



US00D944461S

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

(10) **Patent No.:** **US D944,461 S**

(45) **Date of Patent:** **\*\* Feb. 22, 2022**

(54) **MANDIBLE SHIELD**

(71) Applicant: **Gentex Corporation**, Simpson, PA (US)

(72) Inventors: **Emily Hancock**, Arlington, MA (US);  
**Nathan Winters**, Merrimack, NH (US)

(73) Assignee: **GENTEX CORPORATION**, Simpson, PA (US)

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

(21) Appl. No.: **29/677,242**

(22) Filed: **Jan. 18, 2019**

(51) **LOC (13) Cl.** ..... **02-99**

(52) **U.S. Cl.**  
USPC ..... **D29/122**

(58) **Field of Classification Search**  
USPC ..... D29/102-110, 122; D2/865  
CPC ..... A42B 3/00; A42B 3/04; A42B 3/0406;  
A42B 3/08; A42B 1/0181; A42B 3/085;  
A42B 3/16; A42B 3/18; A42B 3/185;  
A42B 3/20; A42B 3/205; A42B 3/22;  
A42B 3/221; A42B 3/222; A42B 3/223;  
A42B 3/225; A42B 3/228; A41D  
13/1184; F41H 1/04; F41H 1/06; F41H  
1/08

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

2,867,811 A	1/1959	Jones
3,118,443 A	1/1964	Dykinga
3,216,023 A	11/1965	Morgan
D204,731 S	5/1966	Dunning
3,478,365 A	11/1969	Varga
D229,127 S	11/1973	Franklin
3,886,596 A	6/1975	Frankln et al.
D243,127 S	1/1977	Farquharson
D243,128 S	1/1977	Morgan

4,042,974 A 8/1977 Morgan et al.  
D246,012 S 10/1977 Minette  
5,384,914 A 1/1995 Caveness et al.  
(Continued)

FOREIGN PATENT DOCUMENTS

WO 2015/156864 A2 10/2015

OTHER PUBLICATIONS

OPS-CORE 2012 Product Catalog; www.ops-core.com; Boston, MA, US; pp. 1-23; disclosed on or before Dec. 31, 2012.

(Continued)

*Primary Examiner* — Kimberly Barnes

(74) *Attorney, Agent, or Firm* — Morgan, Lewis & Bockius LLP

(57) **CLAIM**

The ornamental design for a mandible shield, as shown and described.

**DESCRIPTION**

FIG. 1 is a front perspective view of a mandible shield showing our new design.

FIG. 2 is a rear perspective view thereof;

FIG. 3 is a front elevational view thereof;

FIG. 4 is a rear elevational view thereof;

FIG. 5 is a right-side elevational view thereof;

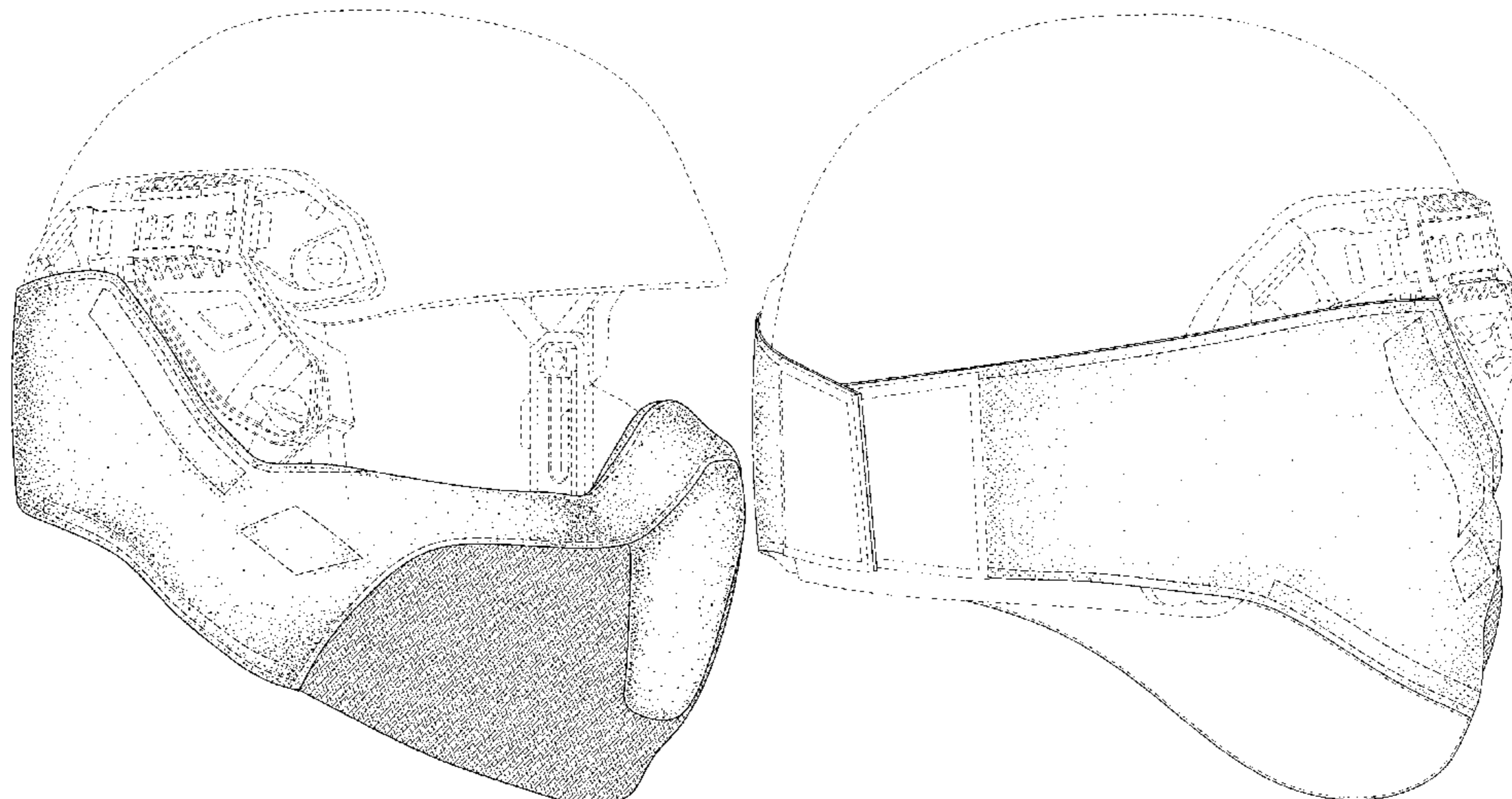
FIG. 6 is a left-side elevational view thereof;

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

FIG. 8 is a bottom plan view thereof.

The broken lines depicting a helmet and hardware represent environmental subject matter that forms no part of the claimed design. The broken lines immediately adjacent the shaded areas represent the bounds of the claimed design while all other broken lines on the article itself depict portions of the mandible shield that form no part of the claimed design, including the stitching lines which have a longer dash than the other broken lines.

**1 Claim, 8 Drawing Sheets**



(56)

References Cited

U.S. PATENT DOCUMENTS

D369,442 S \* 4/1996 Jones ..... D2/500  
 D377,241 S \* 1/1997 Kenner ..... D24/190  
 6,289,521 B1 9/2001 Ikeda  
 6,338,340 B1 \* 1/2002 Finch ..... A62B 18/084  
 128/205.27  
 D471,675 S 3/2003 Ikeda  
 D526,746 S 8/2006 Wong  
 D535,061 S 1/2007 Evans et al.  
 D548,893 S 8/2007 Hedge et al.  
 D556,386 S 11/2007 Lee  
 D560,315 S 1/2008 Wong  
 D601,308 S 9/2009 Broersma  
 D606,707 S 12/2009 Schiebl  
 D620,205 S 7/2010 Schiebl  
 D632,439 S 2/2011 Lebel et al.  
 D632,440 S 2/2011 Lebel et al.  
 D638,168 S 5/2011 Lebel  
 D638,172 S 5/2011 Lebel et al.  
 D657,497 S 4/2012 Schiebl  
 D672,683 S 12/2012 Klotz et al.  
 D674,560 S 1/2013 Klotz et al.  
 D701,002 S 3/2014 Lebel et al.  
 D703,874 S 4/2014 Lebel  
 D709,653 S \* 7/2014 Lebel ..... D29/122  
 D711,051 S 8/2014 Noordzij et al.  
 D715,005 S 10/2014 Schiebl  
 D715,999 S 10/2014 Cram  
 D724,791 S 3/2015 Cram  
 D734,559 S 7/2015 Noordzij et al.  
 D740,496 S 10/2015 Noordzij et al.  
 D748,347 S 1/2016 Noordzij et al.  
 D757,155 S 5/2016 Noordzij et al.

9,414,633 B2 \* 8/2016 Giroux Bernier ..... A42B 3/221  
 9,433,252 B2 \* 9/2016 Lebel ..... A42B 3/326  
 D781,506 S 3/2017 Lebel  
 9,631,899 B2 4/2017 Lebel et al.  
 D795,502 S 8/2017 Lebel  
 D819,194 S \* 5/2018 Wenger ..... D24/110.1  
 D822,289 S \* 7/2018 O'Connell ..... D29/122  
 D827,938 S \* 9/2018 Lebel ..... D29/122  
 D840,113 S \* 2/2019 O'Connell ..... D29/122  
 D844,301 S \* 4/2019 Greenblat ..... D2/865  
 D850,014 S \* 5/2019 O'Connell ..... D29/122  
 D850,760 S \* 6/2019 Greenblat ..... D2/865  
 10,371,487 B2 \* 8/2019 Hall ..... A42B 3/04  
 D870,390 S \* 12/2019 Mao ..... D29/108  
 D872,943 S \* 1/2020 Hall ..... D29/122  
 10,575,583 B2 \* 3/2020 Stephens ..... A42B 3/288  
 10,765,165 B2 \* 9/2020 O'Connell ..... A42B 3/0406  
 2004/0003452 A1 1/2004 Schiebl  
 2007/0124842 A1 6/2007 Nascimento et al.  
 2007/0250993 A1 11/2007 Schimpf  
 2009/0107514 A1 4/2009 Winningham  
 2009/0144872 A1 6/2009 Lebel et al.  
 2010/0064405 A1 3/2010 McGovern  
 2012/0204331 A1 8/2012 Lebel et al.  
 2012/0317706 A1 12/2012 Lebel et al.  
 2014/0202469 A1 \* 7/2014 Smaller ..... A62B 23/025  
 128/863  
 2018/0092426 A1 \* 4/2018 Hall ..... A42B 3/205

OTHER PUBLICATIONS

OPS-CORE 2013 Product Catalog; www.ops-core.com; Boston, MA, US; pp. 1-23; first disclosed on Jan. 14, 2013.

\* cited by examiner

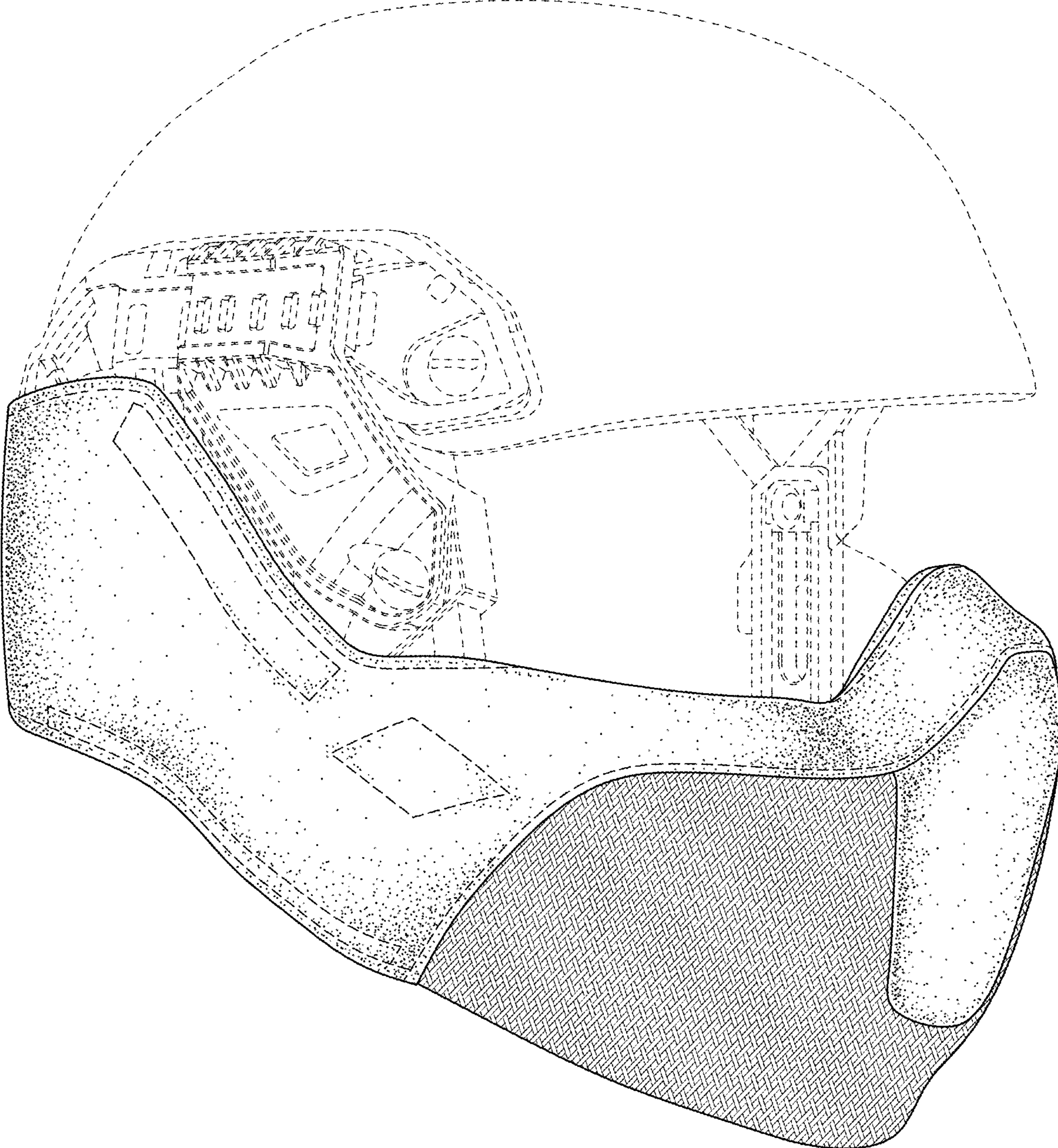


FIG. 1

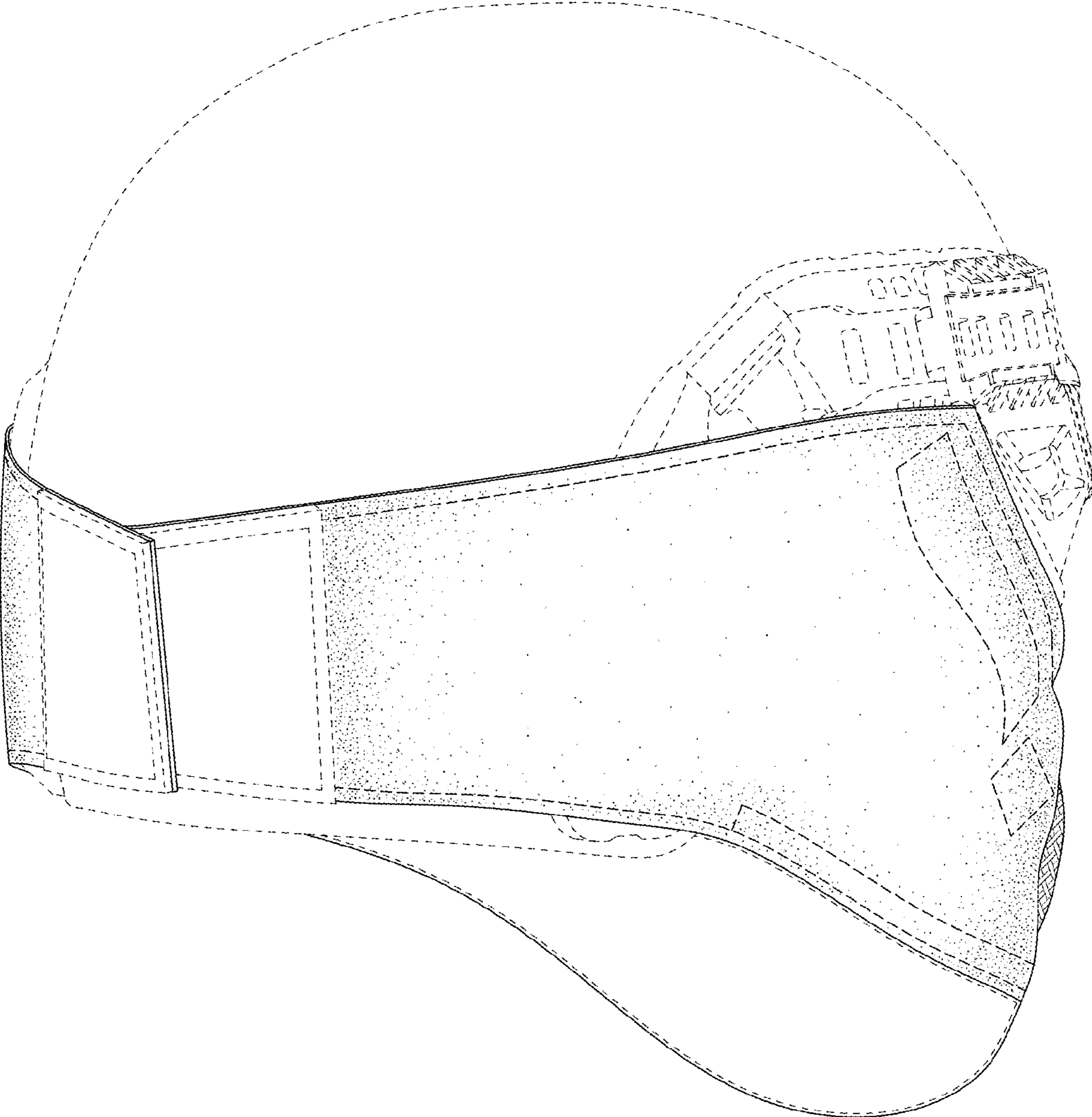


FIG. 2

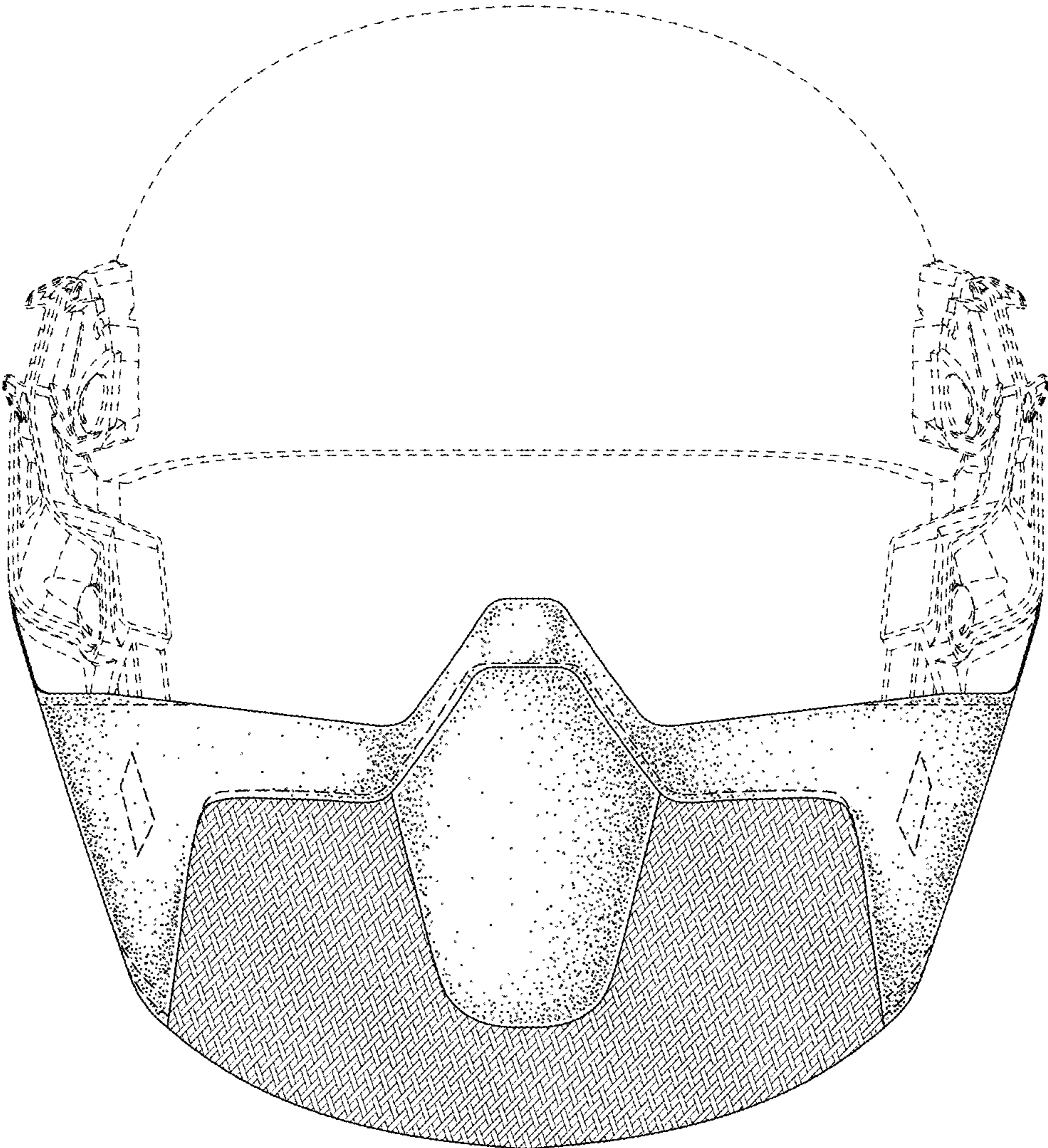


FIG. 3

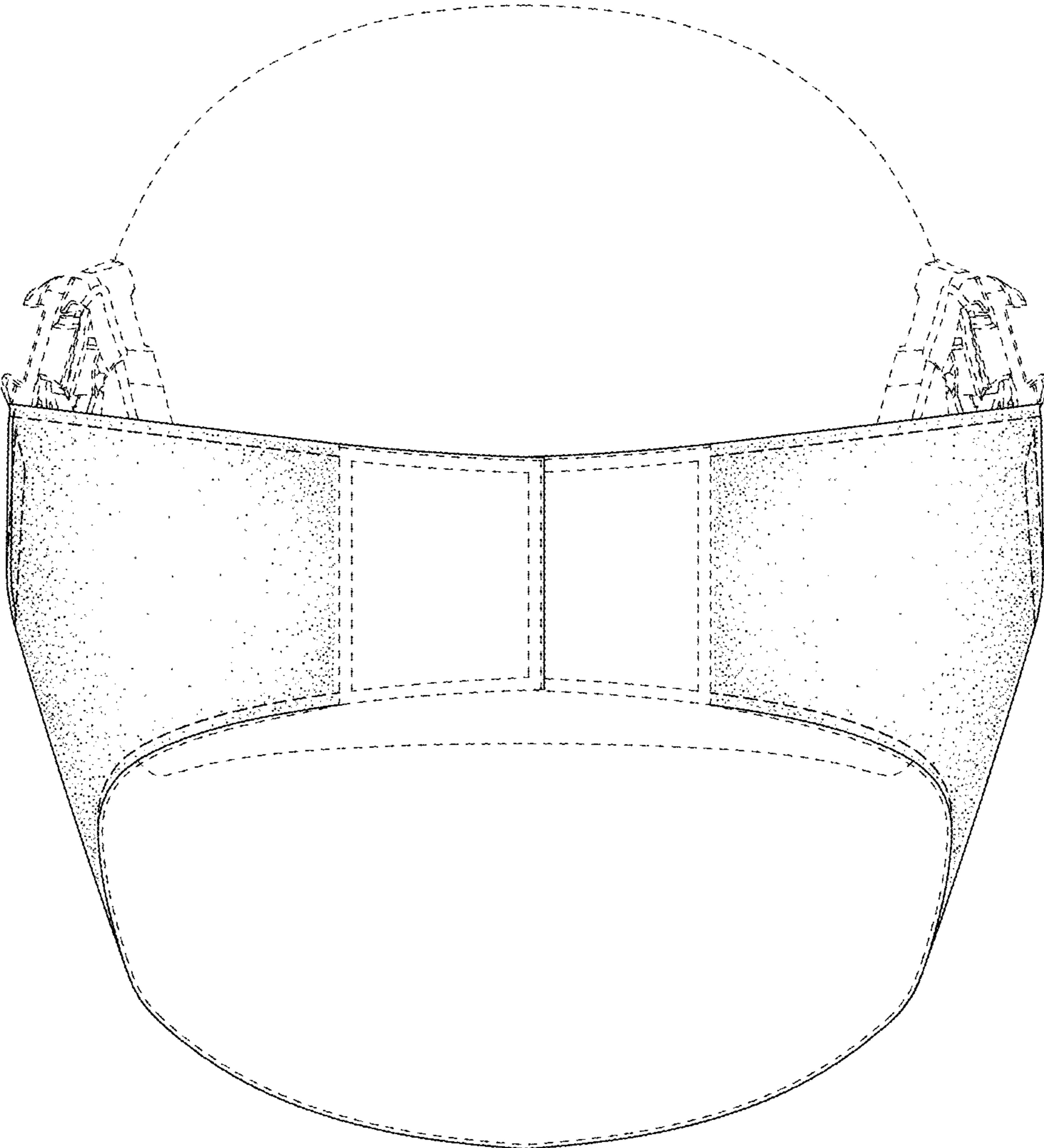


FIG. 4

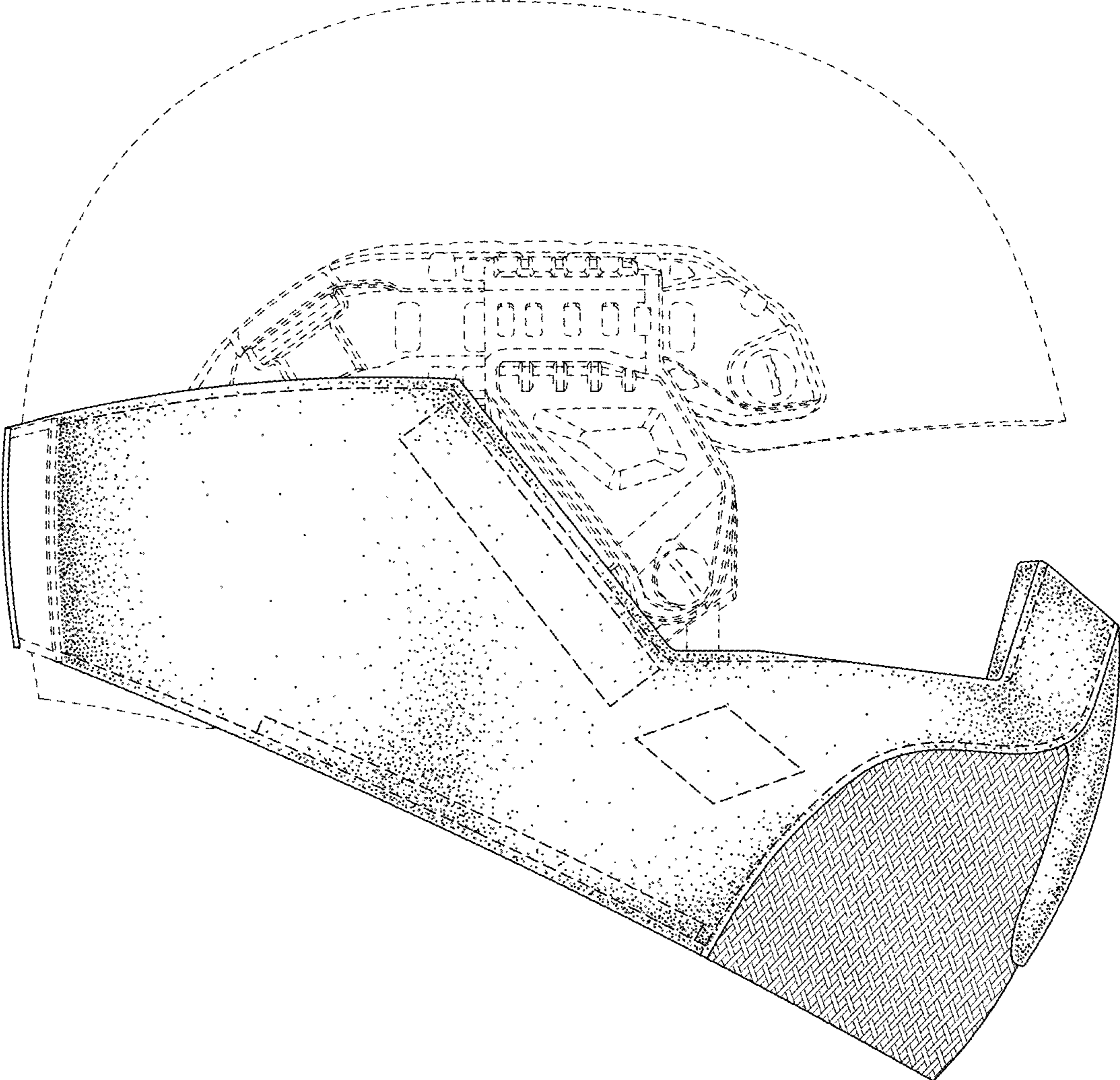


FIG. 5

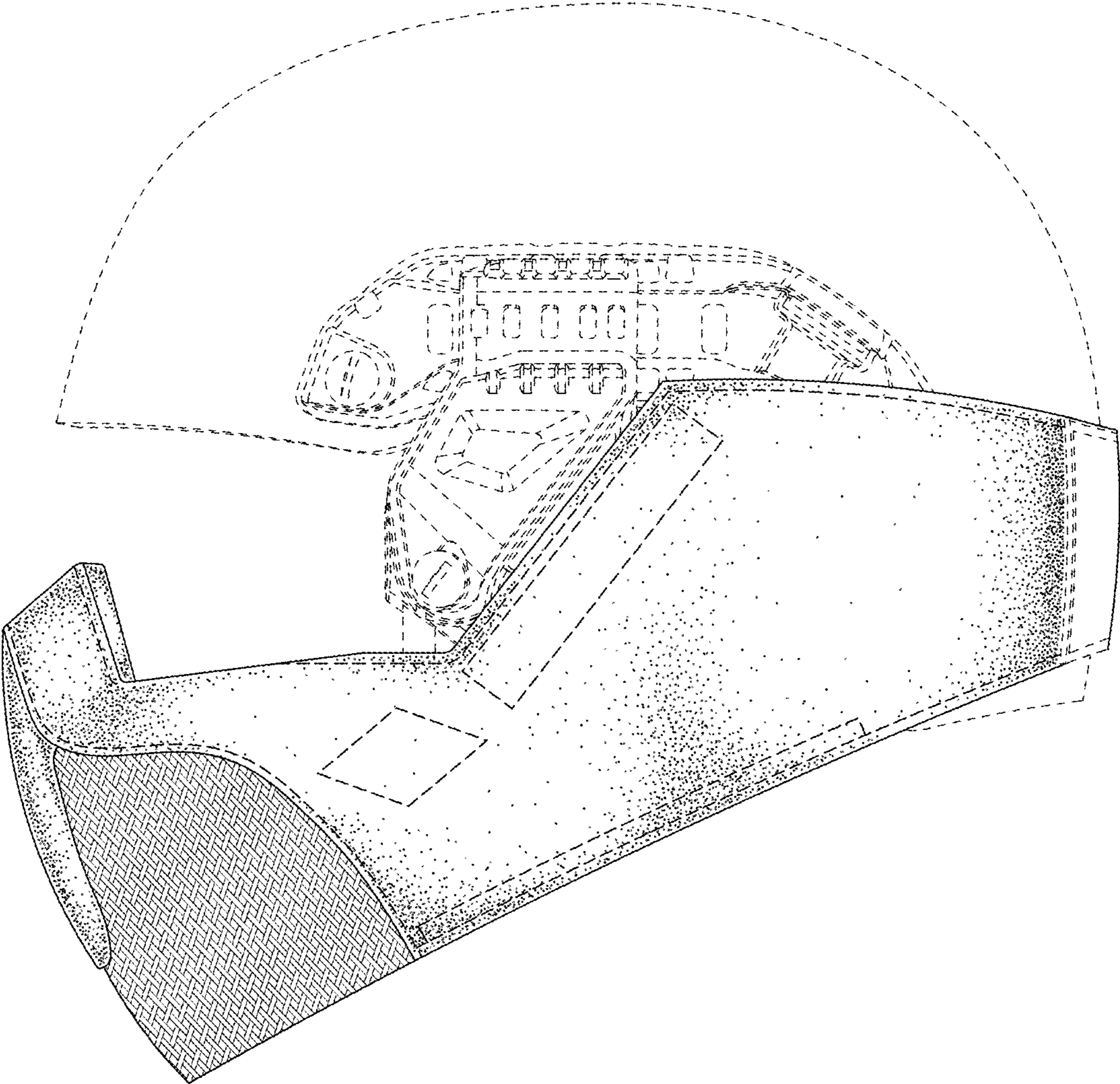


FIG.6



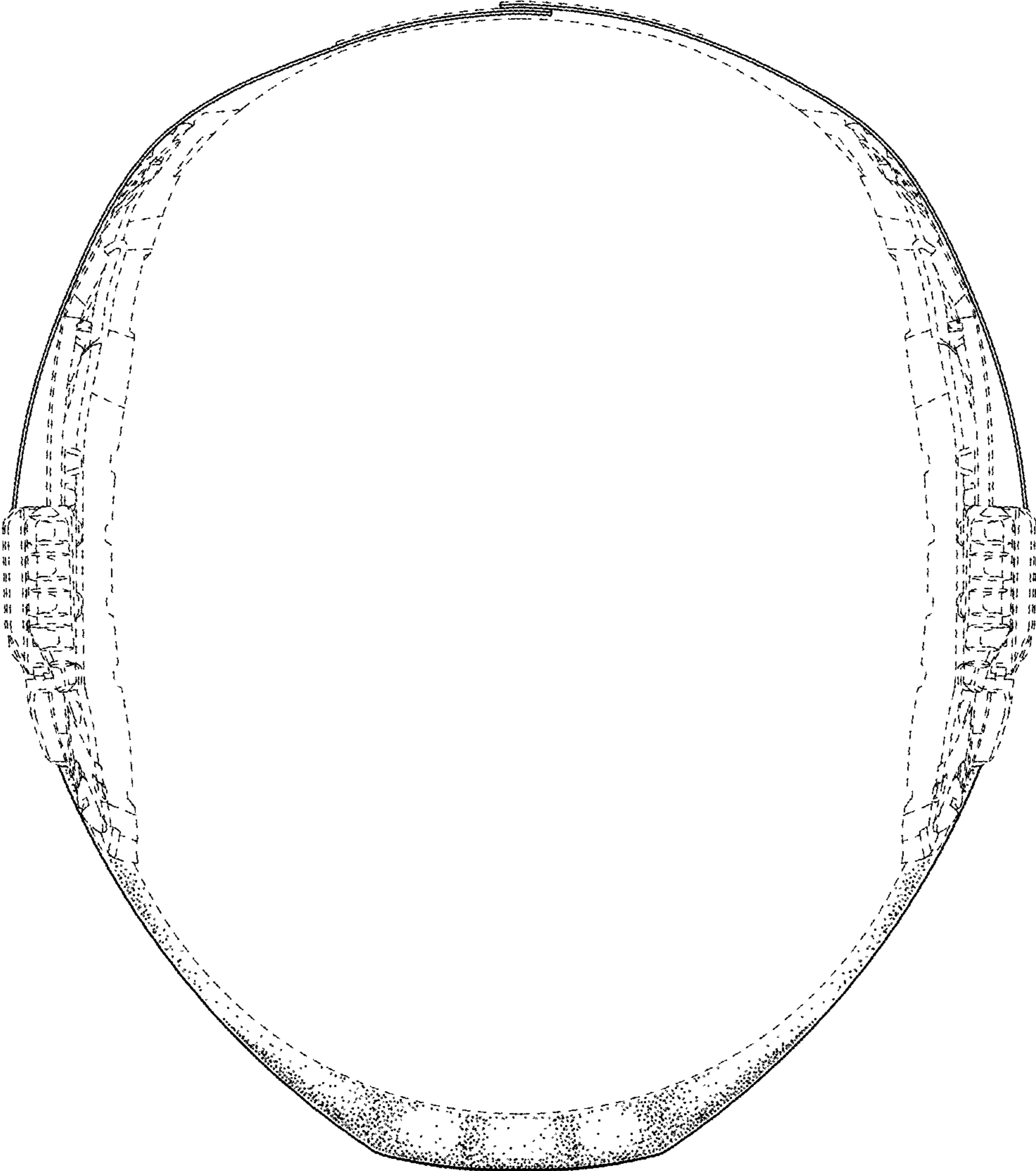


FIG. 7

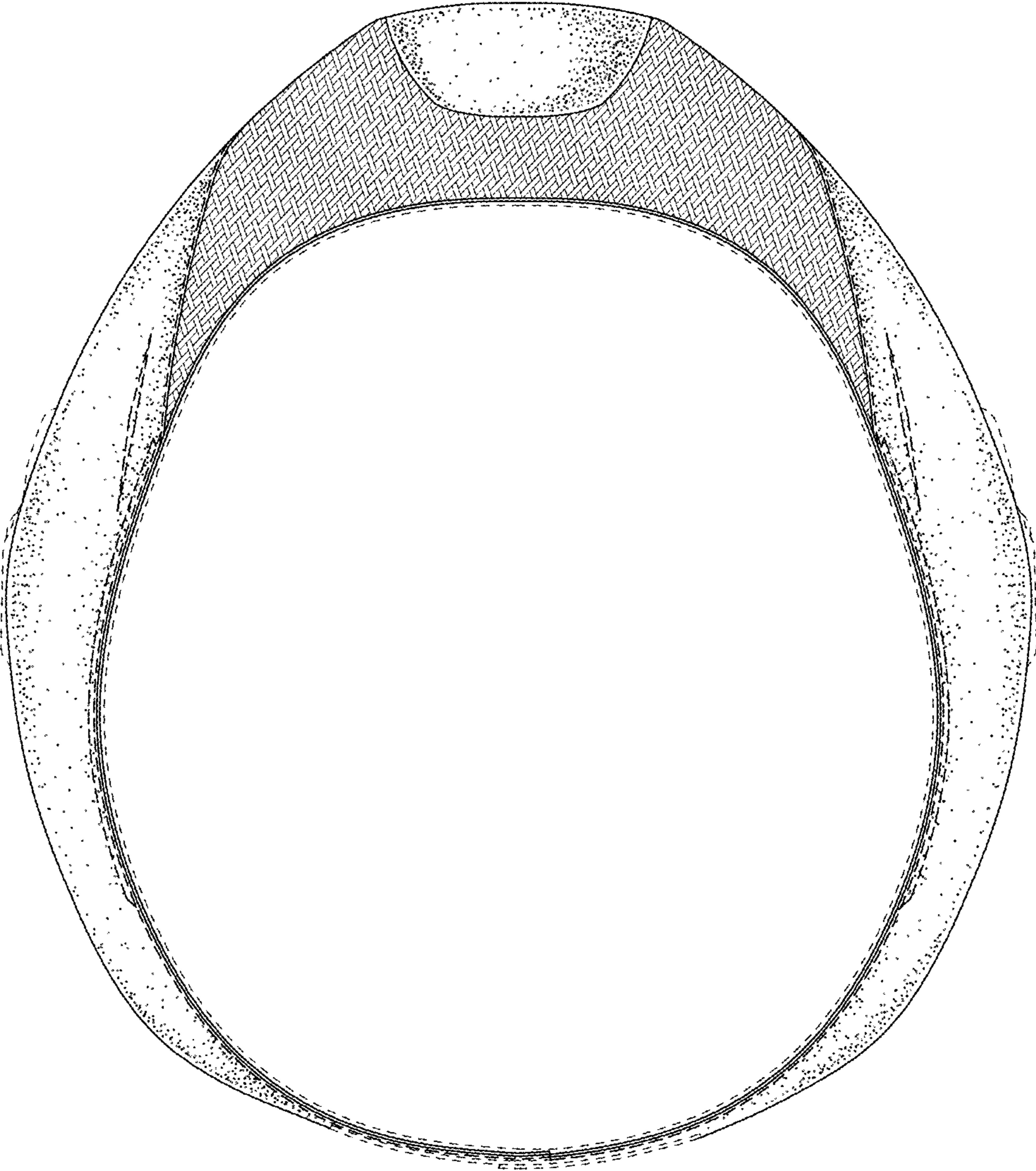


FIG. 8