



US00D762845S

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

(10) **Patent No.:** **US D762,845 S**
(45) **Date of Patent:** **** Aug. 2, 2016**

(54) **RESPIRATOR CARTRIDGE**
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4,562,837 A 1/1986 Schlobohm
D286,213 S 10/1986 Maryyanek
4,921,512 A 5/1990 Maryyanek
4,932,399 A 6/1990 Cappa
5,062,421 A * 11/1991 Burns A62B 18/025
128/205.27
5,086,768 A 2/1992 Niemeyer
5,148,803 A 9/1992 Schlobohm
D339,658 S 9/1993 Lahteenmaki

(Continued)

FOREIGN PATENT DOCUMENTS

(73) Assignee: **3M Innovative Properties Company**, St. Paul, MN (US)

AU 359122 12/2014
AU 359123 12/2014

(Continued)

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

OTHER PUBLICATIONS

(21) Appl. No.: **29/518,785**

Koken Particulate Respirators webpage, <http://www.koken-ltd.co.jp/english/particulaterespirators.htm>, obtained from internet on Jun. 3, 2013.

(22) Filed: **Feb. 27, 2015**

(51) **LOC (10) Cl.** **29-02**

(Continued)

(52) **U.S. Cl.**

USPC **D24/110.1**

(58) **Field of Classification Search**

USPC D24/110.1-110.4, 110.6, 127, 162;
D29/105, 107, 108, 110; D23/332,
D23/335, 355, 356, 366, 388, 412;
D12/195, 203
CPC A62B 18/00; A62B 18/02; A62B 18/025;
A62B 18/08; A62B 18/10; A62B 23/00;
A62B 23/02; A62B 23/025; A62B 23/06;
A41D 13/11; A61M 16/0622; A61M 16/0616;
A61M 16/0816; A61M 16/08; A61M 16/0633;
A61M 16/0666; A61M 2210/0618; A61M
16/0683

See application file for complete search history.

Primary Examiner — Barbara Fox
Assistant Examiner — Lilyana Bekic

(57)

CLAIM

The ornamental design for a respirator cartridge, as shown and described.

DESCRIPTION

FIG. 1 is a perspective view showing the new design for a respirator cartridge;
FIG. 2 is a top view thereof, the bottom being a mirror image thereof;
FIG. 3 is a front view thereof;
FIG. 4 is a right side view thereof
FIG. 5 is a rear view thereof; and,
FIG. 6 is a left side view thereof.

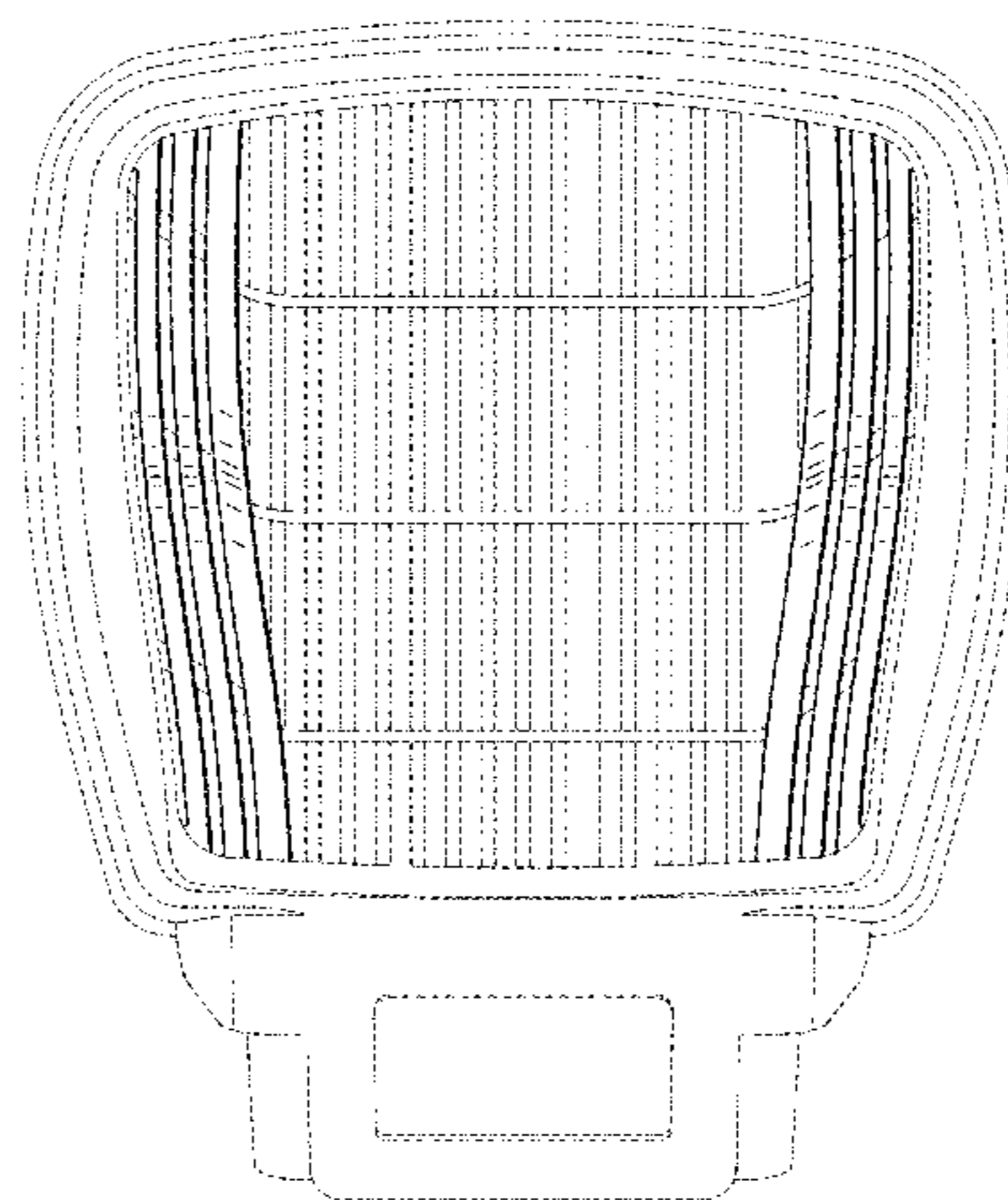
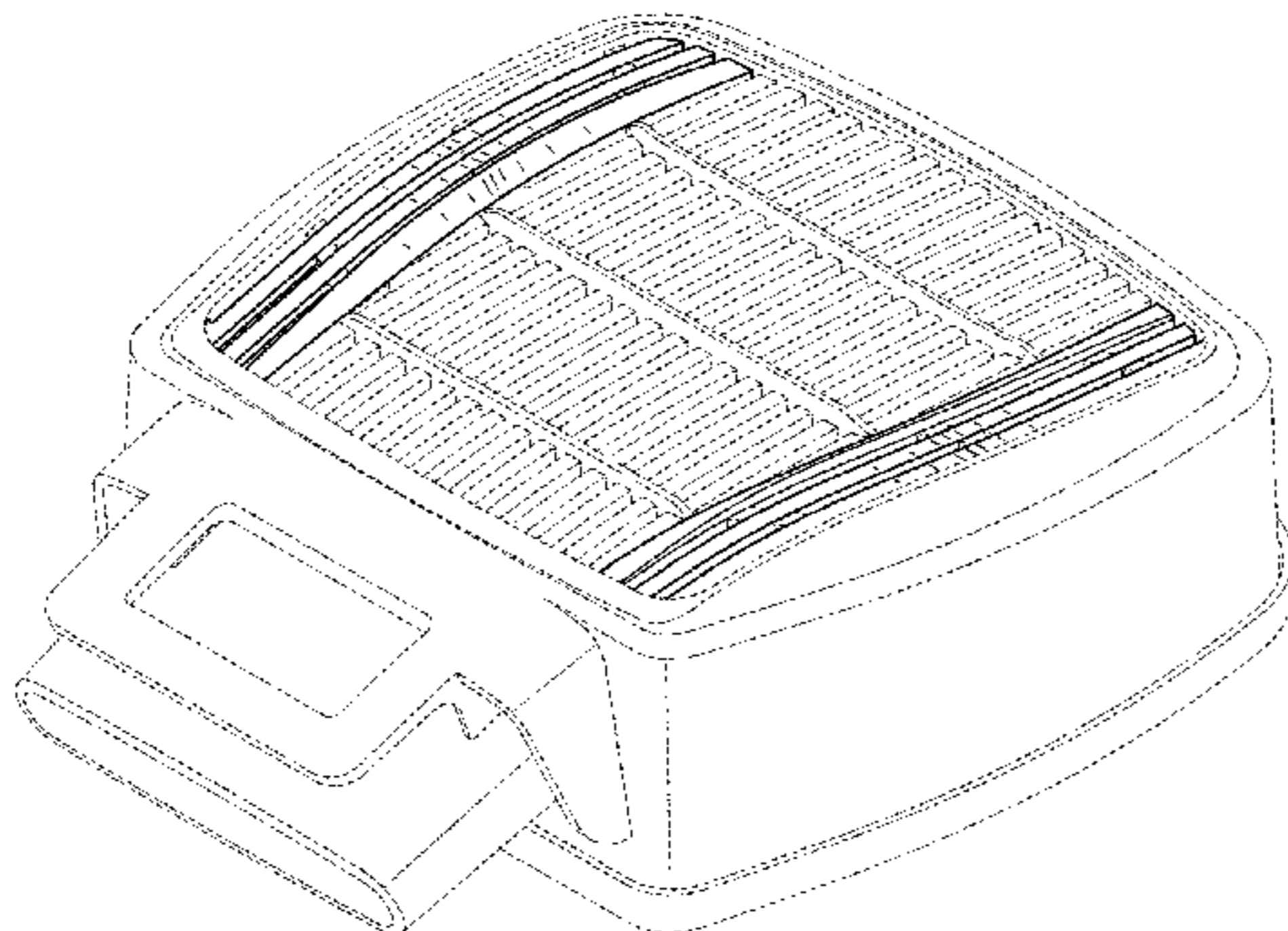
The broken lines in the drawings illustrate portions of the respirator cartridge that form no part of the claimed design.

1 Claim, 3 Drawing Sheets

(56) **References Cited**

U.S. PATENT DOCUMENTS

2,055,853 A 9/1936 Schwartz
2,062,834 A 12/1936 Schwartz
2,235,624 A 3/1941 Schwartz
2,787,333 A 4/1957 Boone



(56)

References Cited

OTHER PUBLICATIONS

FOREIGN PATENT DOCUMENTS

KR	10-0773460	11/2007
KR	300484303	3/2008
KR	300497704	7/2008
KR	300505691	9/2008
KR	300514863	12/2008
KR	300516185	1/2009
KR	300526158	4/2009
KR	300542031	10/2009
KR	300563142	6/2010
KR	300649412	6/2012
KR	300649413	6/2012
KR	300662871	10/2012
KR	300683043	3/2013
KR	300683052	3/2013
KR	300683069	3/2013
KR	300684091	3/2013
KR	300726258	1/2014
KR	300726303	1/2014
RU	63184	6/2007
WO	WO 03/090873	11/2003
WO	WO 2008/082415	7/2008

U.S. Appl. No. 29/491,529, filed May 22, 2014, entitled *Respirator Cartridge Having a Slot*.

U.S. Appl. No. 29/491,530, filed May 22, 2014, entitled *Respirator Cartridge Having a Hole Pattern*.

U.S. Appl. No. 29/491,531, filed May 22, 2014, entitled *Respirator Cartridge Body*.

U.S. Appl. No. 29/491,532, filed May 22, 2014, entitled *Respirator Cartridge*.

U.S. Appl. No. 29/491,533, filed May 22, 2014, entitled *Respirator Cartridge Having an Engagement Latch*.

U.S. Appl. No. 29/491,563, filed May 22, 2014, entitled *Respirator Filter Retainer Having Openings*.

U.S. Appl. No. 29/491,566, filed May 22, 2014, entitled *Respirator Filter Retainer*.

U.S. Appl. No. 29/491,568, filed May 22, 2014, entitled *Respirator Filter Retainer Having a Slot*.

U.S. Appl. No. 29/491,575, filed May 22, 2014, entitled *Respirator Filter Cover*.

* cited by examiner

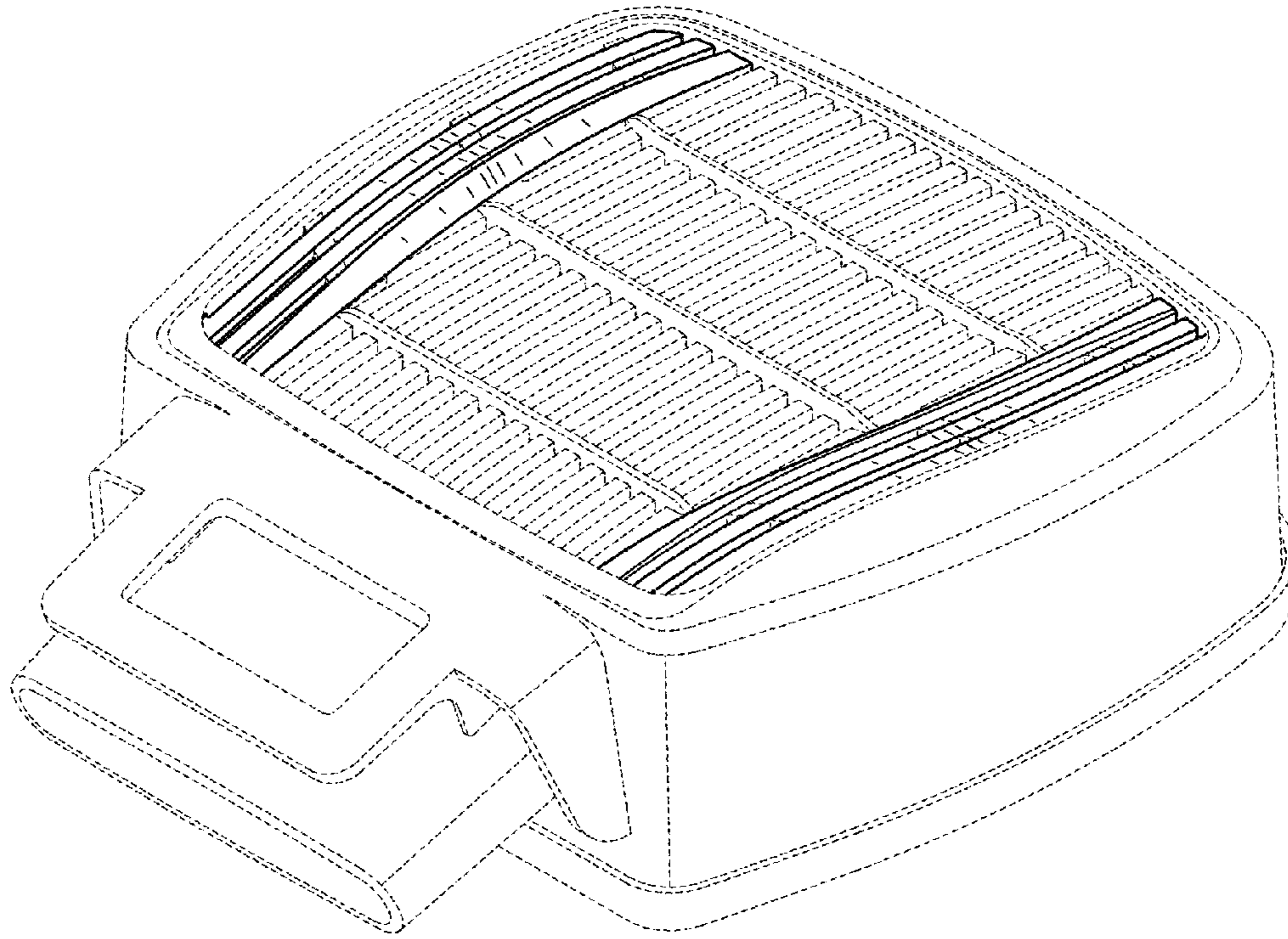


FIG. 1

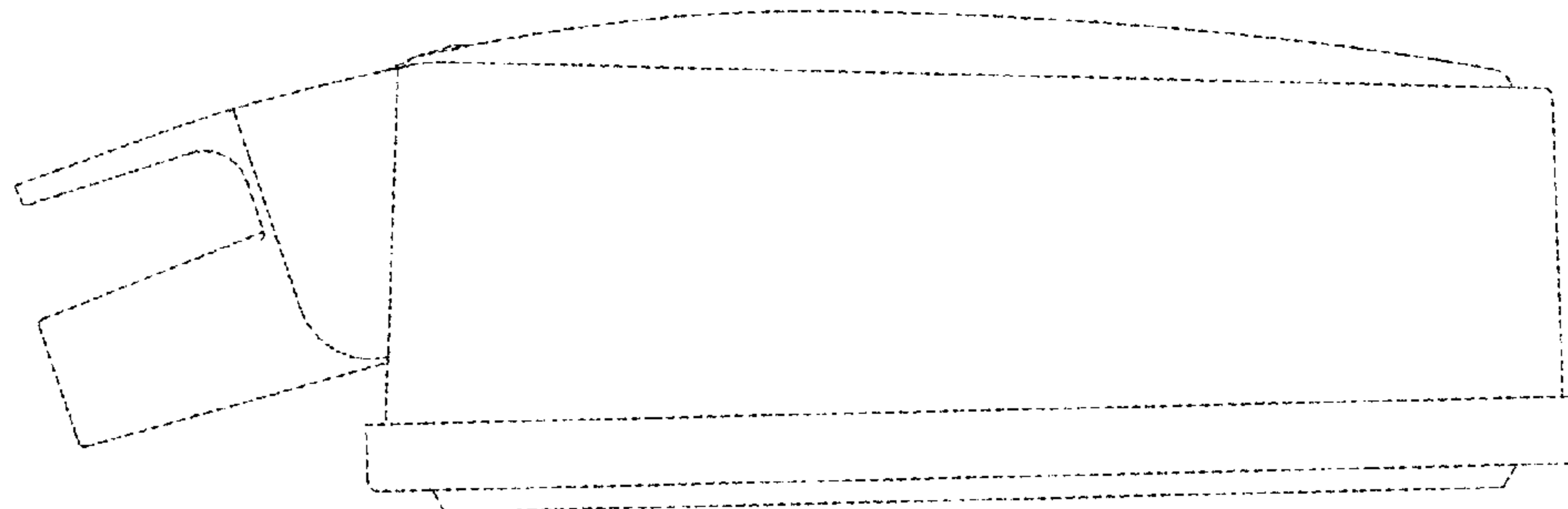


FIG. 2

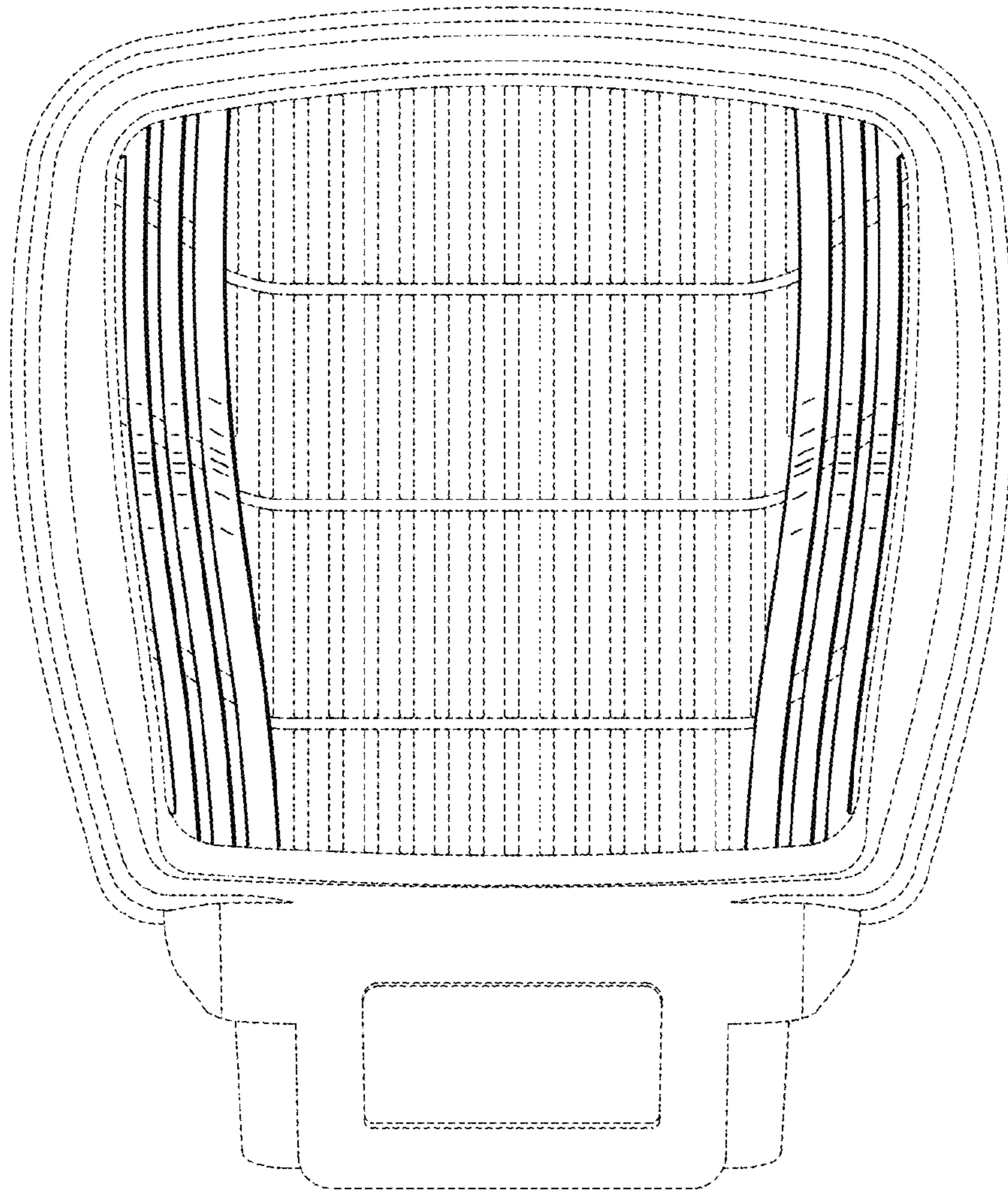


FIG. 3

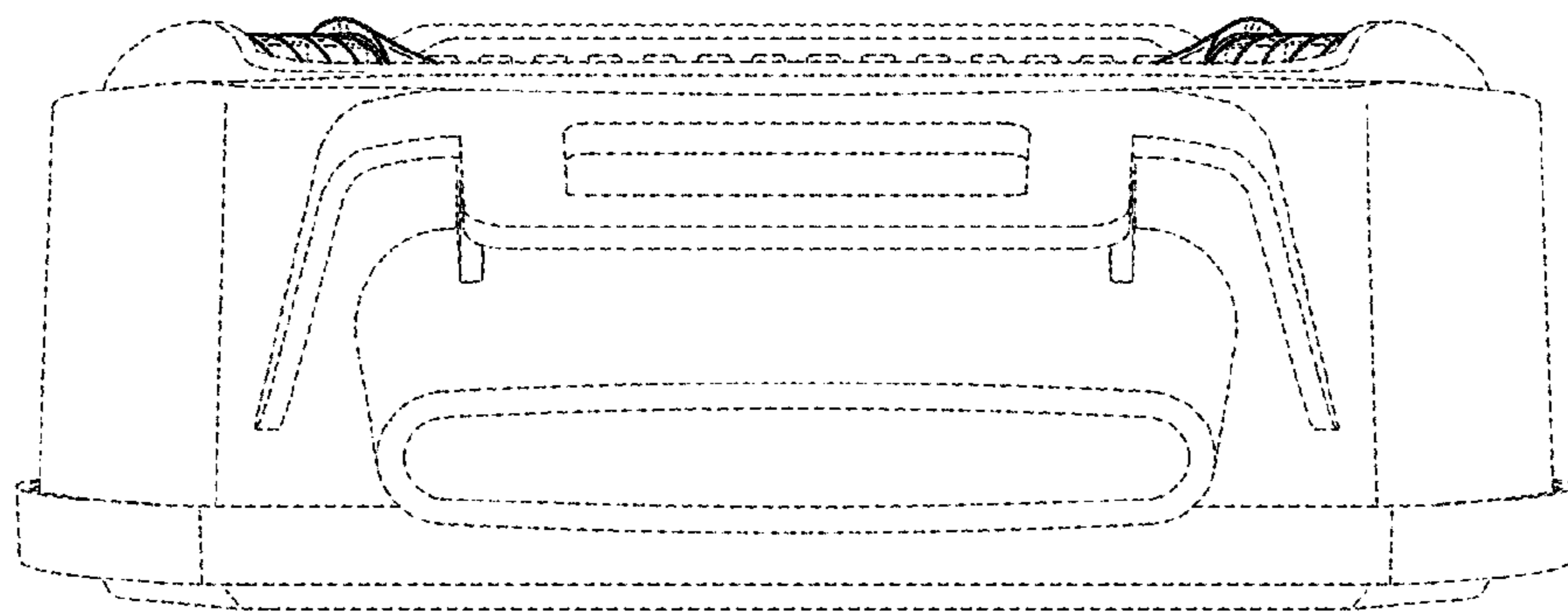


FIG. 4

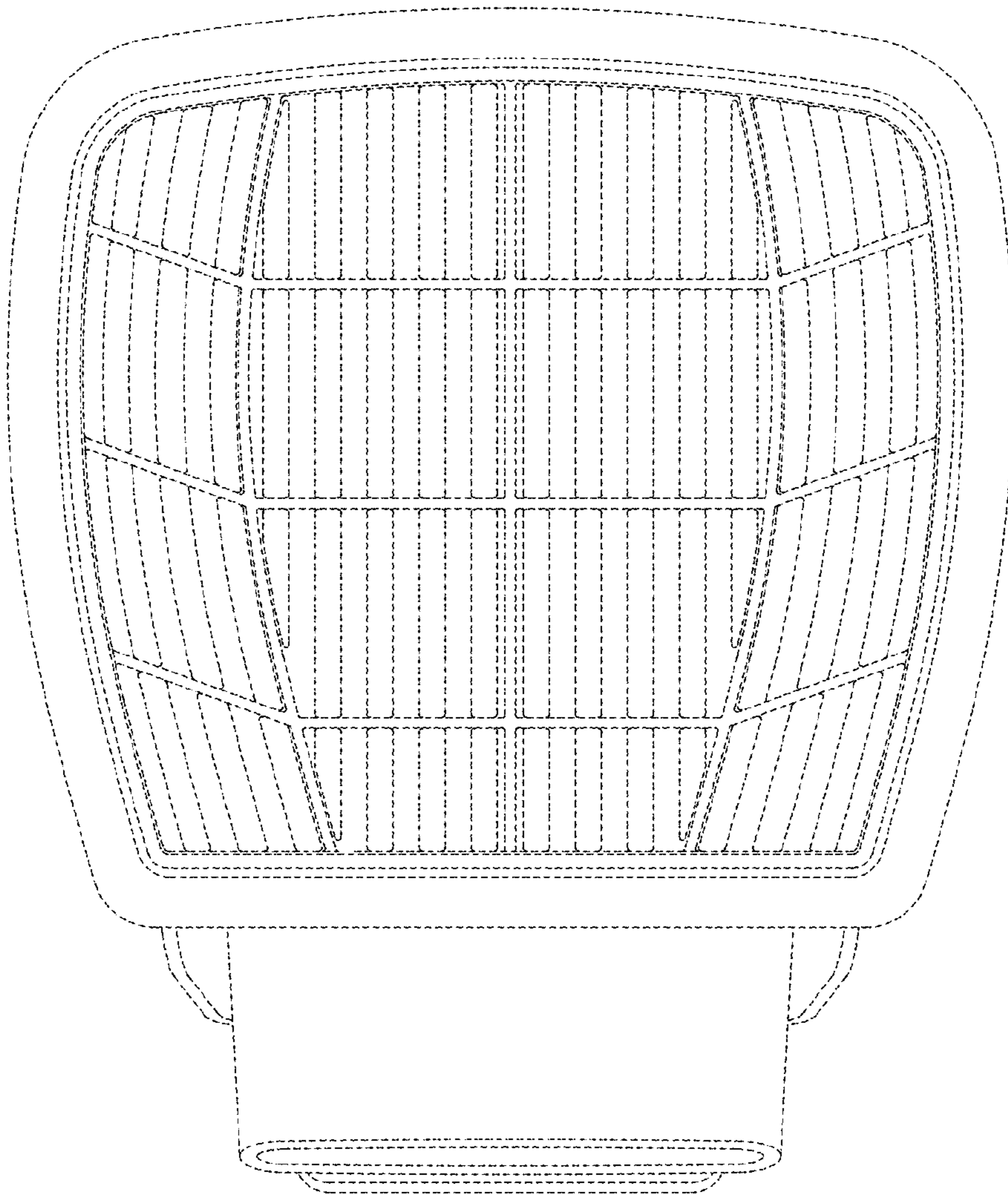


FIG. 5

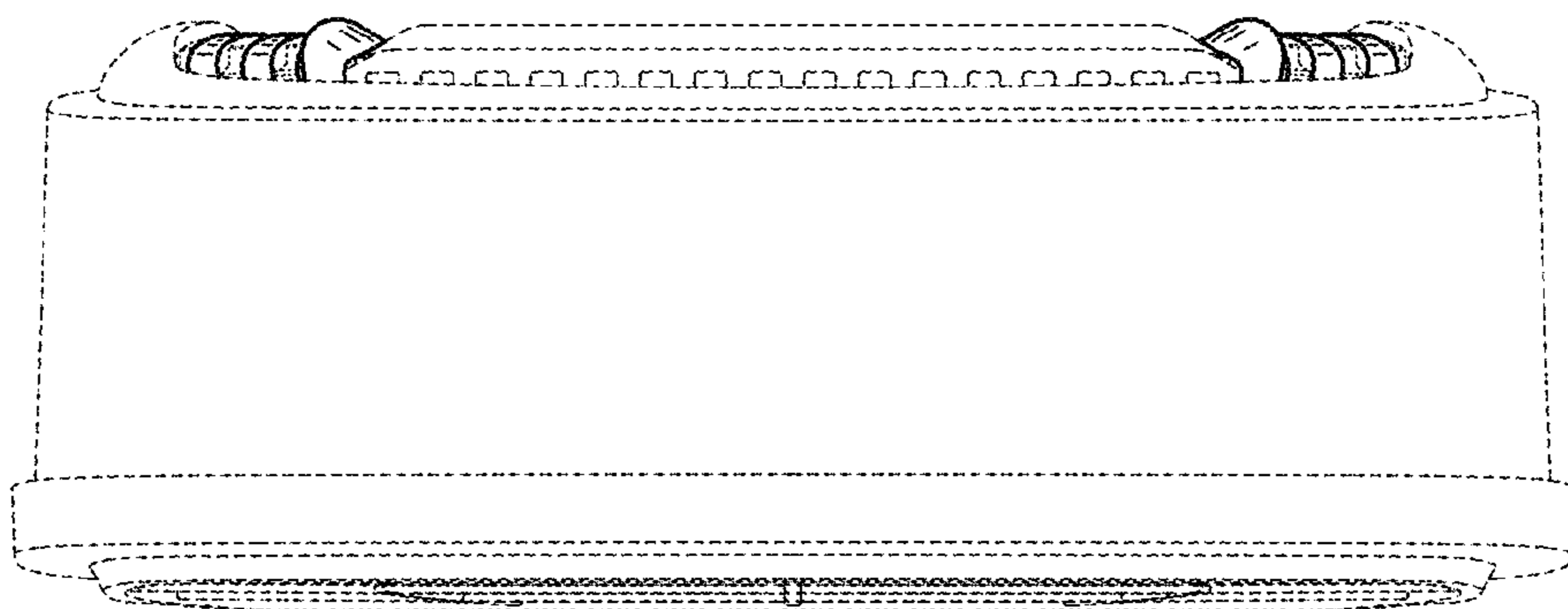


FIG. 6