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

(10) **Patent No.:** **US D868,403 S**

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- (54) **HANDHELD VACUUM CLEANER**
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- (**) Term: **15 Years**
- (21) Appl. No.: **29/675,619**
- (22) Filed: **Jan. 4, 2019**
- (51) **LOC (12) Cl.** **15-05**
- (52) **U.S. Cl.**
USPC **D32/18**
- (58) **Field of Classification Search**
USPC D32/17-18, 22, 31-34; 15/302, 321
CPC ... A47L 5/24; A47L 5/225; A47L 5/36; A47L 5/28; A47L 9/32; A47L 9/325; A47L 9/327; A47L 9/244
See application file for complete search history.

D571,063 S	6/2008	Brown	
D608,063 S *	1/2010	Okuda	D32/18
D608,511 S *	1/2010	Okuda	D32/18
D608,961 S *	1/2010	Reese	D32/18
D648,496 S	11/2011	Luyckx et al.	
D660,528 S *	5/2012	Okuda	D32/18
D696,825 S *	12/2013	Sweeney	D32/18
D697,679 S	1/2014	Wolfe, Jr. et al.	
D720,102 S *	12/2014	Gu	D32/18
D724,798 S	3/2015	Carter et al.	
D773,130 S	11/2016	Gray	
D792,038 S *	7/2017	Yoon	D32/18
D792,039 S *	7/2017	Yoon	D32/18
D806,331 S *	12/2017	Chu	D32/18

* cited by examiner

Primary Examiner — Ruth McInroy

(57) **CLAIM**

The ornamental design for a handheld vacuum cleaner, as shown and described.

DESCRIPTION

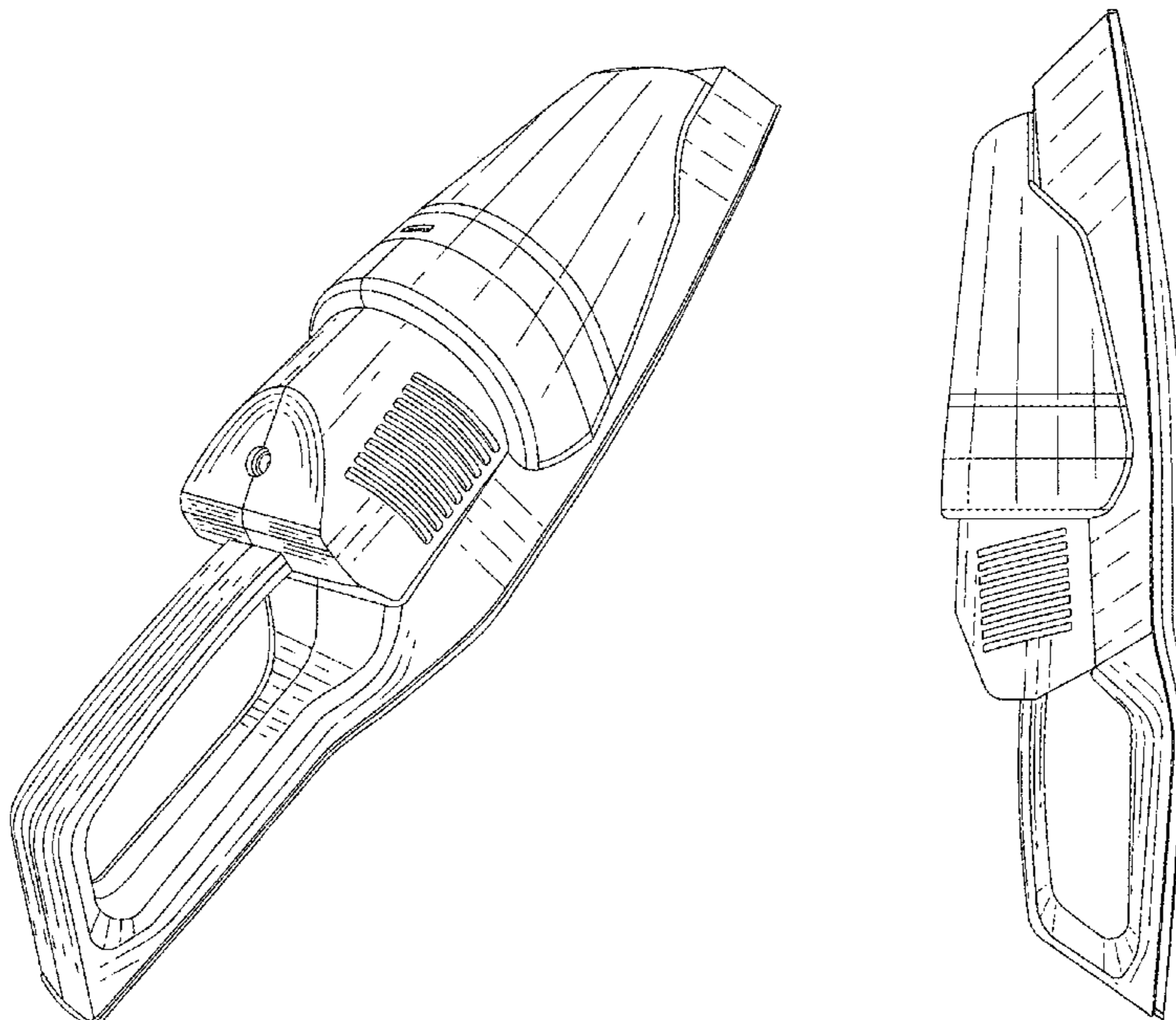
FIG. 1 is a top, rear and left side perspective view of a handheld vacuum cleaner showing my new design; FIG. 2 is a bottom and right side perspective view thereof; FIG. 3 is a front elevation view thereof, shown enlarged in scale; FIG. 4 is a rear elevation view thereof, shown enlarged in scale; FIG. 5 is a left side elevation view thereof; FIG. 6 is a right side elevation view thereof; FIG. 7 is a top plan view thereof; and, FIG. 8 is a bottom plan view thereof. The broken lines are for the purpose of illustrating portions of the article that form no part of the claimed design.

1 Claim, 8 Drawing Sheets

(56) **References Cited**

U.S. PATENT DOCUMENTS

D297,377 S *	8/1988	Chui	D32/18
D304,104 S *	10/1989	Busalt	D32/18
5,869,947 A *	2/1999	Zahuranec	A47L 5/24 320/115
6,546,592 B1 *	4/2003	Cockburn	A47L 5/24 15/344
D483,533 S *	12/2003	Ki	D32/18
D501,065 S	1/2005	Ma	
D507,385 S *	7/2005	Ma	D32/18
D514,758 S *	2/2006	Lau	D32/18
D530,464 S	10/2006	Tai	



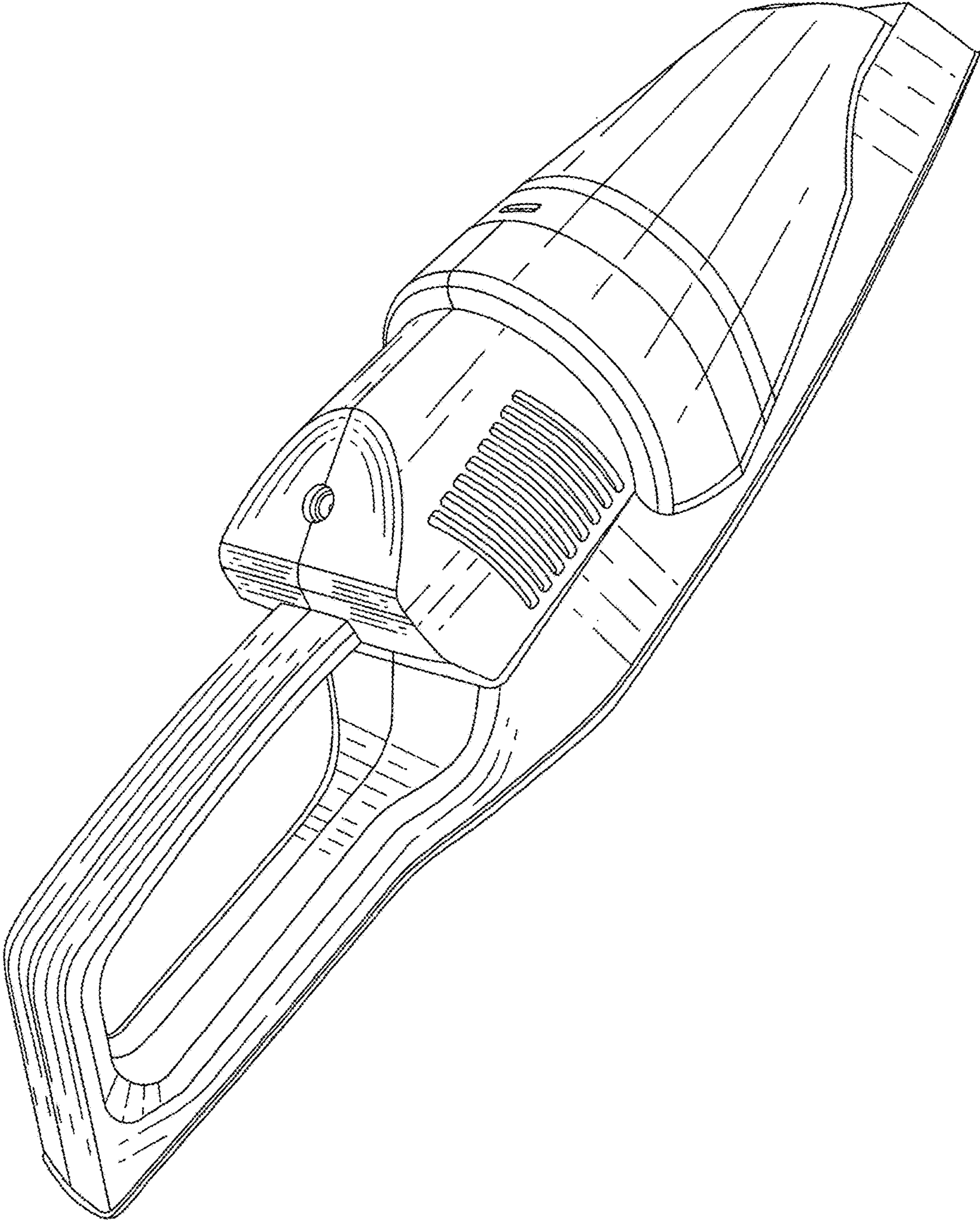


FIG.1

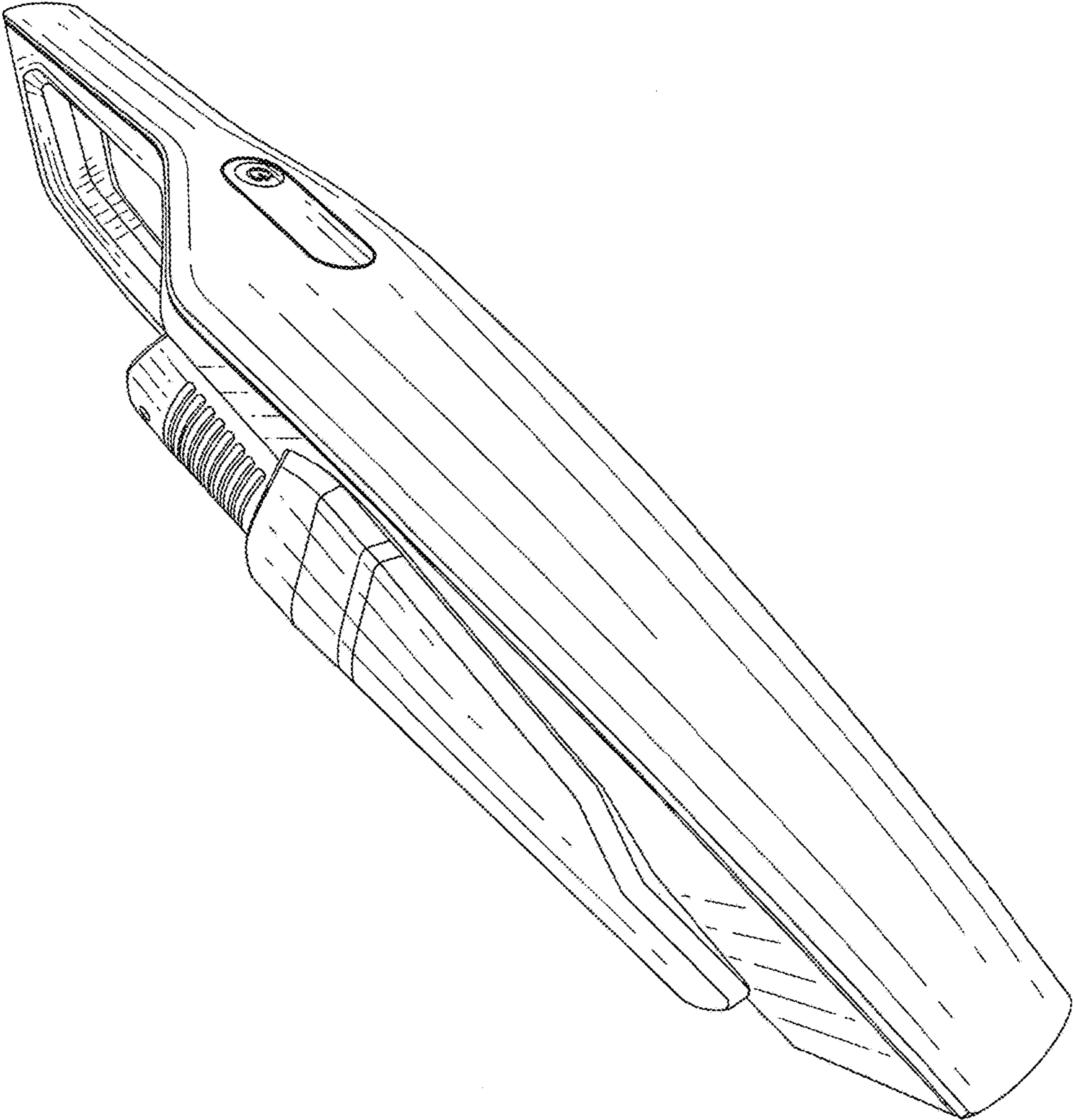


FIG.2

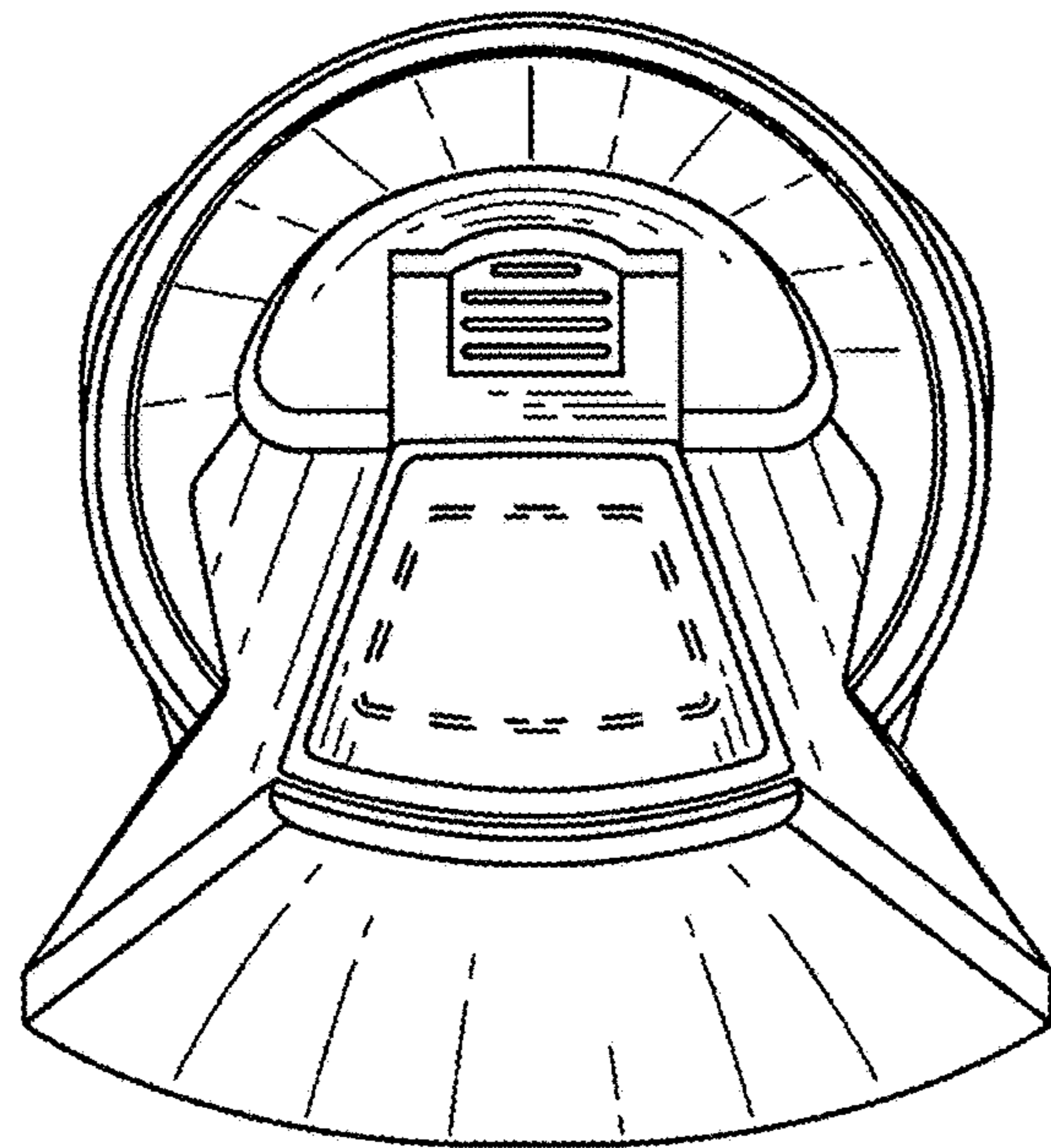


FIG.3

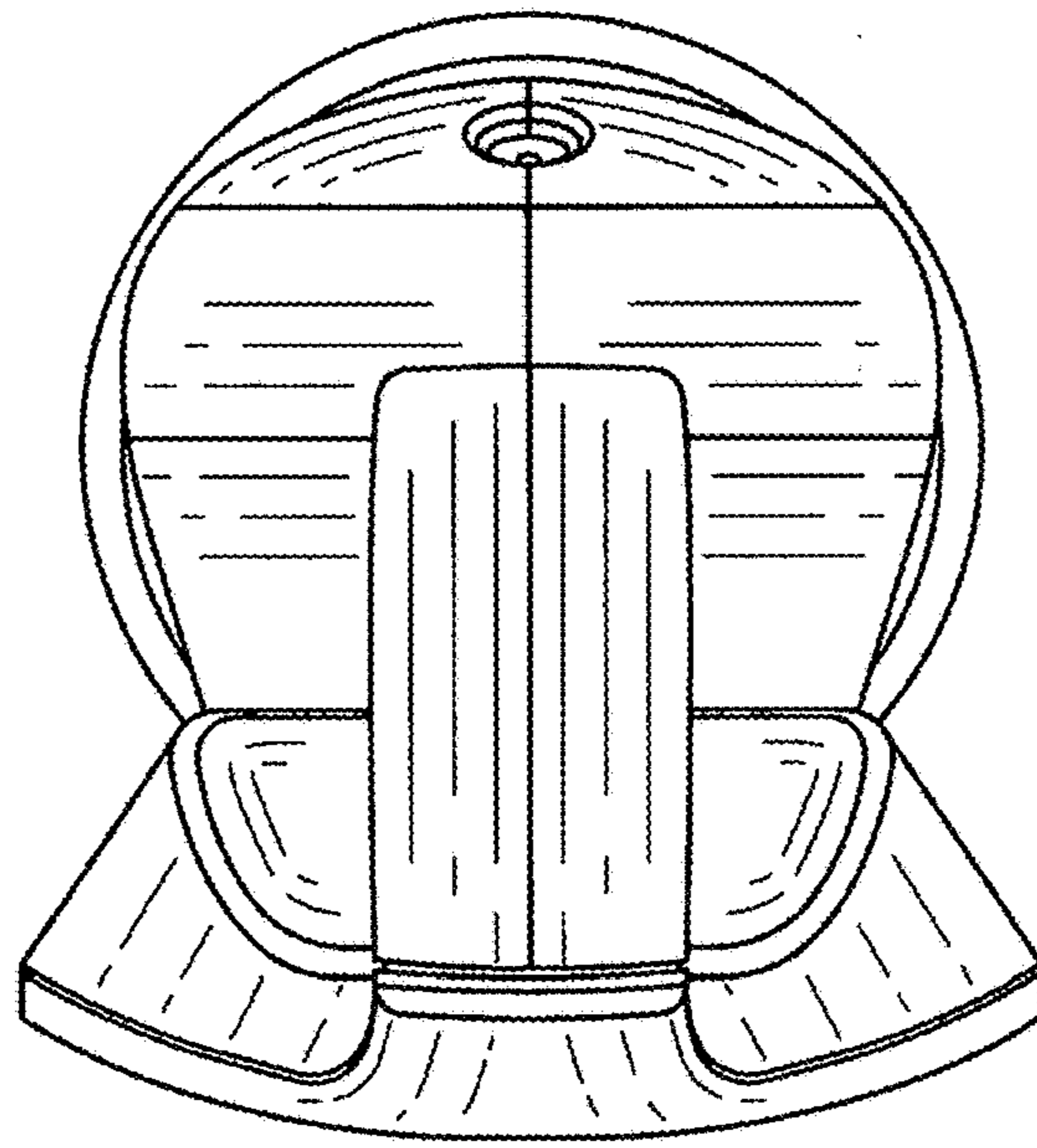


FIG.4

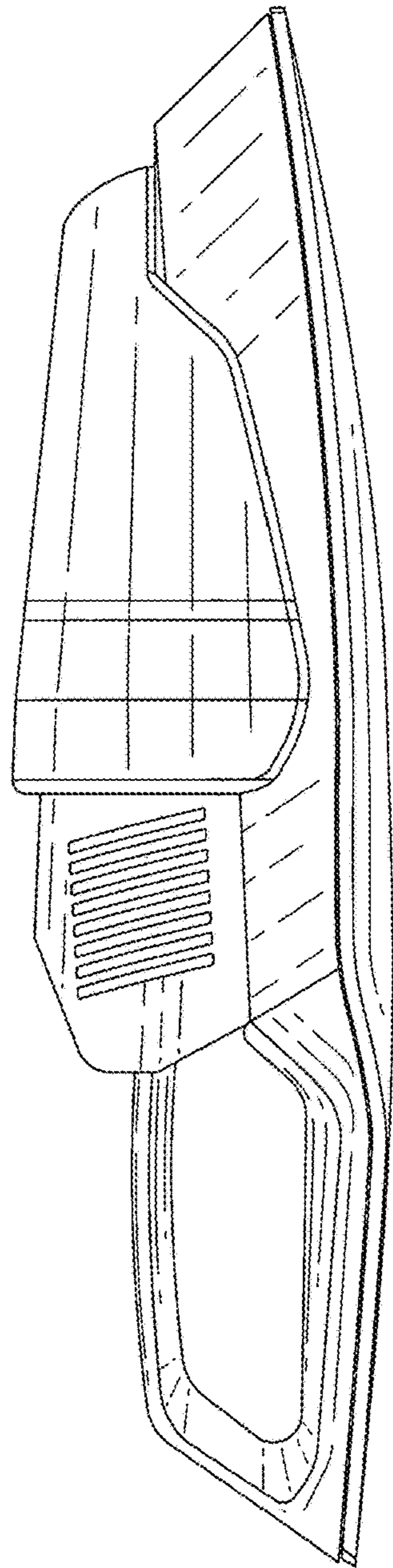


FIG.5

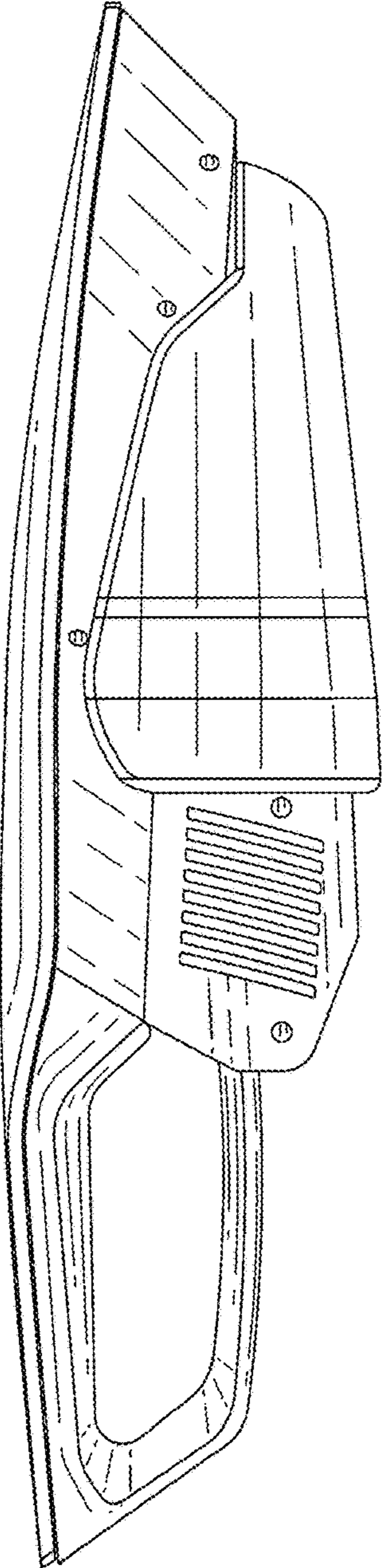


FIG.6

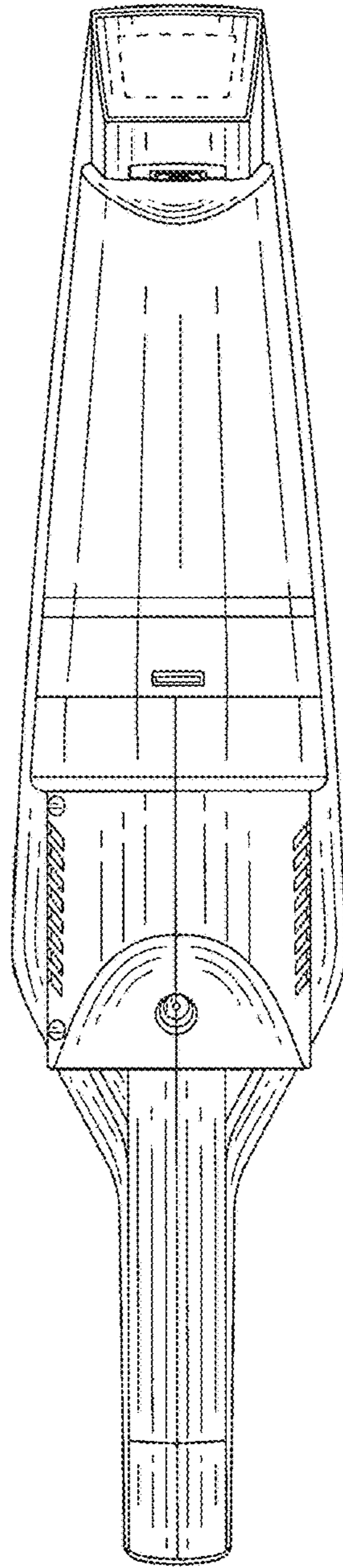


FIG. 7

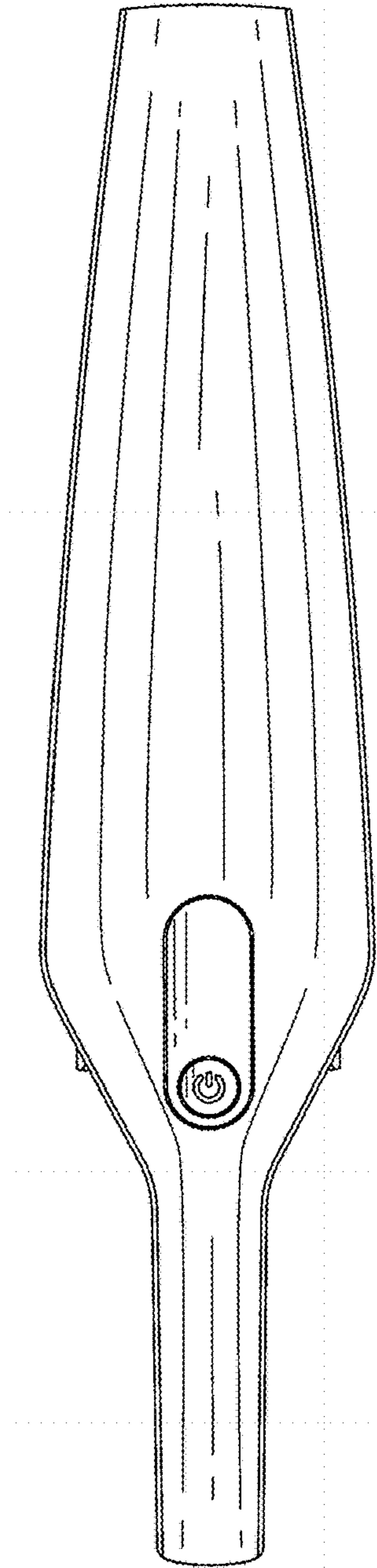


FIG. 8