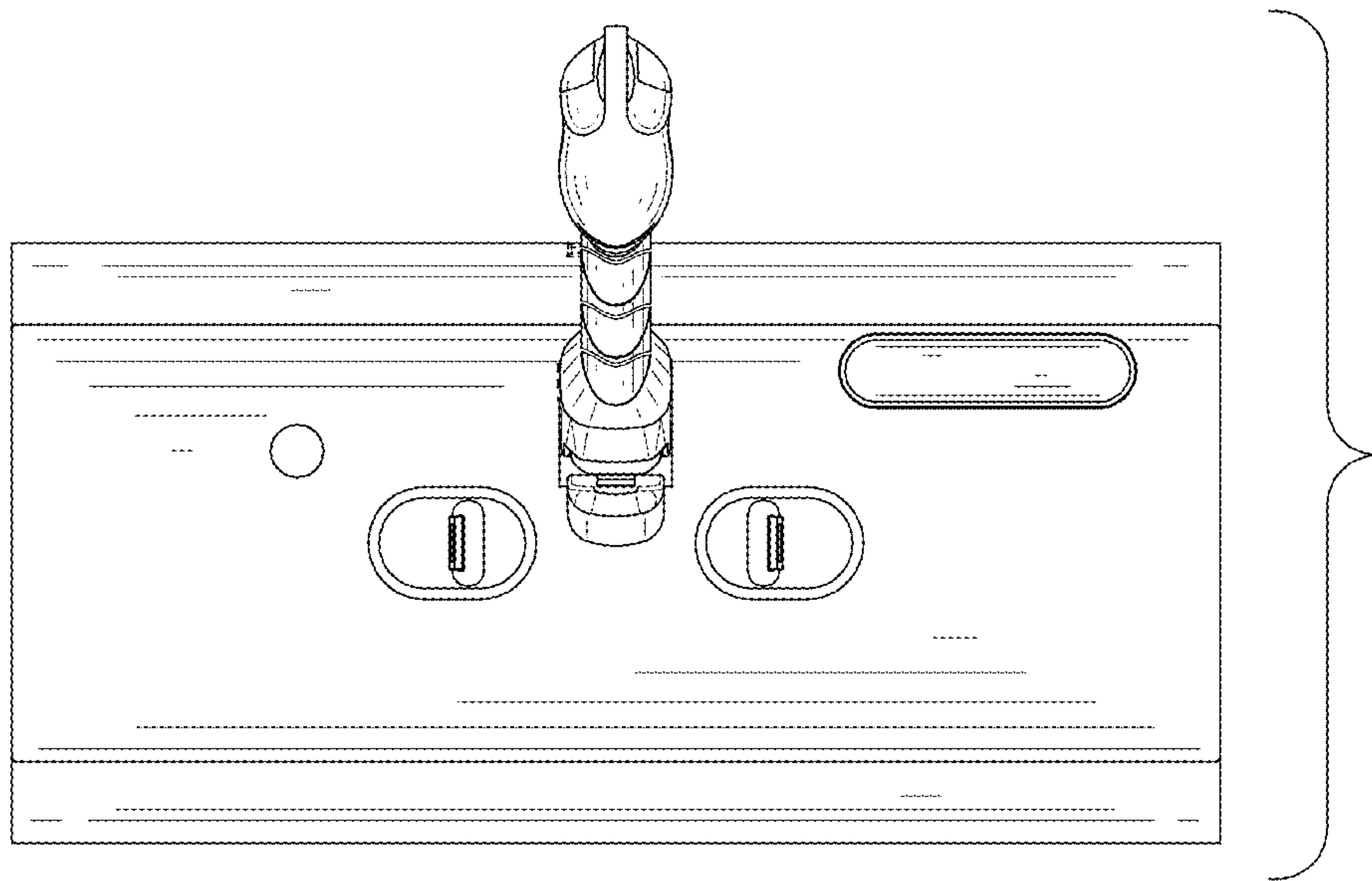


FIG. 7

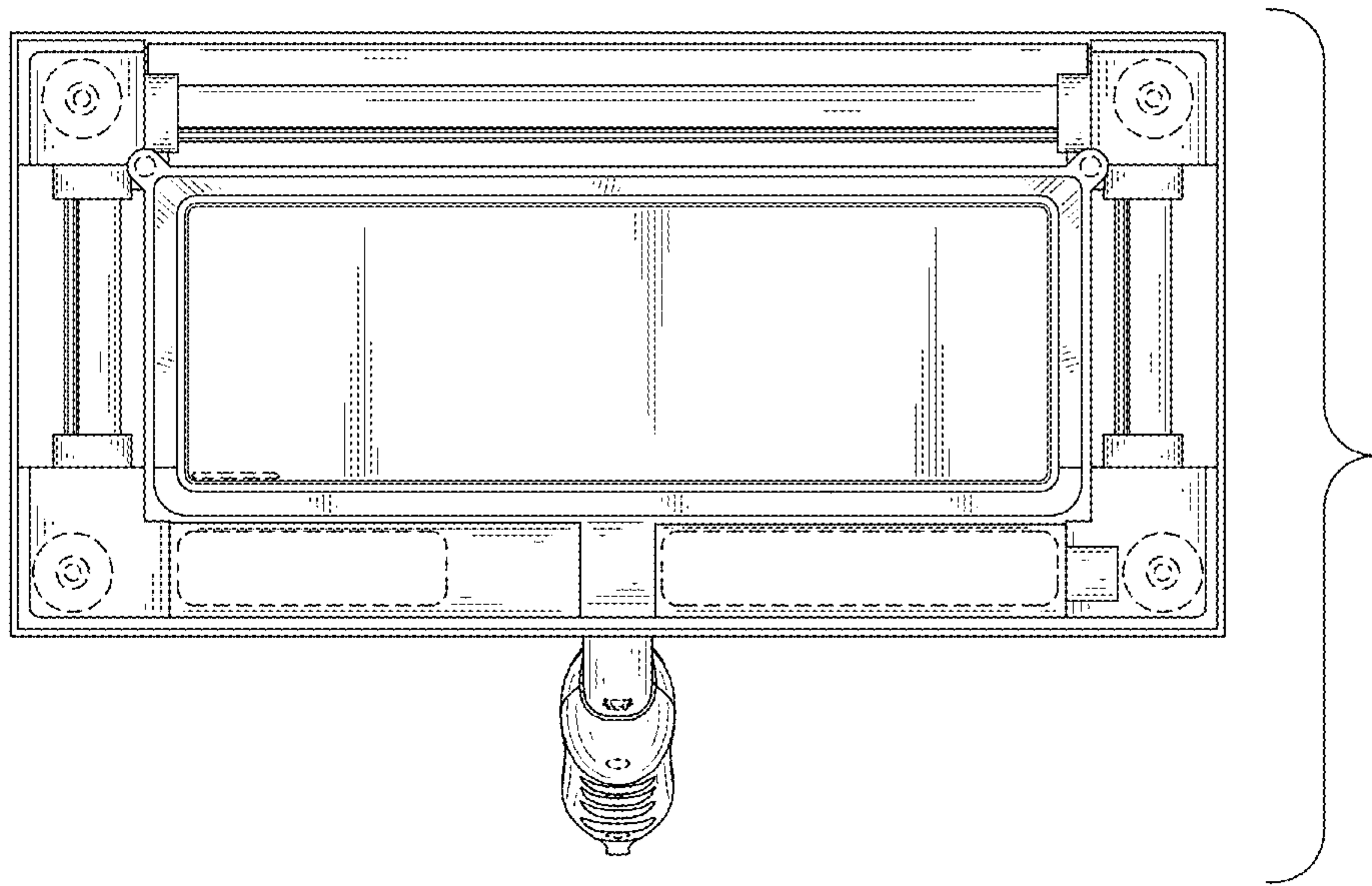


FIG. 8