



US0D1010807S

(12)

United States Design Patent

Walls et al.

(10)

Patent No.:

US D1,010,807 S

(45)

Date of Patent:

** Jan. 9, 2024

- (54)

CROWN STRAP FOR HEADGEAR ASSEMBLY
- (71)

Applicant: Fisher & Paykel Healthcare Limited, Auckland (NZ)
- (72)

Inventors: Bruce Michael Walls, Auckland (NZ); Rex Gordon Faithfull, Auckland (NZ); Arvin San Jose Gardiola, Auckland (NZ); Wen Dong Huang, Auckland (NZ)
- (73)

Assignee: Fisher & Paykel Healthcare Limited, Auckland (NZ)
- (**)

Term: 15 Years
- (21)

Appl. No.: 29/862,331
- (22)

Filed: Dec. 8, 2022

Related U.S. Application Data

- (60)

Continuation of application No. 29/750,183, filed on Sep. 11, 2020, now Pat. No. Des. 976,388, which is a continuation of application No. 29/725,249, filed on Feb. 24, 2020, now Pat. No. Des. 898,898, which is a continuation of application No. 29/686,954, filed on Apr. 9, 2019, now Pat. No. Des. 879,287, which is a continuation of application No. 29/649,779, filed on Jun. 1, 2018, now Pat. No. Des. 849,930, which is a division of application No. 29/582,556, filed on Oct. 28, 2016, now Pat. No. Des. 822,194, which is a division of application No. 29/490,331, filed on May 8, 2014, now Pat. No. Des. 771,239.
- (51)

LOC (14) Cl. 29-02
- (52)

U.S. Cl. D24/110.1

- (58)

Field of Classification Search

USPC D24/110–110.6, 127, 128; D29/108, 122; D2/627, 636–638

CPC A61M 16/06; A61M 16/0616; A61M 16/0622; A61M 16/0666; A61M 16/0672; A61M 16/0683; A61M 16/08; A61M 16/0816

See application file for complete search history.

(56)

References Cited

U.S. PATENT DOCUMENTS

D189,112 S	10/1960	Klinger
3,047,876 A	8/1962	Malcolm
3,457,564 A	7/1969	Holloway
5,517,986 A	5/1996	Starr et al.
D383,204 S	9/1997	Lomas
6,119,694 A	9/2000	Correa et al.
D487,312 S	3/2004	Bailey
D542,912 S	5/2007	Guanaratnam
D653,748 S	2/2012	Henry

(Continued)

Primary Examiner — Daniel J Domino
Assistant Examiner — Lee D. Starr
(74) Attorney, Agent, or Firm — Knobbe, Martens Olson & Bear, LLP

- (57)

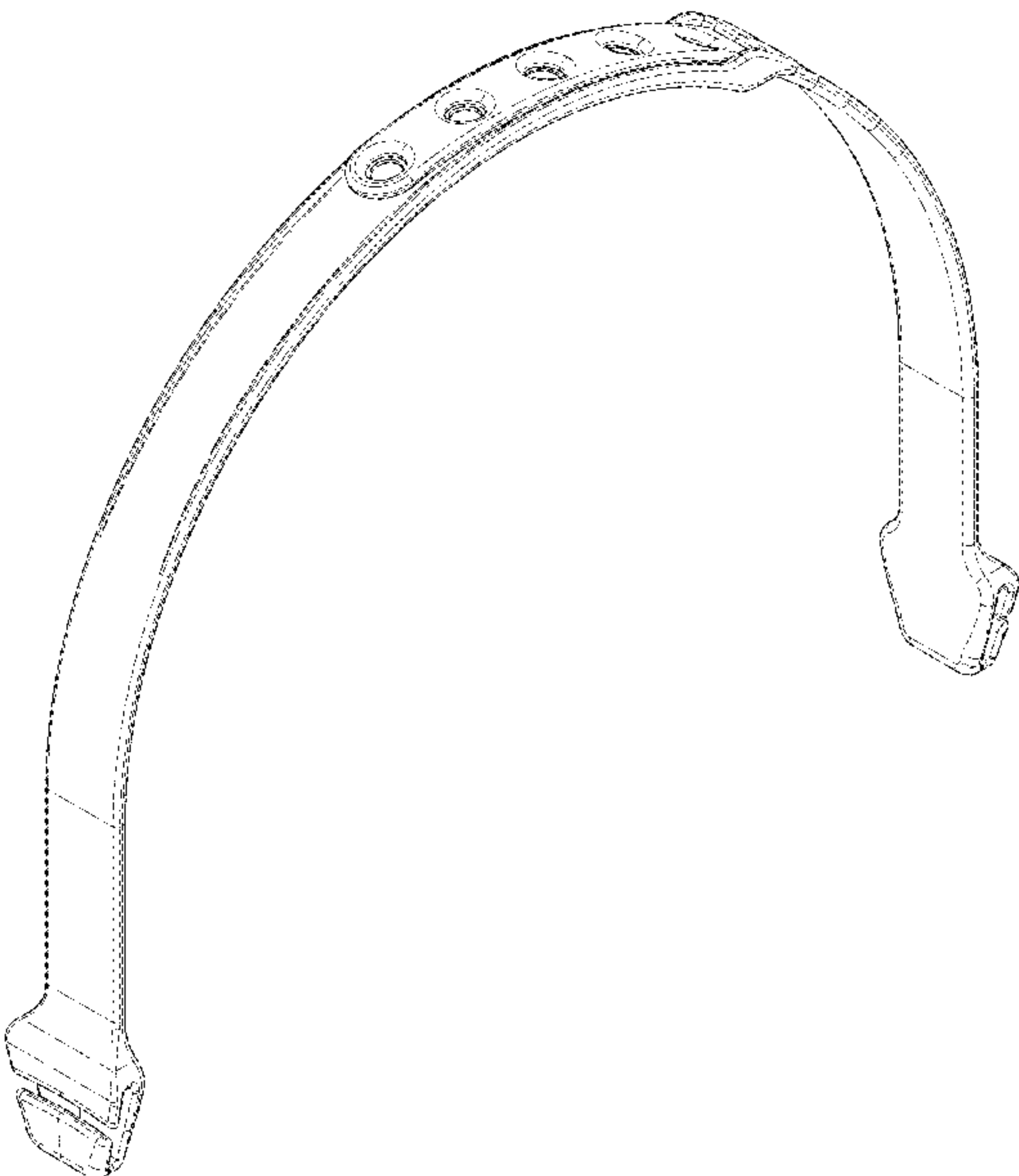
CLAIM

The ornamental design for a crown strap for headgear assembly, as shown and described.

DESCRIPTION

FIG. 1 is a rear, top, right side perspective view of a crown strap portion of a crown strap for headgear assembly; FIG. 2 is a right side of the crown strap portion thereof; FIG. 3 is a rear view of the crown strap portion thereof; FIG. 4 is a left side view of the crown strap portion thereof; FIG. 5 is a top view of the crown strap portion thereof; FIG. 6 is a front view of the crown strap portion thereof; and, FIG. 7 is a bottom view of the crown strap portion thereof.

1 Claim, 7 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

D668,328 S	10/2012	Hill et al.	2006/0196511 A1	9/2006	Lau et al.
D685,463 S	7/2013	Veliss et al.	2006/0237017 A1	10/2006	Davidson et al.
D692,554 S	10/2013	Siew et al.	2007/0245466 A1	10/2007	Lilenthal et al.
D693,459 S	11/2013	Prentice et al.	2009/0044808 A1	2/2009	Guney et al.
D696,767 S	12/2013	Scheiner et al.	2009/0183739 A1	7/2009	Wondka
D704,329 S	5/2014	Collazo et al.	2010/0258136 A1	10/2010	Doherty
D706,413 S	6/2014	Veliss et al.	2011/0000492 A1	1/2011	Veliss
D709,181 S	7/2014	Henry et al.	2011/0232649 A1	9/2011	Collazo et al.
8,839,785 B2	9/2014	Castiglione et al.	2011/0259335 A1	10/2011	Sullivan
8,875,318 B2	11/2014	Huh	2011/0308520 A1	12/2011	McAuley et al.
D749,205 S	2/2016	Chen et al.	2012/0067349 A1	3/2012	Barlow et al.
D757,252 S	5/2016	Von Moger et al.	2012/0090622 A1	4/2012	Chang
D762,844 S	8/2016	Siew et al.	2013/0042871 A1	2/2013	Chang
D770,036 S	10/2016	Walls et al.	2013/0186403 A1	7/2013	Chang
D771,239 S	11/2016	Walls et al.	2013/0199537 A1	8/2013	Formica et al.
9,517,320 B2	12/2016	Barlow et al.	2013/0220327 A1	8/2013	Barlow et al.
9,629,974 B2	4/2017	Gibson et al.	2014/0000614 A1	1/2014	Chang
D787,662 S	5/2017	Guney et al.	2014/0283843 A1	9/2014	Eves
D797,921 S	9/2017	Huang et al.	2015/0151071 A1	6/2015	Von Moger et al.
D815,728 S	4/2018	Walls et al.	2015/0335848 A1	11/2015	Eury et al.
D822,194 S	7/2018	Walls et al.	2016/0015921 A1	1/2016	Harrison et al.
10,039,894 B2	8/2018	Walls et al.	2016/0074611 A1	3/2016	Higgins et al.
D849,930 S	5/2019	Walls et al.	2016/0074614 A1	3/2016	Huddart et al.
D867,577 S	11/2019	Walls et al.	2016/0271354 A1	9/2016	Grashow et al.
D874,646 S	2/2020	Gordon et al.	2016/0287830 A1	10/2016	Walls et al.
D875,242 S	2/2020	Gordon et al.	2016/0317772 A1	11/2016	Ging et al.
D879,287 S	3/2020	Walls et al.	2017/0021121 A1	1/2017	Guney et al.
10,668,242 B2	6/2020	Bearne et al.	2017/0080173 A1	3/2017	Barlow et al.
D892,305 S	8/2020	Walls et al.	2018/0318541 A1	11/2018	Walls et al.
D898,898 S	10/2020	Walls et al.	2019/0030272 A1	1/2019	Graham et al.
D976,388 S *	1/2023	Walls	2019/0151592 A1	5/2019	Bornholdt et al.
		D24/110.4	2019/0217040 A1	7/2019	Amarasinghe
			2020/0114109 A1	4/2020	Klenner et al.
			2020/0179636 A1	6/2020	Gunaratnam et al.

* cited by examiner

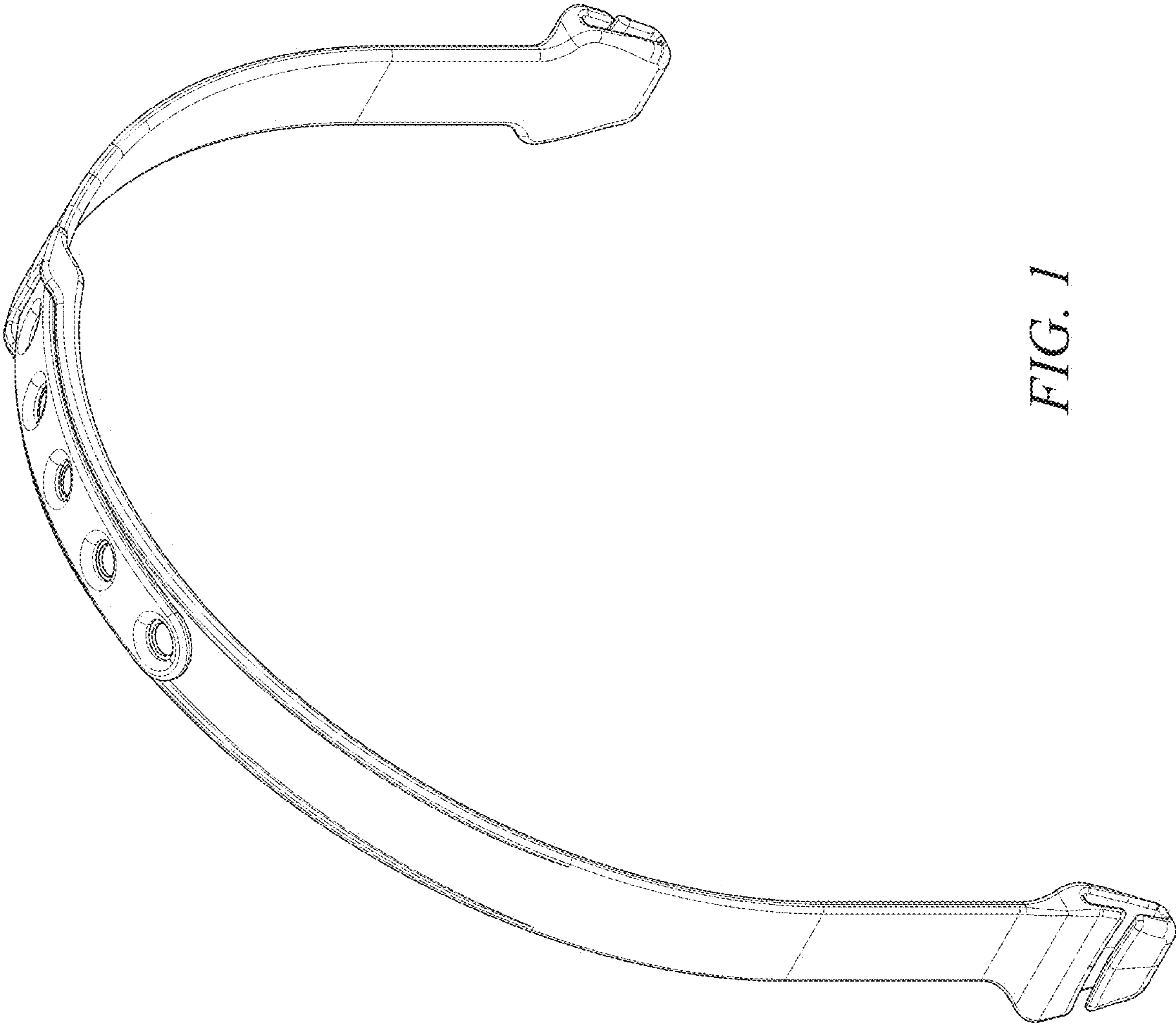


FIG. 1

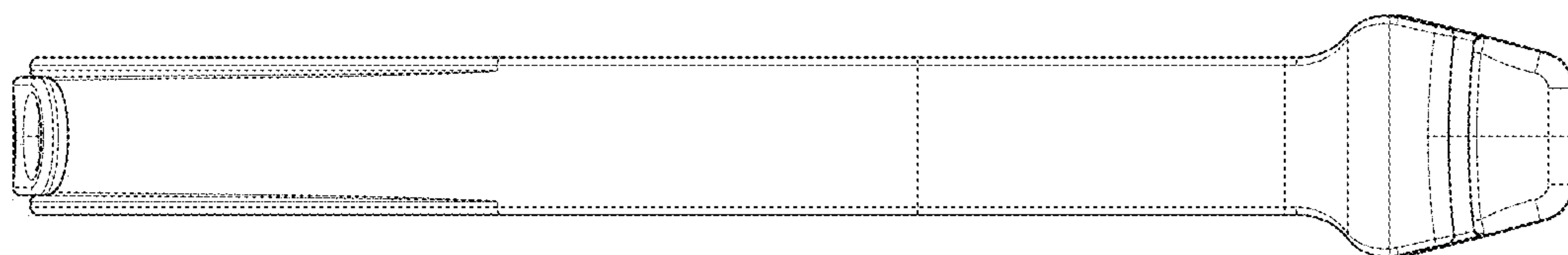


FIG. 2

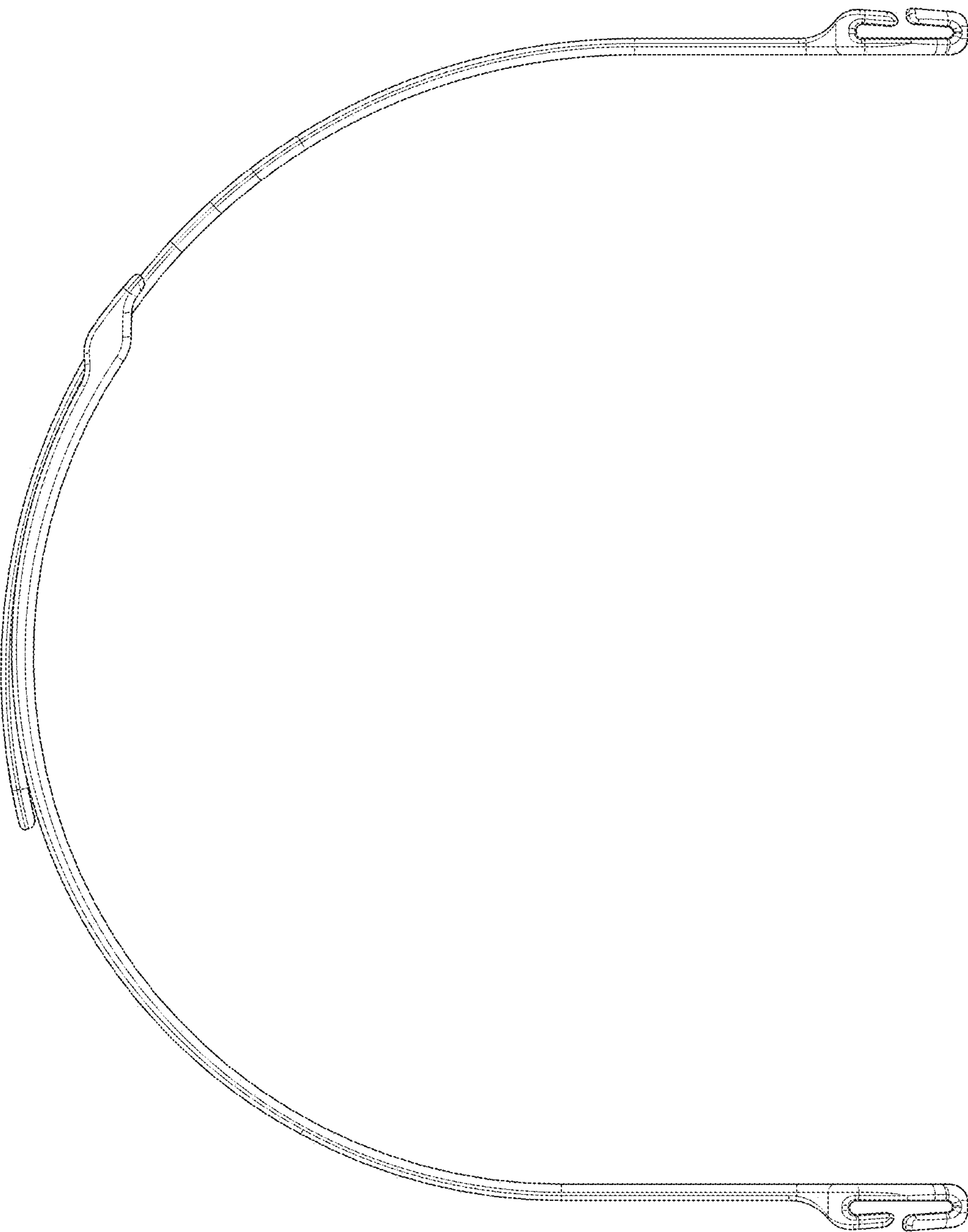


FIG. 3

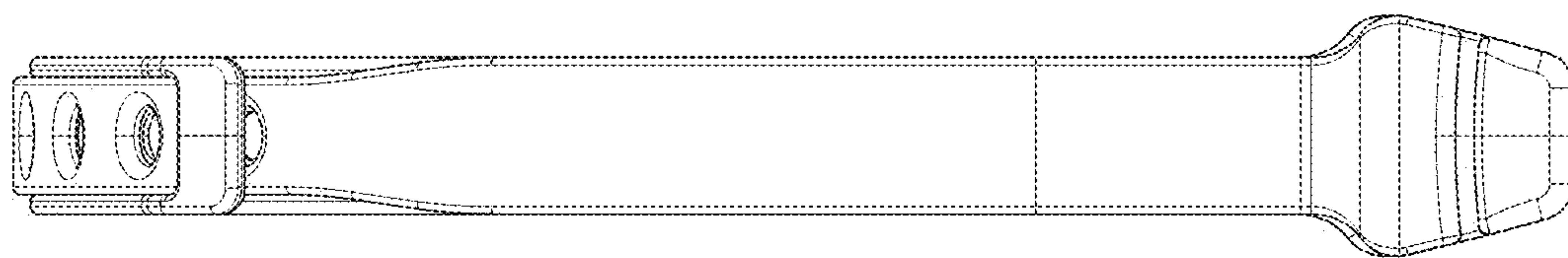


FIG. 4

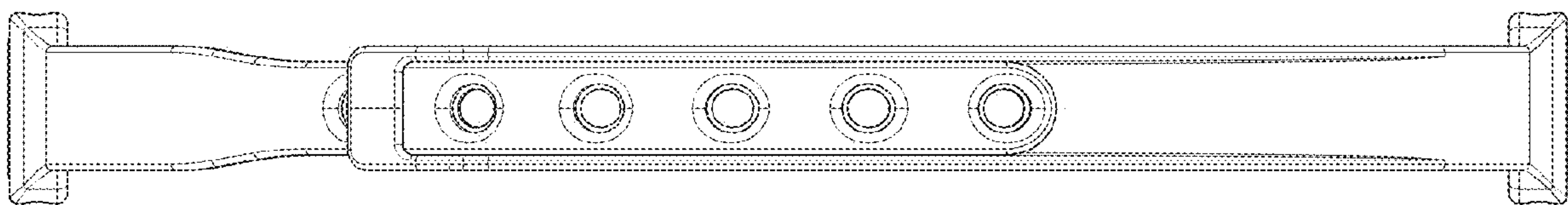


FIG. 5

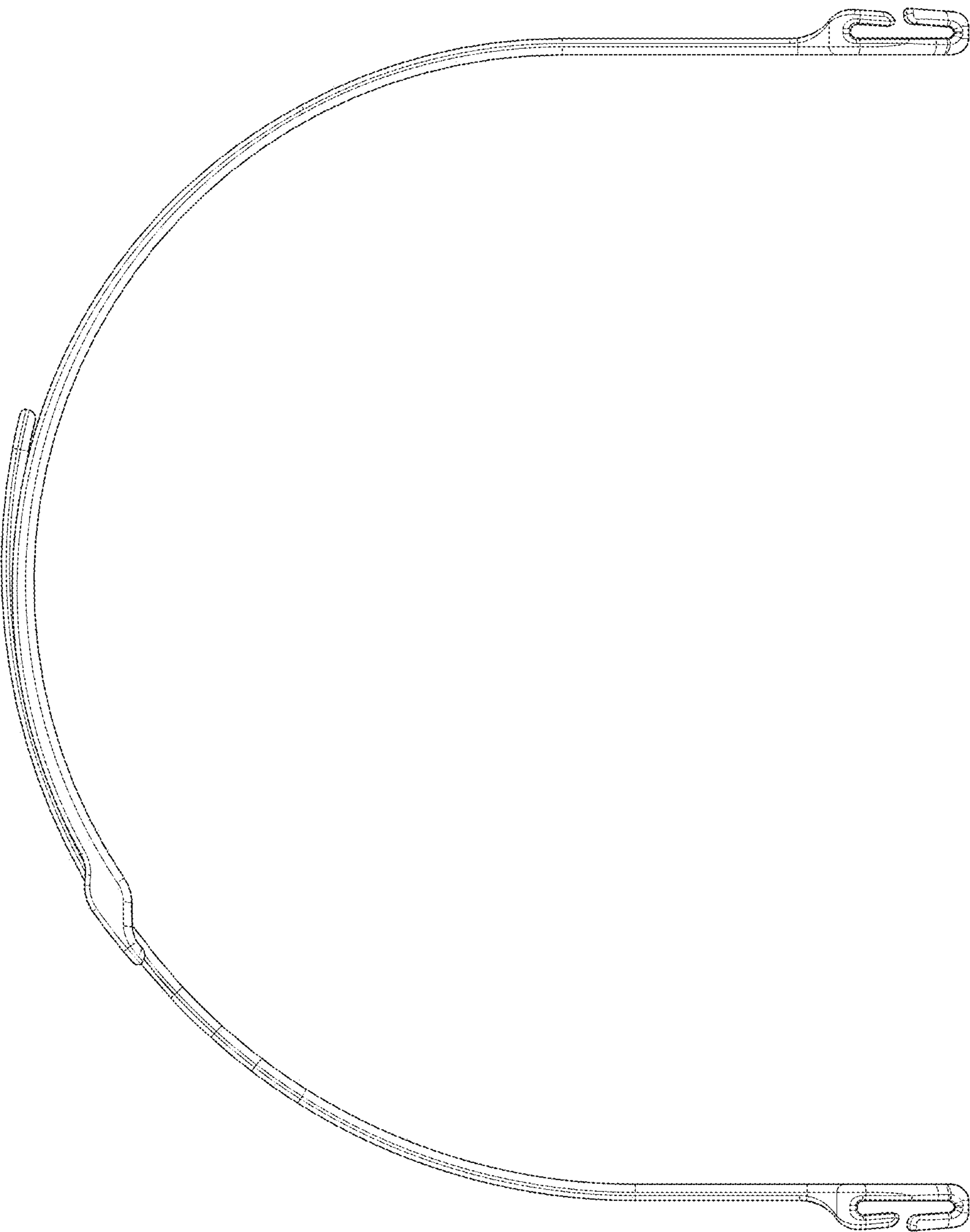


FIG. 6

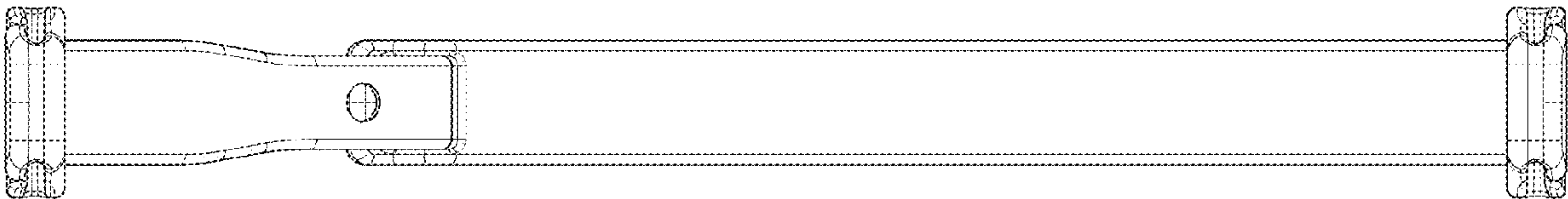


FIG. 7