



US00D884153S

(12) **United States Design Patent** (10) **Patent No.:** **US D884,153 S**
Patel et al. (45) **Date of Patent:** **** May 12, 2020**

(54) **FRAME FOR A MASK ASSEMBLY**
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2,706,983 A 4/1955 Matheson et al.
2,931,356 A 4/1960 Hermann
2,939,458 A 6/1960 Lundquist
3,680,555 A 8/1972 Warncke
4,263,908 A 4/1981 Mizerak
4,384,577 A 5/1983 Huber et al.
4,470,413 A 9/1984 Warncke
4,907,584 A 3/1990 McGinnis
5,005,571 A 4/1991 Dietz
5,243,971 A 9/1993 Sullivan et al.
5,513,634 A 5/1996 Jackson
5,540,223 A 7/1996 Starr et al.
5,560,354 A 10/1996 Berthon-Jones et al.
5,570,689 A 11/1996 Starr et al.

(Continued)

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(51) **LOC (12) Cl.** **29-02**

(52) **U.S. Cl.**
USPC **D24/110.4**

(58) **Field of Classification Search**
USPC D24/110, 110.1, 110.4–110.6, 127
CPC A61M 16/06; A61M 16/0683; A61M
16/0622; A61M 16/0616; A61M 16/0666
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

443,191 A 12/1890 Illing
804,272 A 11/1905 Schwarz
1,229,050 A 6/1917 Donald
1,445,010 A 2/1923 Feinberg
2,228,218 A 1/1941 Schwartz
2,353,643 A 7/1944 Bulbulian
2,403,046 A 7/1946 Bulbulian
2,415,846 A 2/1947 Eugene

FOREIGN PATENT DOCUMENTS

AU 2004201337 A1 10/2005
DE 3719009 12/1988

(Continued)

Primary Examiner — Lilyana Bekic

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(57) **CLAIM**

The ornamental design for a frame for a mask assembly, as shown and described.

DESCRIPTION

FIG. 1 is a front perspective view of a frame for a mask assembly.

FIG. 2 is a front view thereof.

FIG. 3 is a rear view thereof.

FIG. 4 is a left side view thereof.

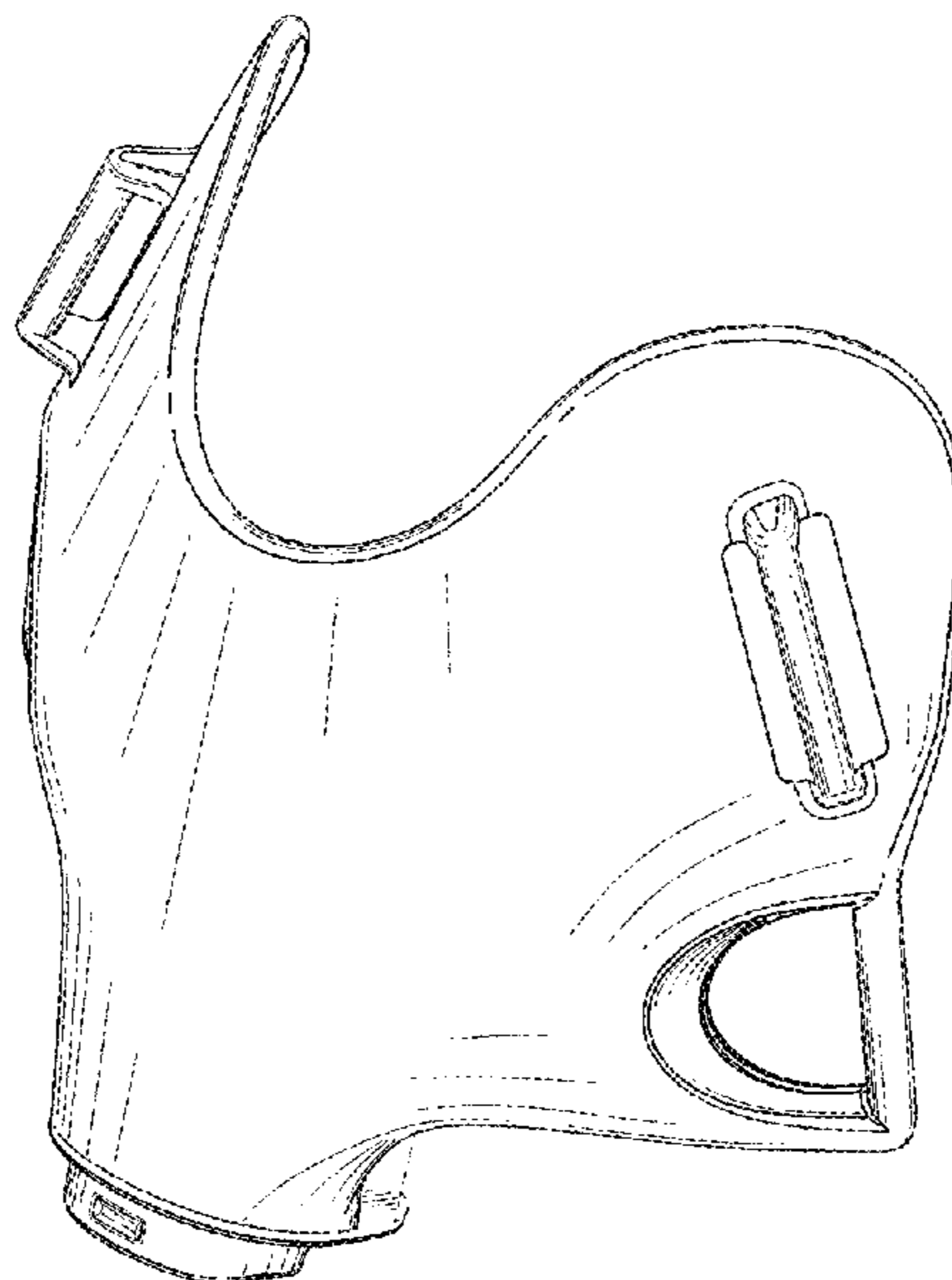
FIG. 5 is a right side view thereof.

FIG. 6 is a top view thereof; and,

FIG. 7 is a bottom view thereof.

The broken lines in the drawings depict portions of the frame for a mask assembly that form no part of the claimed design.

1 Claim, 7 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

2014/0326246 A1 11/2014 Chodkowski et al.
 2014/0352134 A1 12/2014 Ho
 2015/0007822 A1 1/2015 Berthon-Jones et al.
 2015/0040911 A1 2/2015 Davidson et al.
 2015/0047640 A1 2/2015 McCaslin
 2015/0059759 A1 3/2015 Frater et al.
 2015/0105590 A1 4/2015 Xiao
 2015/0144139 A1 5/2015 Lockhart
 2015/0174435 A1 6/2015 Jones
 2015/0182719 A1 7/2015 Grashow et al.
 2015/0193650 A1 7/2015 Ho et al.
 2015/0246199 A1 9/2015 Matula, Jr. et al.
 2015/0283349 A1* 10/2015 McLaren A61M 16/06
 128/206.21
 2015/0352306 A1 12/2015 Scheiner et al.
 2015/0352308 A1 12/2015 Cullen et al.
 2016/0001029 A1 1/2016 Bayer et al.
 2016/0022944 A1* 1/2016 Chodkowski A61M 16/0622
 128/206.24
 2016/0082214 A1 3/2016 Barlow et al.
 2016/0082216 A1 3/2016 Lynch et al.
 2016/0082217 A1* 3/2016 McLaren A61M 16/0683
 128/207.11
 2016/0151596 A1* 6/2016 Slight A61M 16/0622
 128/207.18
 2016/0175552 A1 6/2016 Harrington
 2016/0271351 A1 9/2016 Frater et al.
 2016/0287830 A1* 10/2016 Walls A61M 16/0683
 2016/0296720 A1 10/2016 Henry et al.
 2016/0367778 A1 12/2016 Eves et al.
 2017/0000964 A1 1/2017 Shafer
 2017/0021123 A1 1/2017 Chang
 2017/0028153 A1 2/2017 Judson et al.
 2017/0080174 A1 3/2017 Eves et al.
 2017/0136200 A1 5/2017 Matula, Jr.
 2017/0165444 A1 6/2017 Rummery et al.
 2017/0182273 A1 6/2017 Ho
 2017/0246411 A1* 8/2017 Mashal A61M 16/0683
 2017/0312467 A1 11/2017 Davidson et al.
 2017/0326321 A1 11/2017 Grashow et al.
 2017/0361048 A1 12/2017 Moiler et al.
 2017/0368286 A1 12/2017 Grashow et al.
 2018/0001044 A1 1/2018 Stephens et al.
 2018/0071475 A1 3/2018 Howard et al.
 2018/0099113 A1 4/2018 Bell et al.
 2018/0104430 A1 4/2018 Ng et al.
 2018/0140791 A1 5/2018 Jones et al.
 2018/0169367 A1 6/2018 Chodkowski et al.
 2018/0177965 A1* 6/2018 Patel A61M 16/0622
 2018/0236198 A1 8/2018 Veliss et al.

2018/0304036 A1* 10/2018 Huang A61M 16/0666
 2019/0224436 A1 7/2019 Cheng et al.
 2019/0232013 A1 8/2019 Yu et al.

FOREIGN PATENT DOCUMENTS

DE 4004157 4/1991
 DE 4307754 4/1994
 EP 1099452 5/2001
 EP 1258266 11/2002
 EP 1938856 7/2008
 EP 2474335 7/2012
 EP 2510968 10/2012
 EP 2708258 3/2014
 EP 3254721 12/2017
 EP 3305354 4/2018
 NZ 536545 12/2006
 NZ 547748 7/2010
 WO WO 1998/034665 8/1998
 WO WO 00/38772 7/2000
 WO WO 2000/074758 12/2000
 WO WO 2001/062326 8/2001
 WO WO 2003/076020 9/2003
 WO WO 2003/090827 11/2003
 WO WO 2004/071565 8/2004
 WO WO 2004/073778 9/2004
 WO WO 2005/018523 3/2005
 WO WO 2005/076874 8/2005
 WO WO 2005/086943 9/2005
 WO WO 2005/118040 12/2005
 WO WO 2008/023028 2/2008
 WO WO 2010/067235 6/2010
 WO WO 2010/073138 7/2010
 WO WO 2012/025843 3/2012
 WO WO 2012/055886 5/2012
 WO WO 2012/104757 8/2012
 WO WO 2013/056389 4/2013
 WO WO 2013/186654 12/2013
 WO WO 2014/020468 2/2014
 WO WO 2014/181214 11/2014
 WO WO 2014/183167 11/2014
 WO WO 2015/092621 6/2015
 WO WO 2015/161345 10/2015
 WO WO 2016/041008 3/2016
 WO WO 2016/041019 3/2016
 WO WO 2017/049361 3/2017
 WO WO 2017/103724 6/2017
 WO WO 2017/120643 7/2017
 WO WO 2017/124152 7/2017
 WO WO 2017/185140 11/2017
 WO WO 2018/177794 10/2018

* cited by examiner

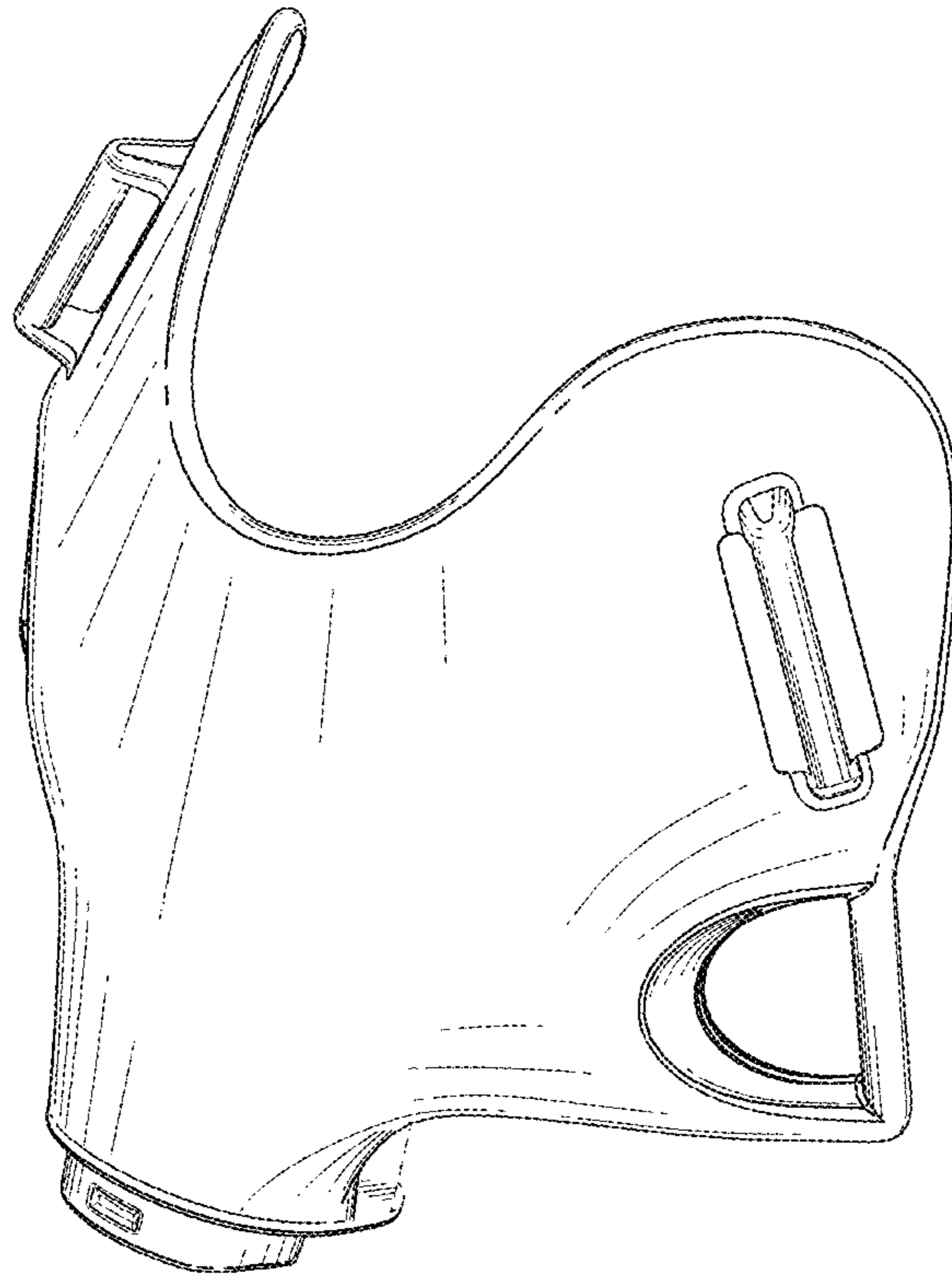


FIG. 1

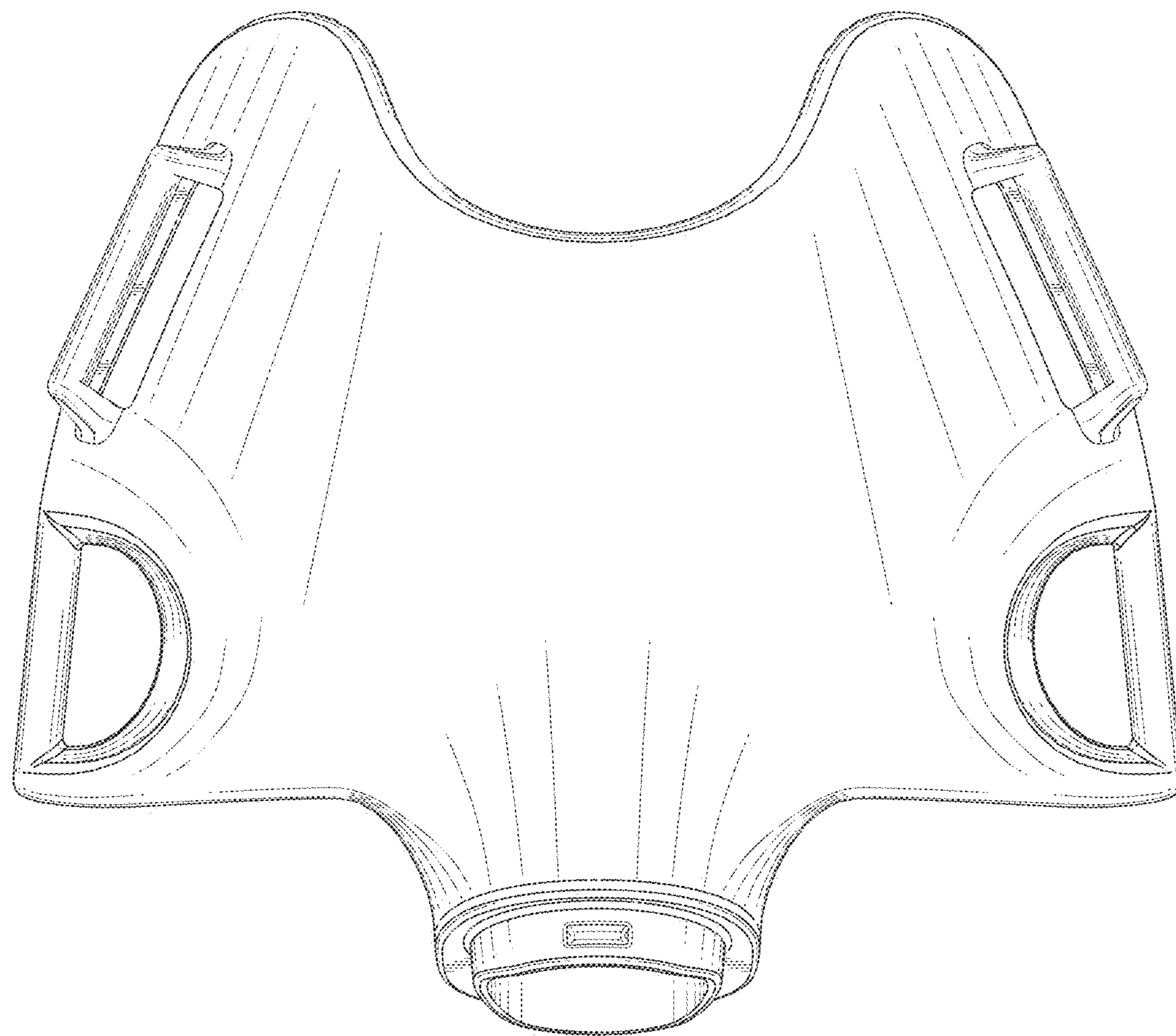


FIG. 2

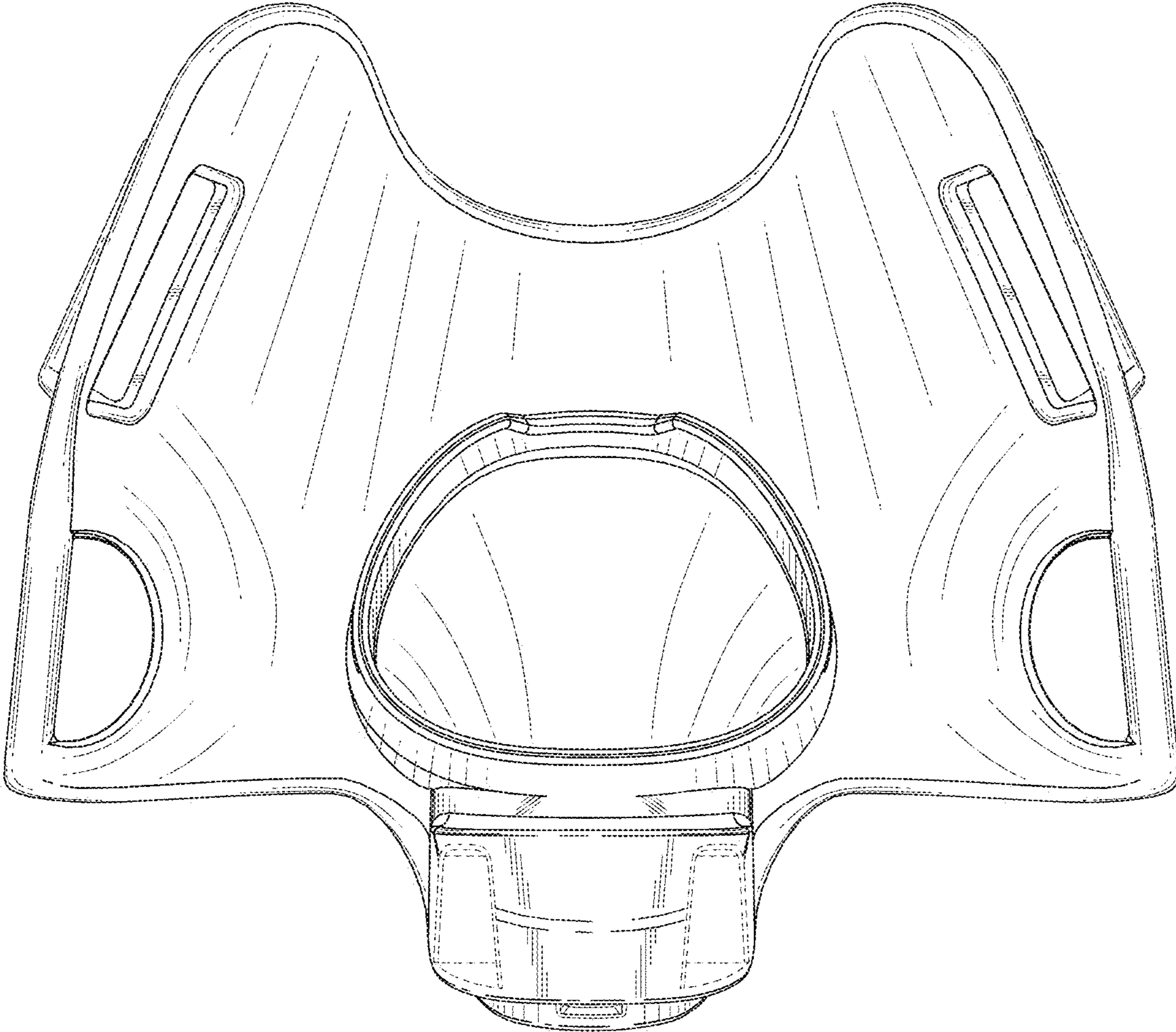


FIG. 3

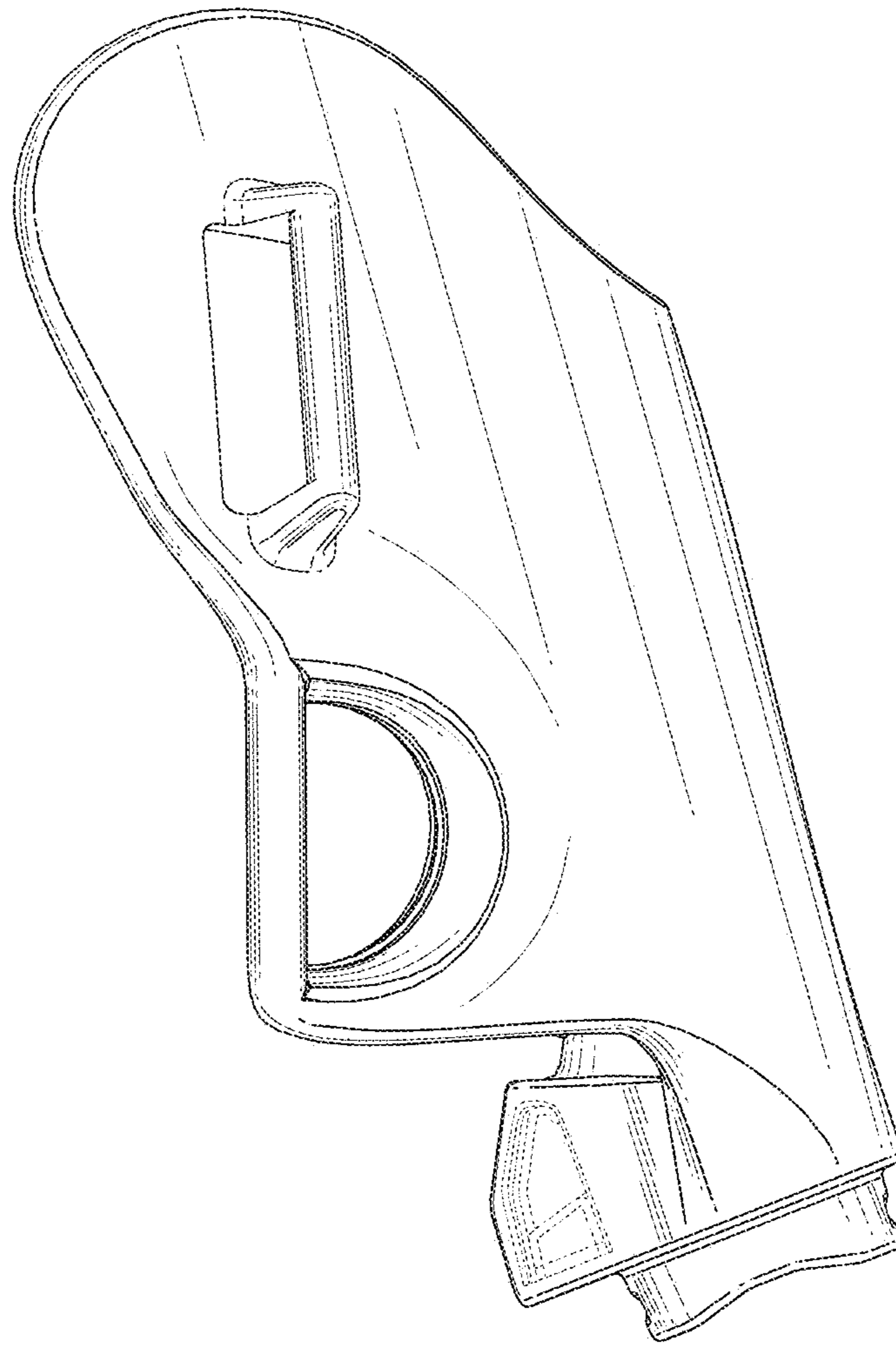


FIG. 4

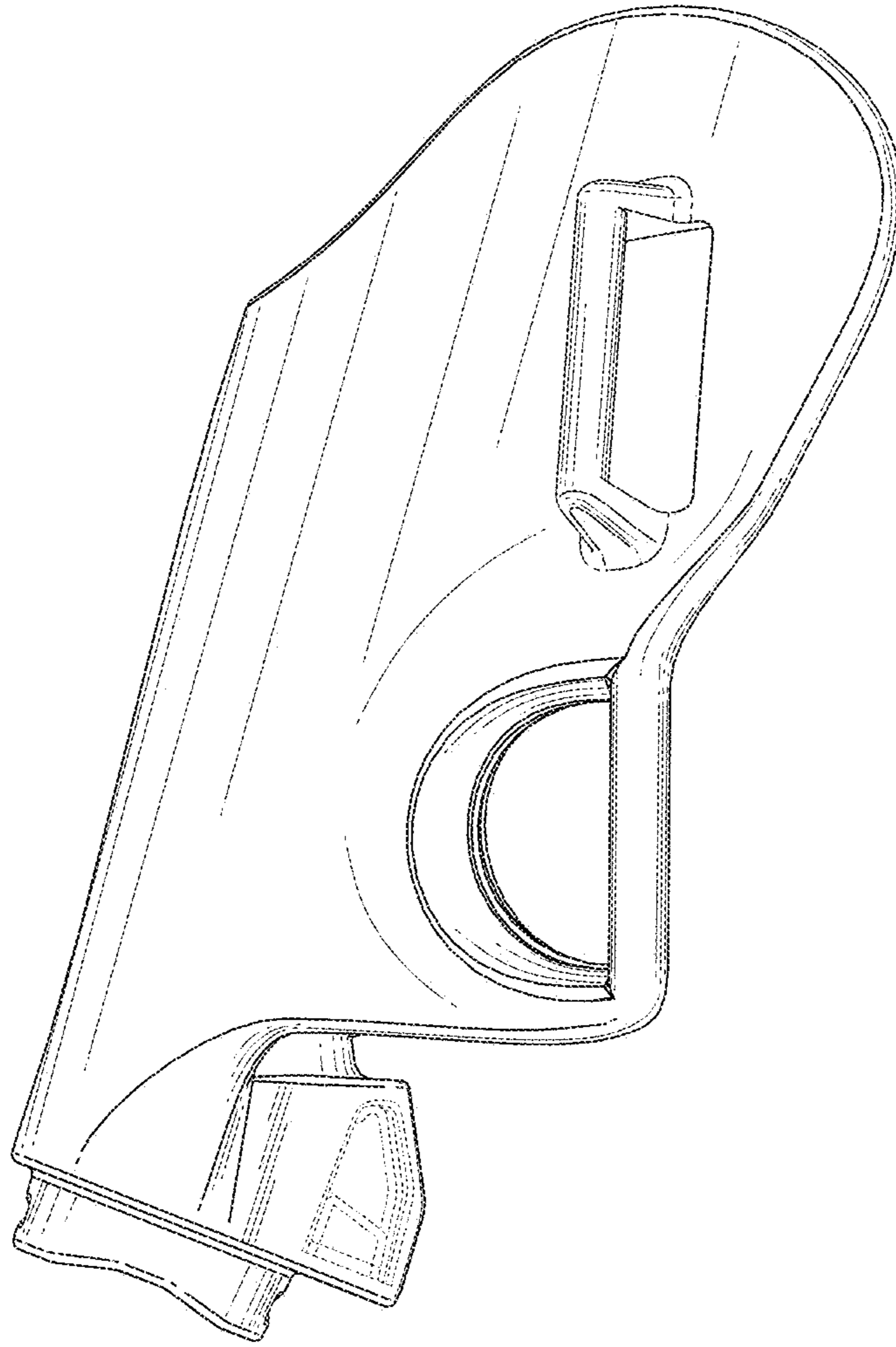


FIG. 5

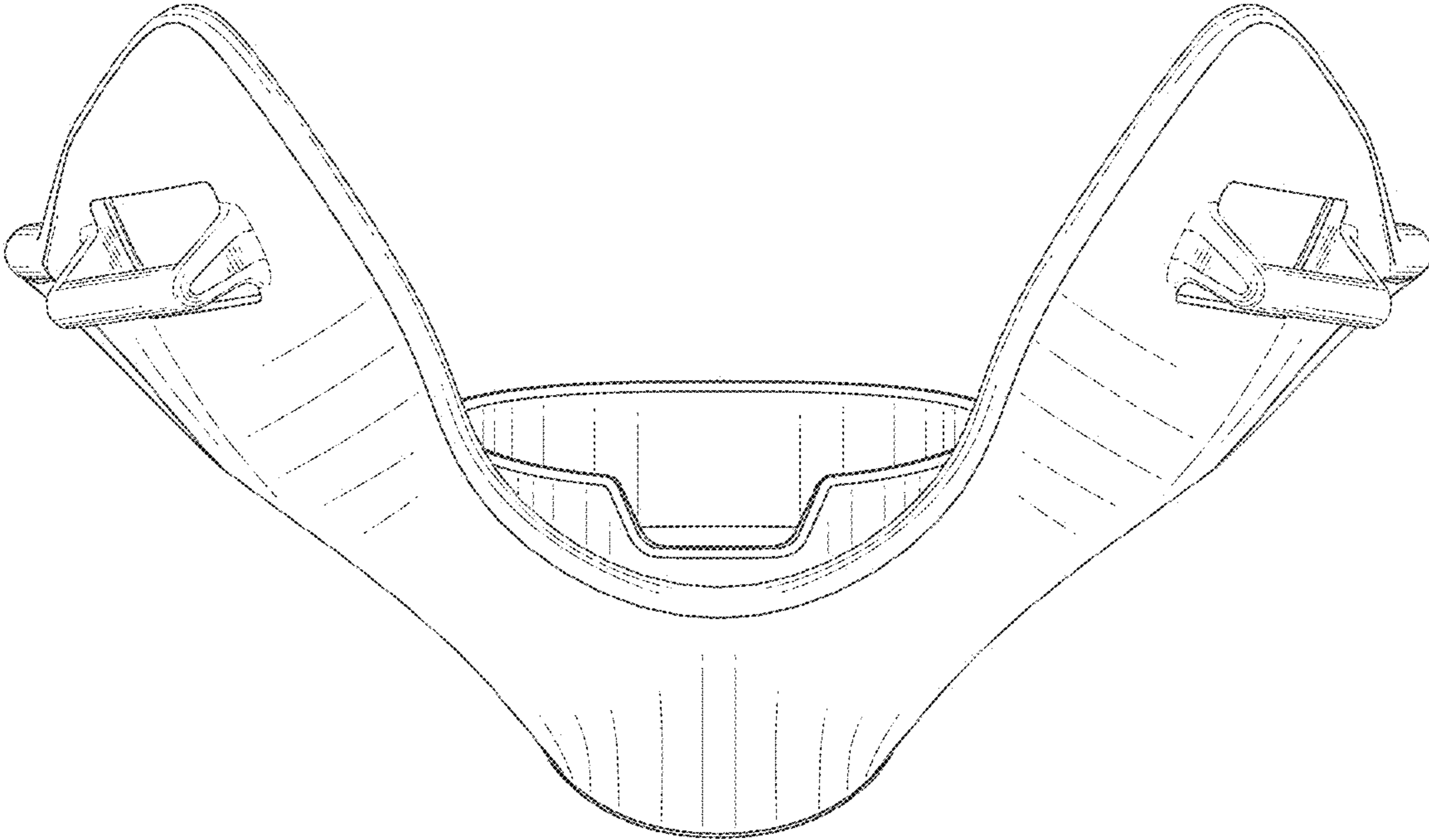


FIG. 6

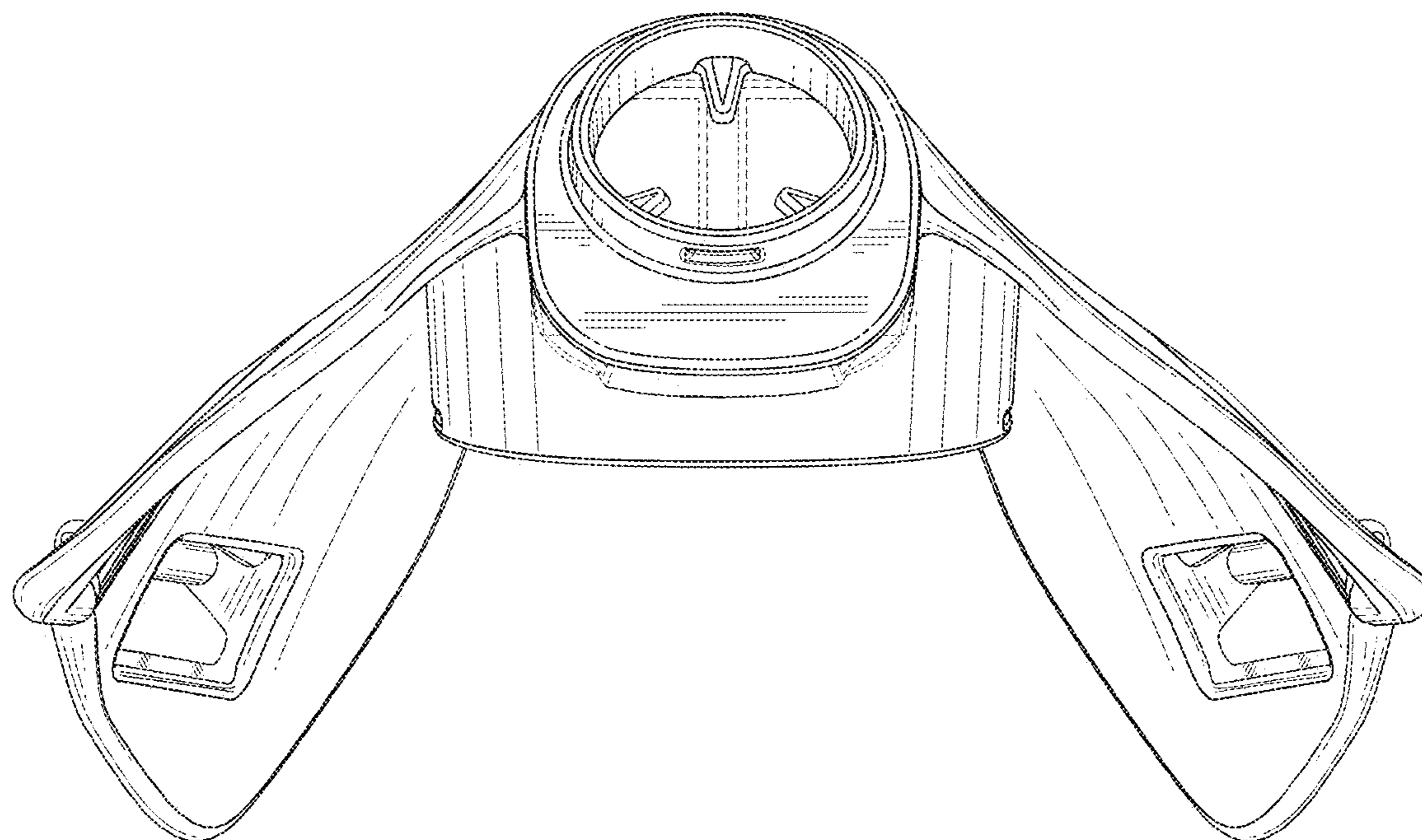


FIG. 7

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : D884,153 S
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Page 1 of 1

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

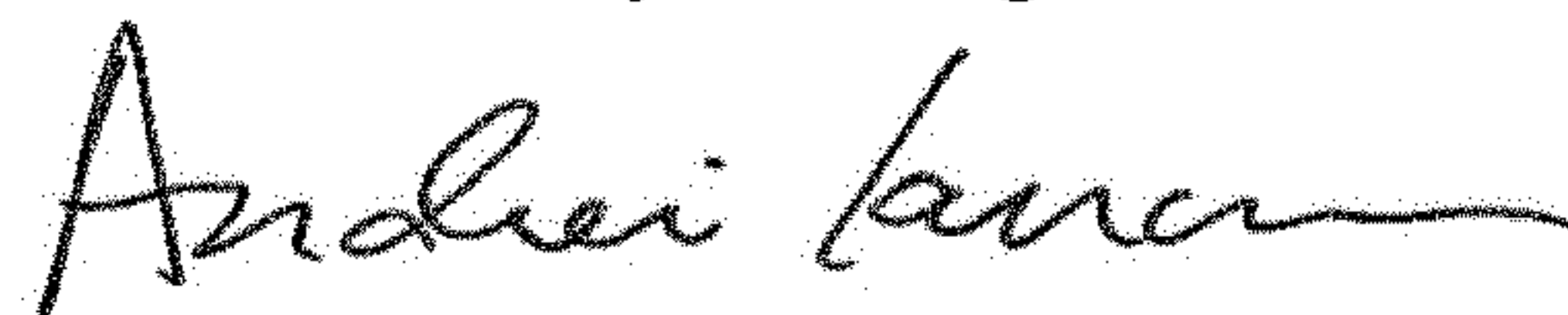
On the Title Page

On Page 2, Column 2, Item (56), Line 27, under U.S. Patent Documents, delete "1,018,881" and insert --10,188,819--.

On Page 2, Column 2, Item (56), Line 28, under U.S. Patent Documents, delete "1,026,549" and insert --10,265,490--.

On Page 2, Column 2, Item (56), Line 29, under U.S. Patent Documents, delete "1,036,931" and insert --10,369,318--.

Signed and Sealed this
Fourth Day of August, 2020



Andrei Iancu
Director of the United States Patent and Trademark Office