



US00D652507S

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

(10) **Patent No.:** **US D652,507 S**  
(45) **Date of Patent:** **\*\* Jan. 17, 2012**

(54) **RESPIRATOR MASK BODY**

(75) Inventors: **William A. Mittelstadt**, Woodbury, MN (US); **Joan K. Henry**, Woodbury, MN (US); **Nathan A. Abel**, Minneapolis, MN (US); **David M. Castiglione**, Hudson, WI (US)

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

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

(21) Appl. No.: **29/357,295**

(22) Filed: **Mar. 10, 2010**

(51) **LOC (9) Cl.** ..... **29-02**

(52) **U.S. Cl.** ..... **D24/110.1**

(58) **Field of Classification Search** ..... D24/110, D24/110.1, 110.2, 110.3, 110.4, 110.5; D29/102, D29/105, 106, 108, 122; 128/206.15, 206.16, 128/206.17, 206.11, 207.12, 207.18, 200.24, 128/201.17, 204.23, 205.25

See application file for complete search history.

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

D271,246	S	*	11/1983	Matheson et al.	.....	D24/110.1
D286,213	S	*	10/1986	Maryanek et al.	.....	D24/110.1
5,062,421	A	*	11/1991	Burns et al.	.....	128/205.27
5,463,693	A	*	10/1995	Birli et al.	.....	381/75
D382,341	S	*	8/1997	Freund	.....	D24/110.1
D421,299	S	*	2/2000	Brostrom et al.	.....	D24/110.1
D440,301	S		4/2001	Fecteau et al.		
D467,656	S		12/2002	Mittelstadt et al.		
D471,627	S		3/2003	Mittelstadt et al.		
D473,937	S		4/2003	Fecteau et al.		
D541,413	S	*	4/2007	Jarvinen et al.	.....	D24/110.1
7,320,722	B2	*	1/2008	Mittelstadt et al.	.....	55/505

D597,200	S		7/2009	Grimsley		
D602,154	S	*	10/2009	Ono et al.	.....	D24/110.2
7,650,884	B2	*	1/2010	Flannigan et al.	.....	128/206.12
D609,884	S	*	2/2010	Cho	.....	D2/891
D613,850	S	*	4/2010	Holmquist-Brown et al.	.....	D24/110.1

**FOREIGN PATENT DOCUMENTS**

EM	96961-001	2/2004
GB	2073735	8/1998

**OTHER PUBLICATIONS**

3M Dual-Airline Respirators; 9A-47429 and 9A-31321; p. 322 Safety & Industrial Supplies Jan. 1999 General Catalog by Lab Safety Supply.\*

\* cited by examiner

*Primary Examiner* — Ian Simmons

*Assistant Examiner* — Christopher Lee

(74) *Attorney, Agent, or Firm* — Karl G. Hanson

(57) **CLAIM**

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

**DESCRIPTION**

FIG. 1 is a perspective view, showing the new design for a respirator mask body;

FIG. 2 is a front view thereof;

FIG. 3 is a rear view thereof;

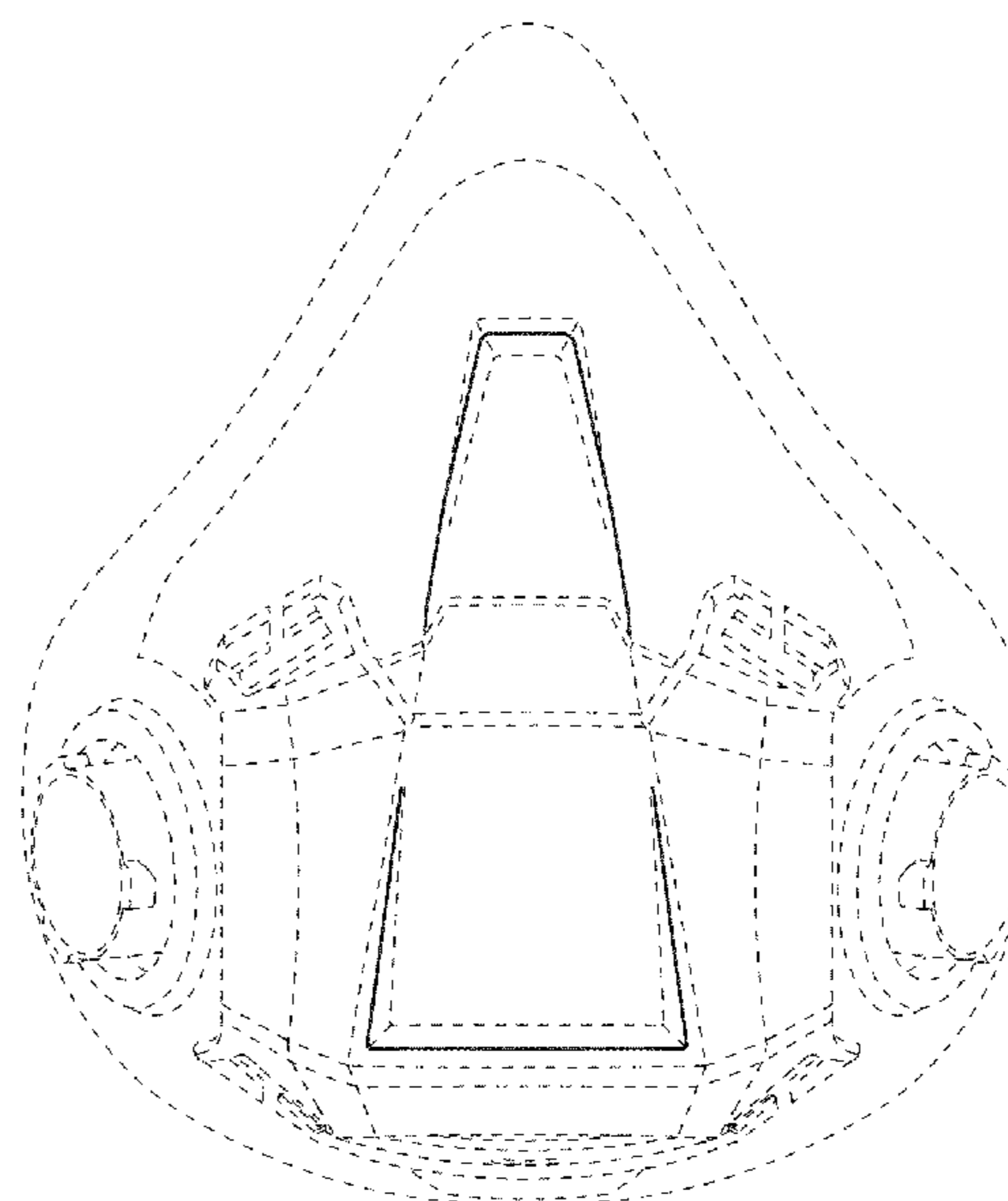
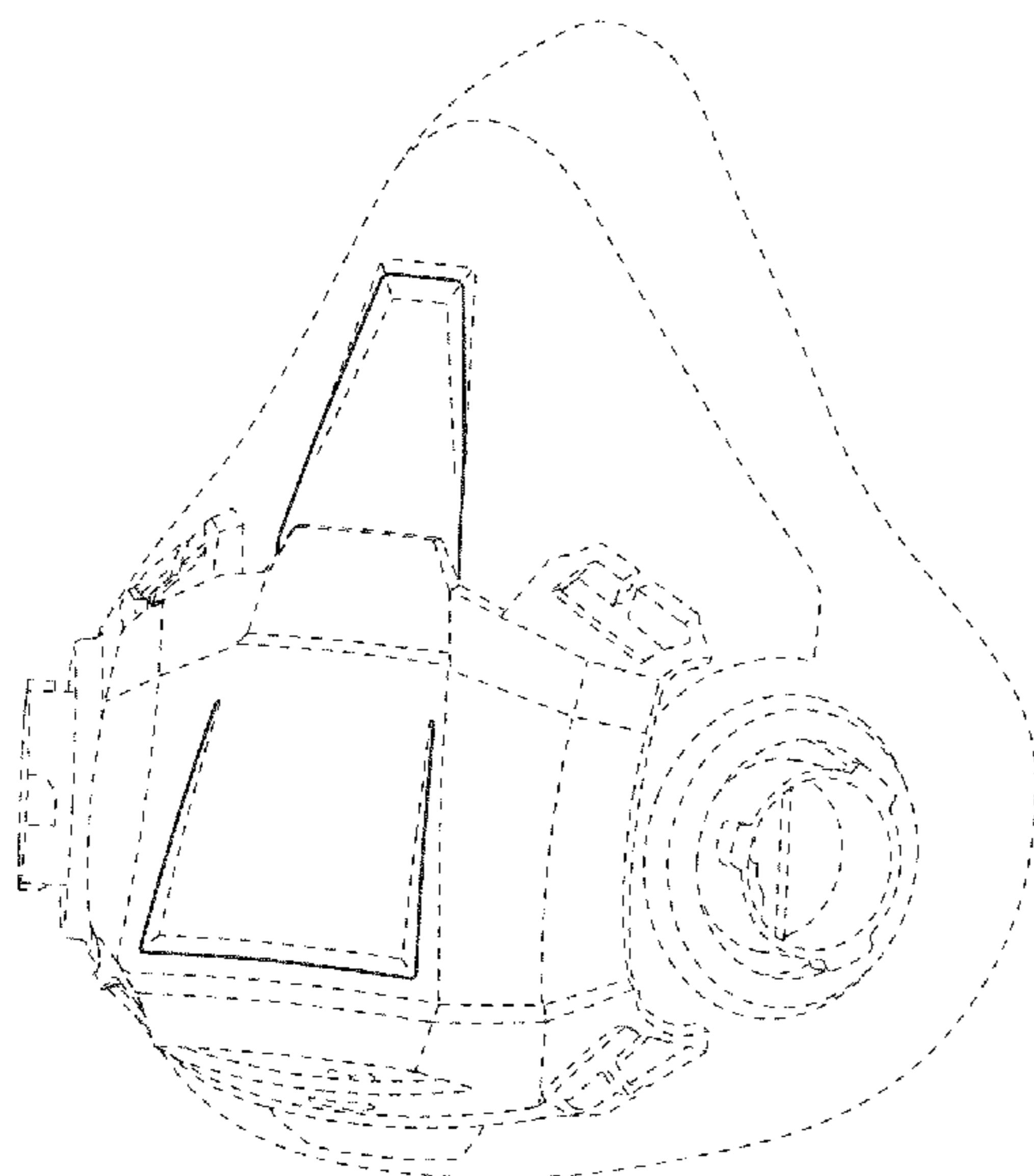
FIG. 4 is a right side view, the left side view being a mirror image thereof;

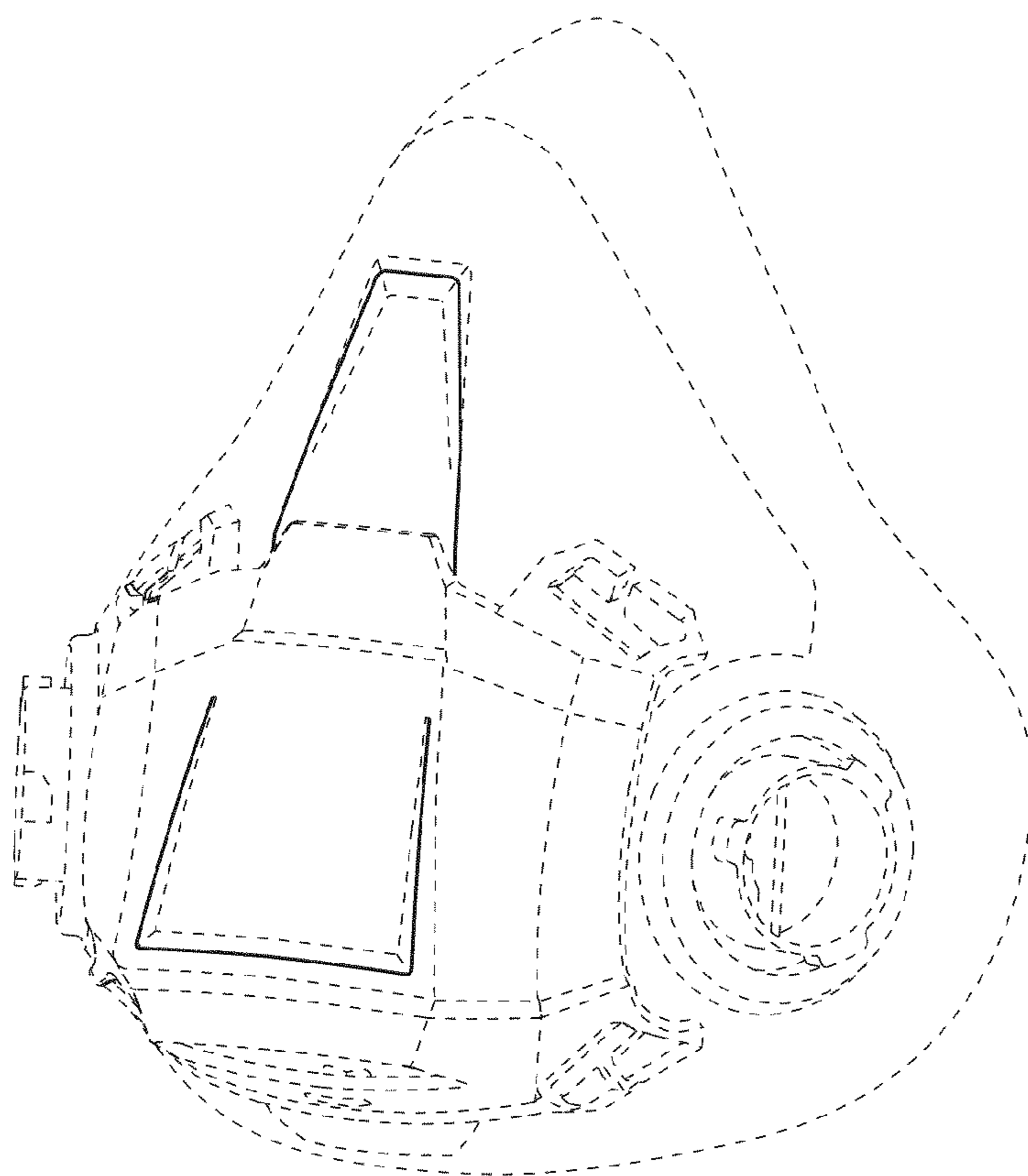
FIG. 5 is a top view thereof; and,

FIG. 6 is a bottom view thereof.

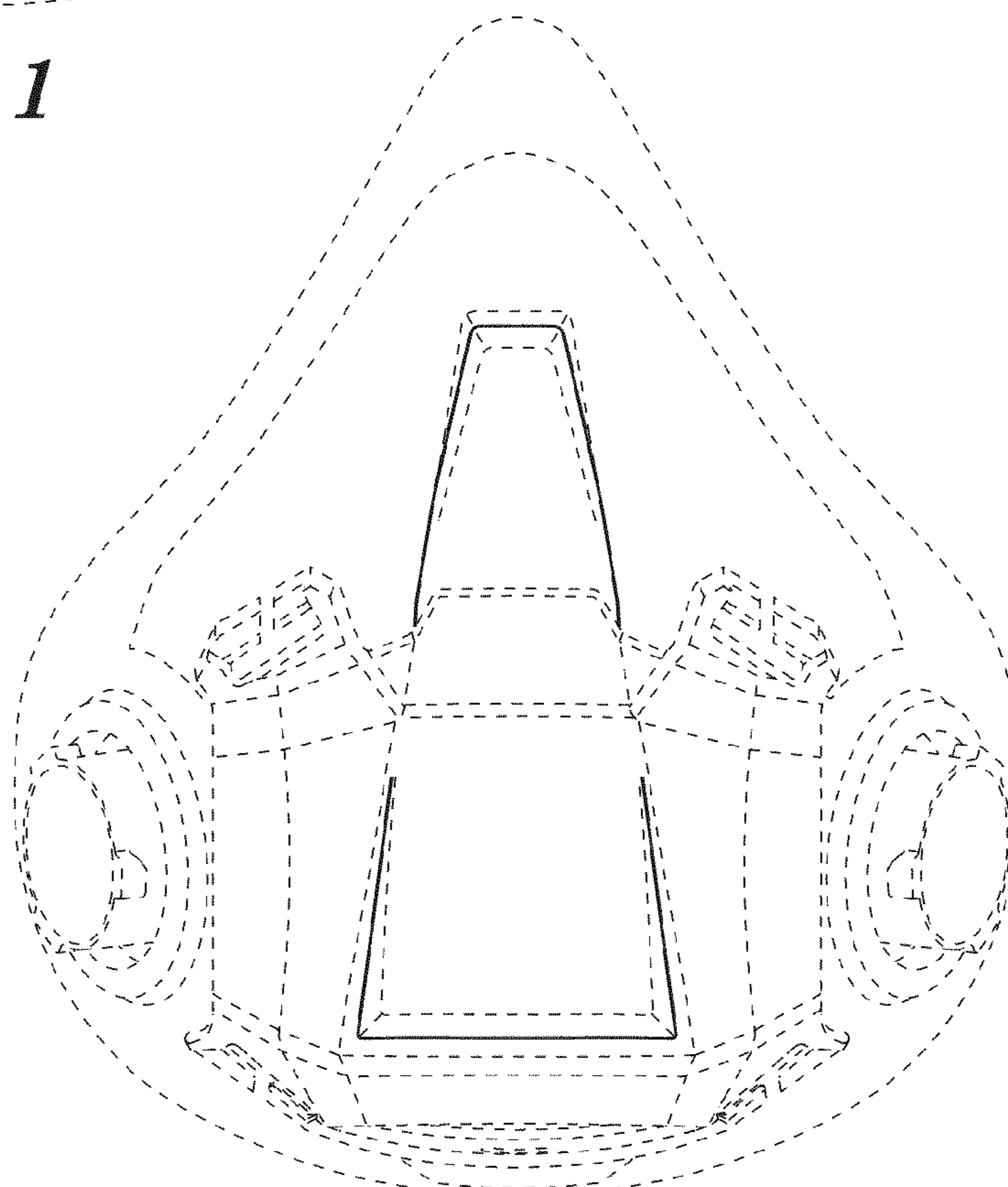
The broken lines illustrate environmental structure of the respiratory mask body, which forms no part of the claimed design.

**1 Claim, 3 Drawing Sheets**

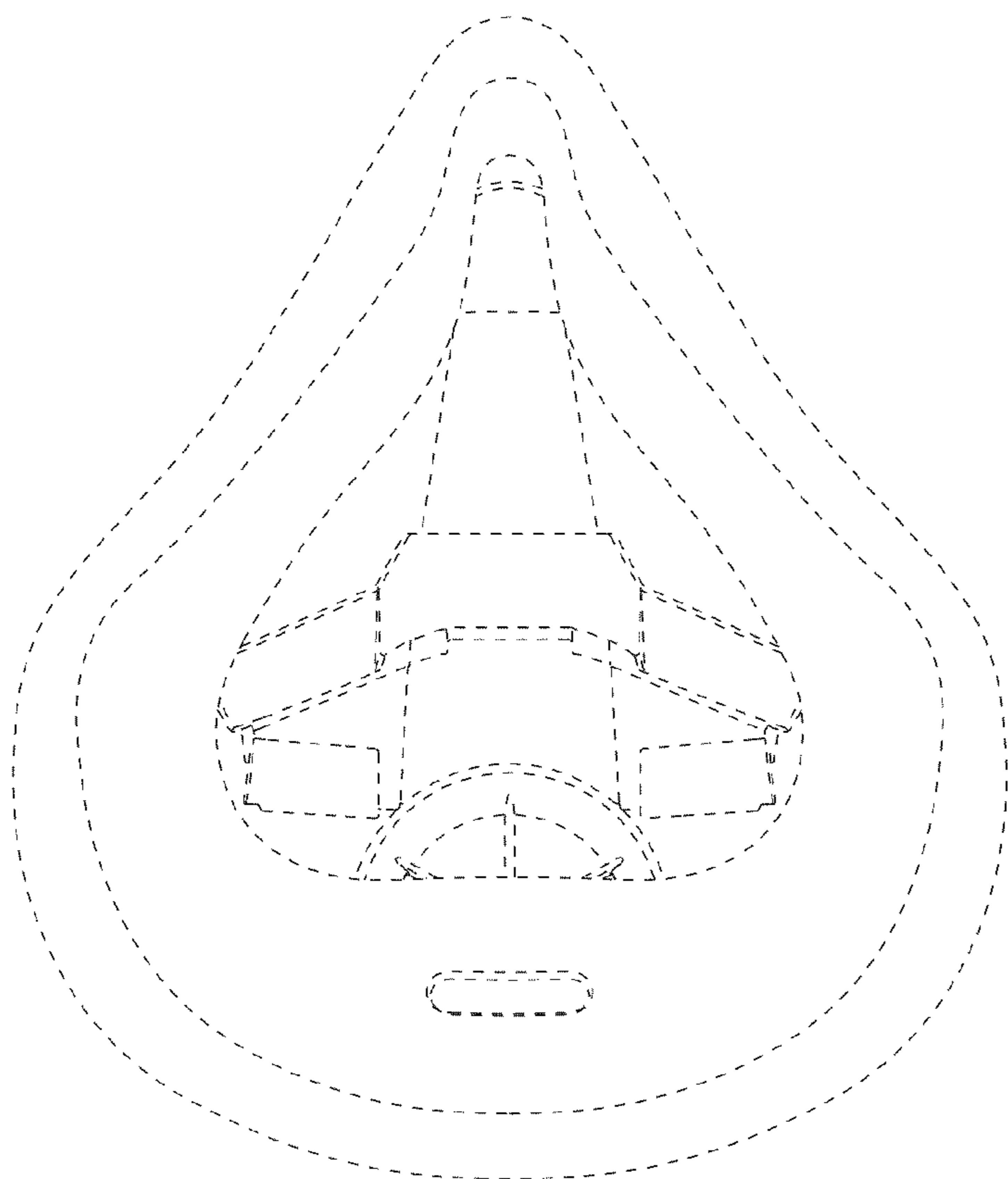




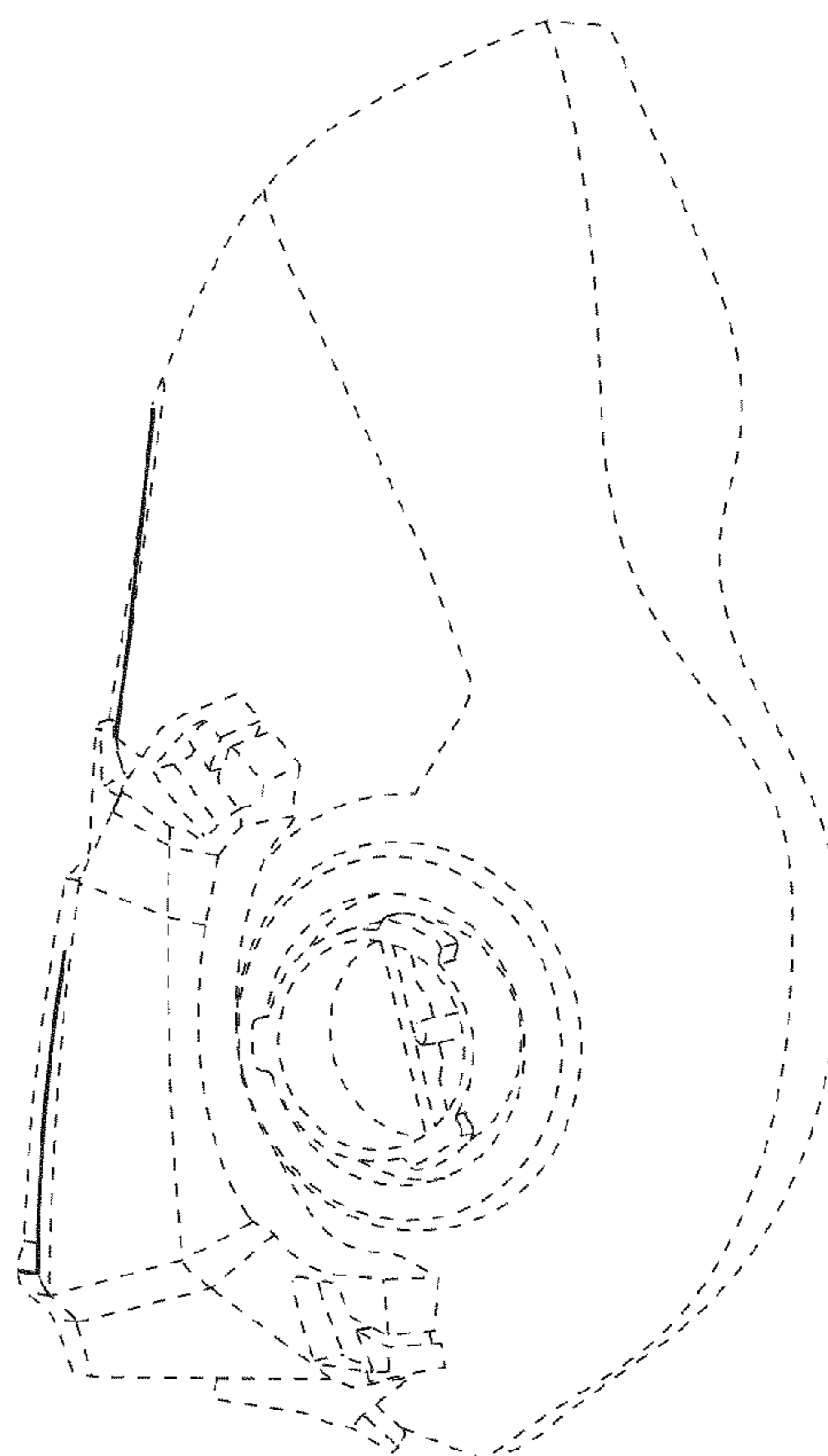
**FIG. 1**



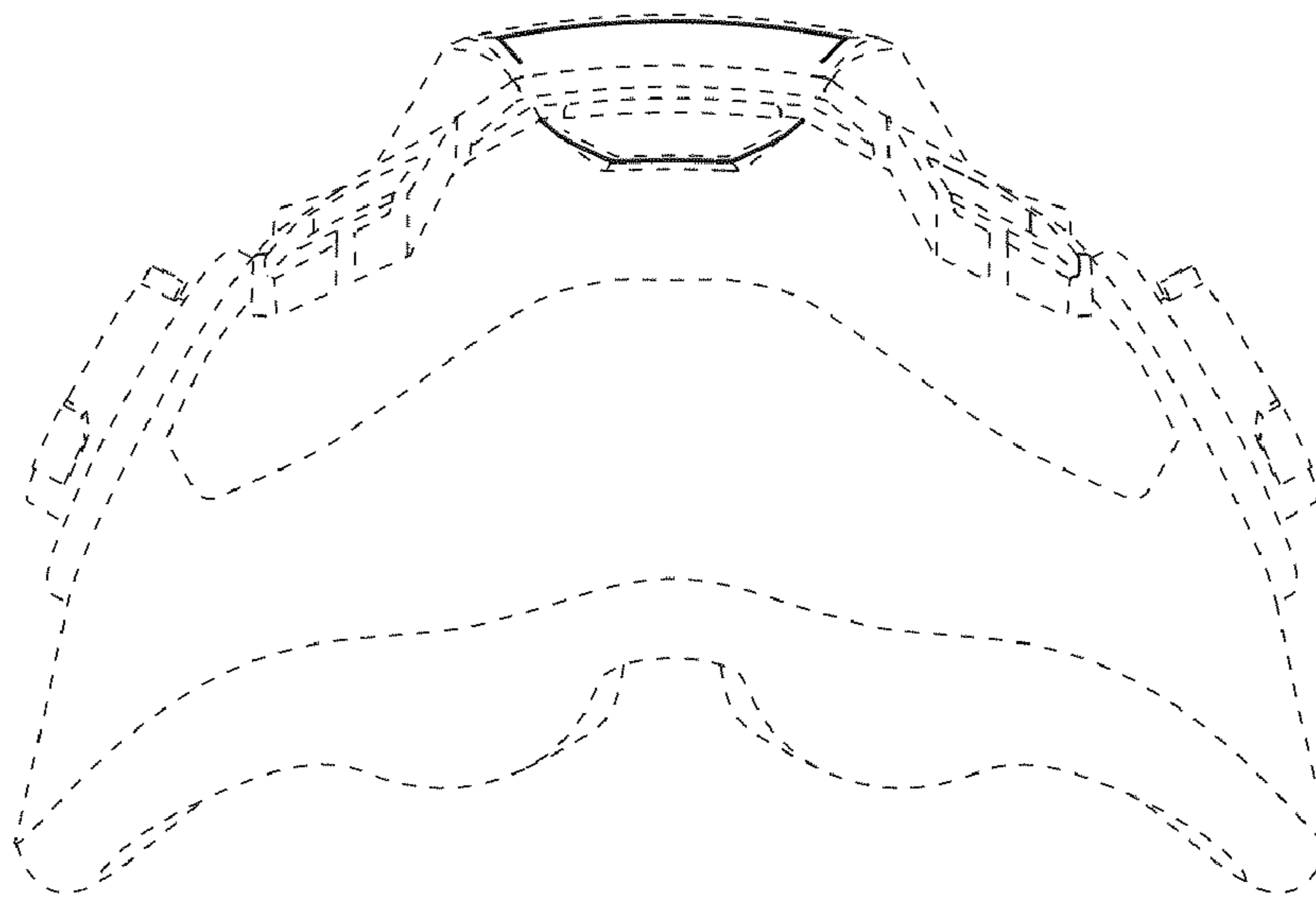
**FIG. 2**



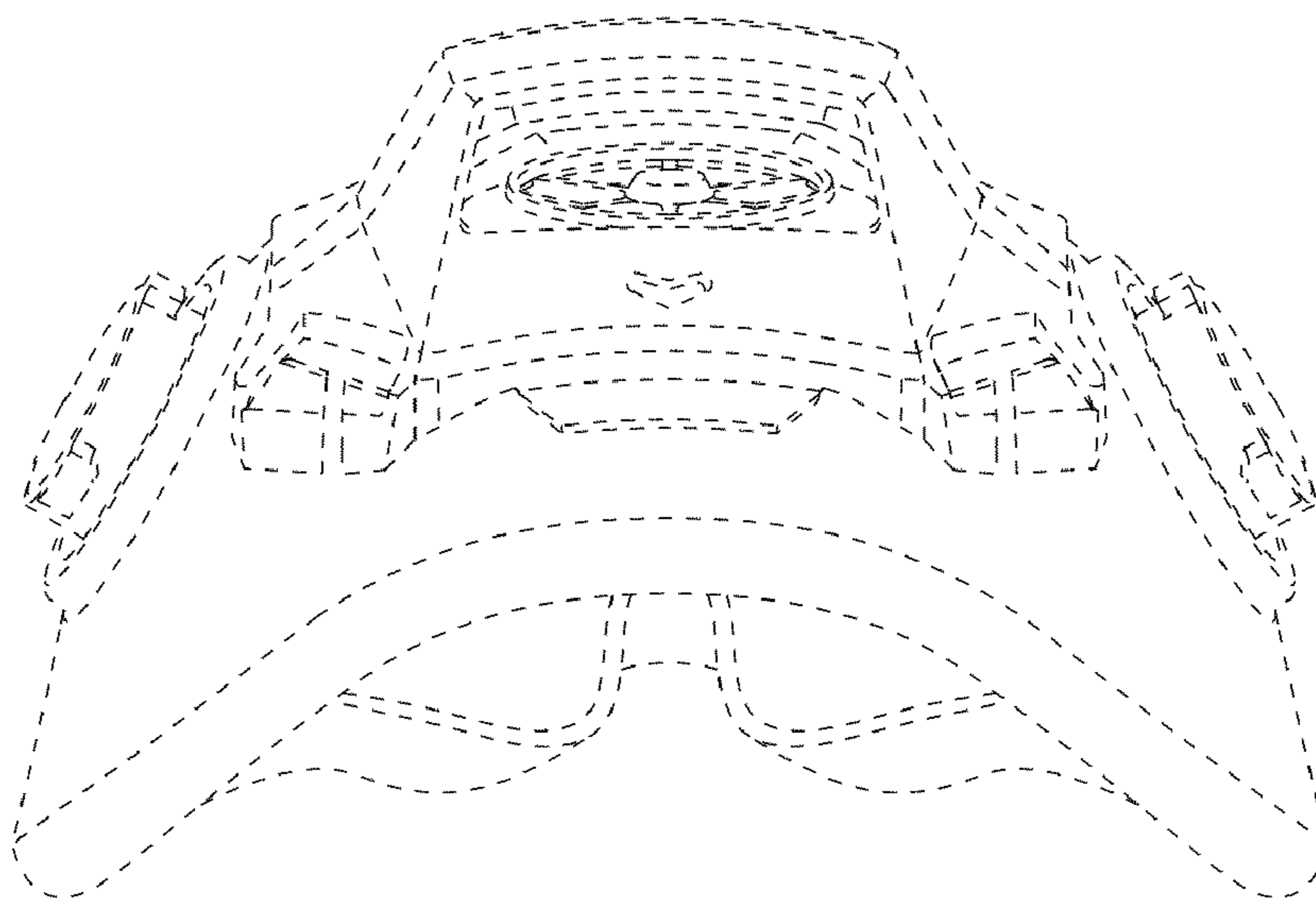
**FIG. 3**



**FIG. 4**



**FIG. 5**



**FIG. 6**