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(12) **United States Design Patent** (10) **Patent No.:** **US D901,023 S**
Park et al. (45) **Date of Patent:** **** Nov. 3, 2020**

(54) **WEARABLE MUSCULAR STRENGTH AID APPARATUS**

D784,547 S * 4/2017 Kwon A61F 5/0102
D24/190

D833,024 S * 11/2018 Chang A61H 1/0262
D24/190

(71) Applicant: **LG Electronics Inc.**, Seoul (KR)

10,449,105 B2 * 10/2019 Hollander A61F 5/0102
D877,910 S * 3/2020 Moreeuw D24/155

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10,588,811 B2 * 3/2020 Simon A61F 2/605
10,603,786 B2 * 3/2020 Nam A61H 1/024

(Continued)

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

(57) **CLAIM**

(21) Appl. No.: **35/507,111**

The ornamental design for a wearable muscular strength aid
apparatus, as shown and described.

(22) Filed: **Dec. 20, 2018**

(80) **Hague Agreement Data**

DESCRIPTION

Int. Filing Date: **Dec. 20, 2018**

Int. Reg. No.: **DM/202026**

Int. Reg. Date: **Dec. 20, 2018**

Int. Reg. Pub. Date: **Jul. 26, 2019**

1. Wearable muscular strength aid apparatus

1.1 : Perspective

1.2 : Front

1.3 : Back

1.4 : Left

1.5 : Right

1.6 : Top

1.7 : Bottom

(51) **LOC (12) Cl.** **24-01**

(52) **U.S. Cl.**
USPC **D24/190**

(58) **Field of Classification Search**

USPC D21/683; D24/155, 190–192

CPC A61F 5/01; A61F 5/0102; A61F 5/0123;

A61F 5/0125; A61F 5/0193; A61F 5/028;

A61H 3/00; B25J 9/0006

See application file for complete search history.

The broken lines depict portions of the wearable muscular
strength aid apparatus that form no part of the claimed
design; the fine lines on the drawings indicate the flat surface
or curved surface; reproduction **1.1** is a front perspective
view of the wearable muscular strength aid apparatus;
reproduction **1.2** is a front view thereof; reproduction **1.3** is
a back view thereof; reproduction **1.4** is a left view thereof;
reproduction **1.5** is a right view thereof; reproduction **1.6** is
a top view thereof; and reproduction **1.7** is a bottom view
thereof; this is a design for a wearable muscular strength aid
apparatus made of textile, synthetic resin and metal; the
claimed design supports the hip and spine.

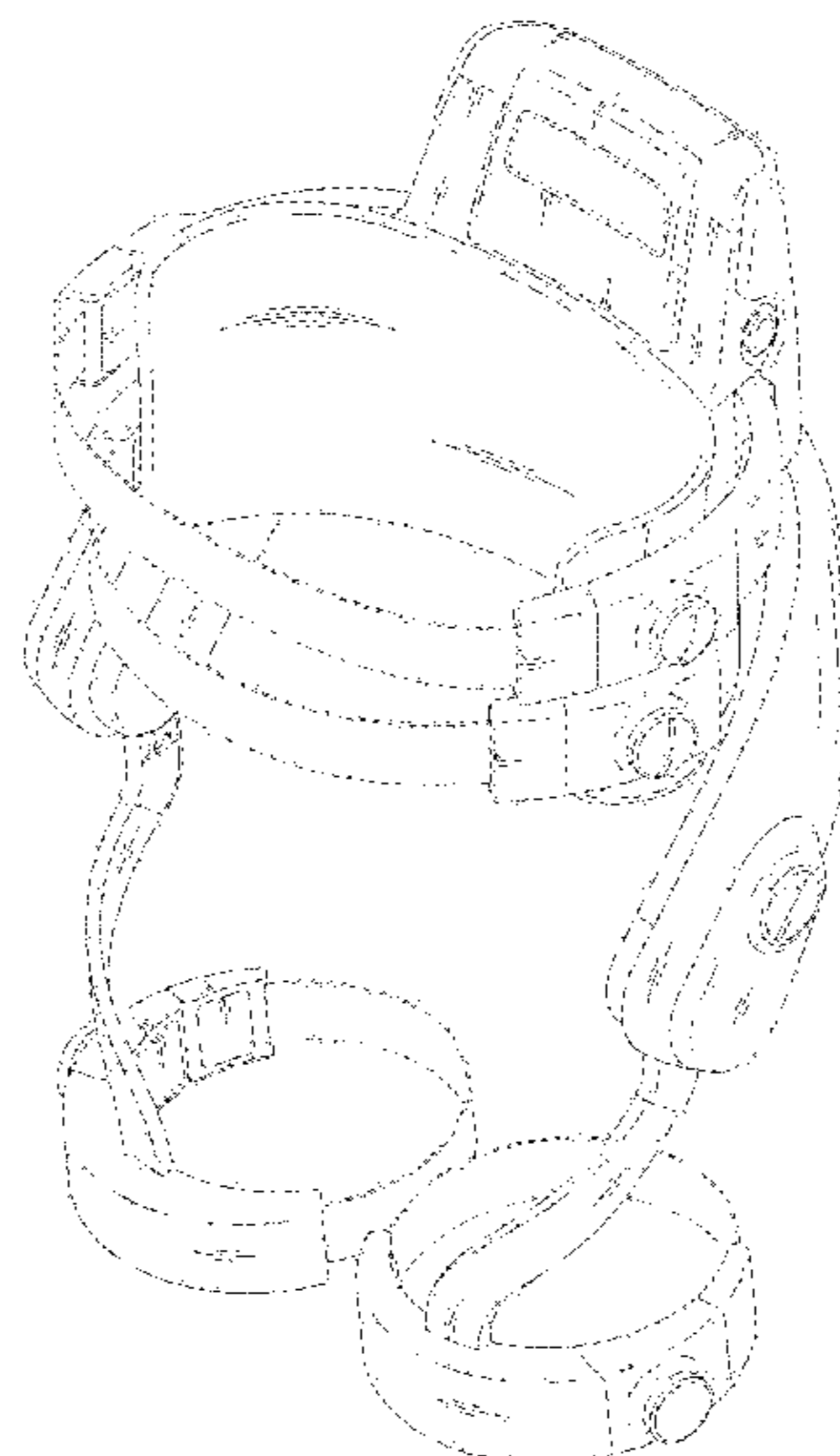
(56) **References Cited**

U.S. PATENT DOCUMENTS

D781,430 S * 3/2017 Konishi A61F 2/70
D24/190

D784,545 S * 4/2017 Jangir A61F 2/605
D24/190

1 Claim, 7 Drawing Sheets



(56)

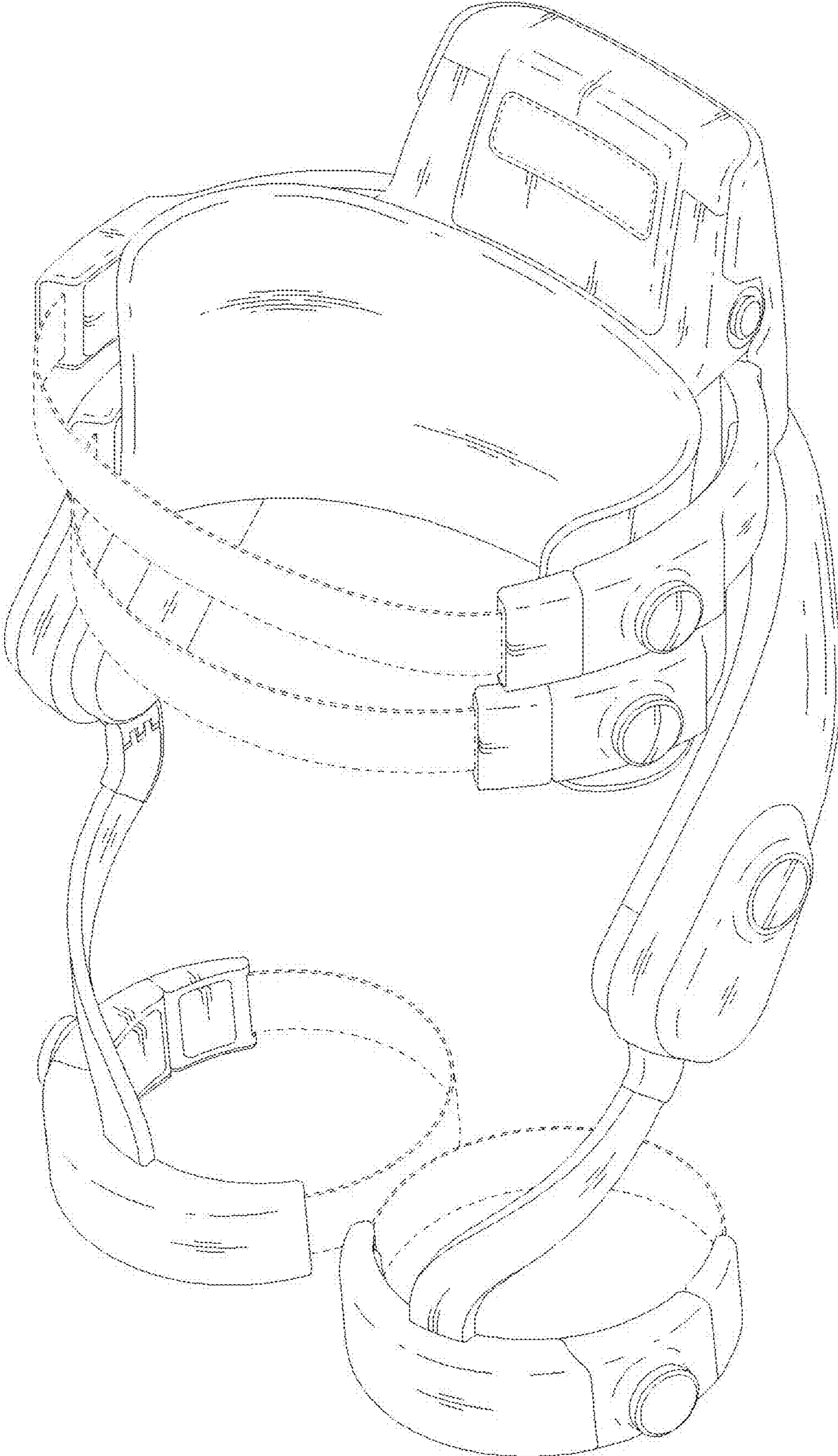
References Cited

U.S. PATENT DOCUMENTS

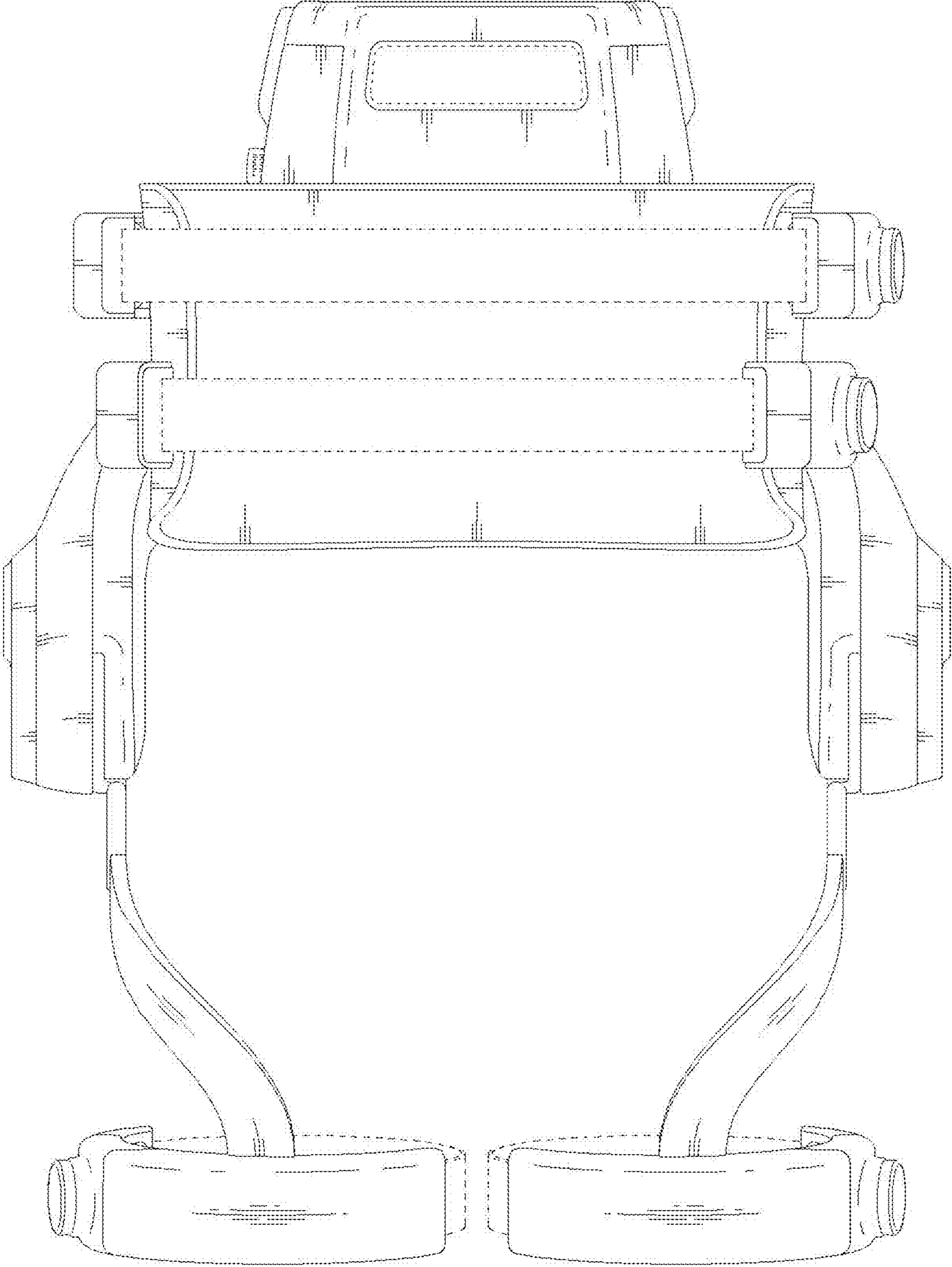
2016/0051435 A1* 2/2016 Ito A61F 2/70
623/24
2016/0338897 A1* 11/2016 Takenaka A61H 3/00
2017/0071814 A1* 3/2017 Endo A61H 3/00
2018/0177669 A1* 6/2018 Cho A61H 3/00
2019/0009405 A1* 1/2019 Ko A61H 1/0262

* cited by examiner

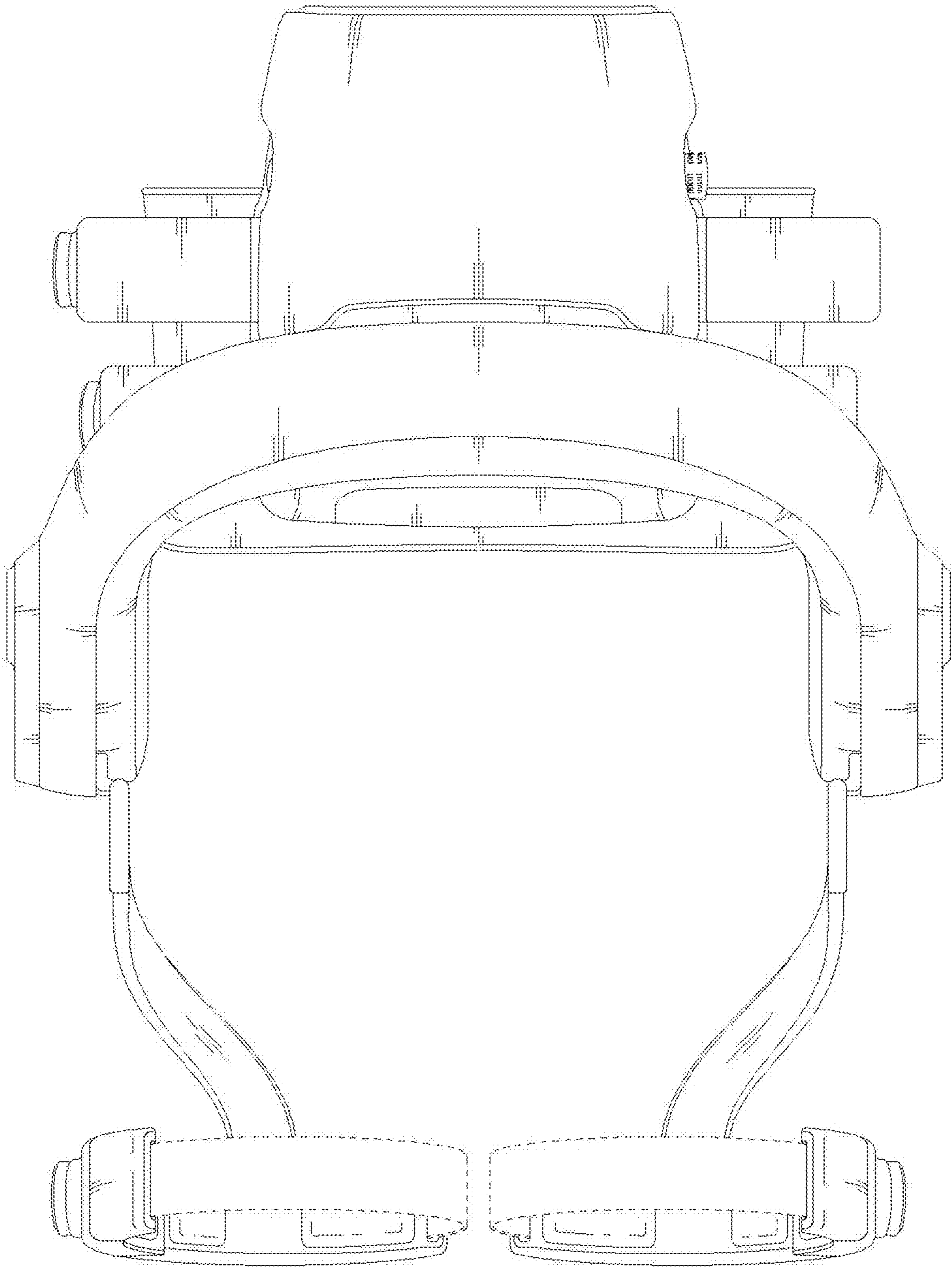
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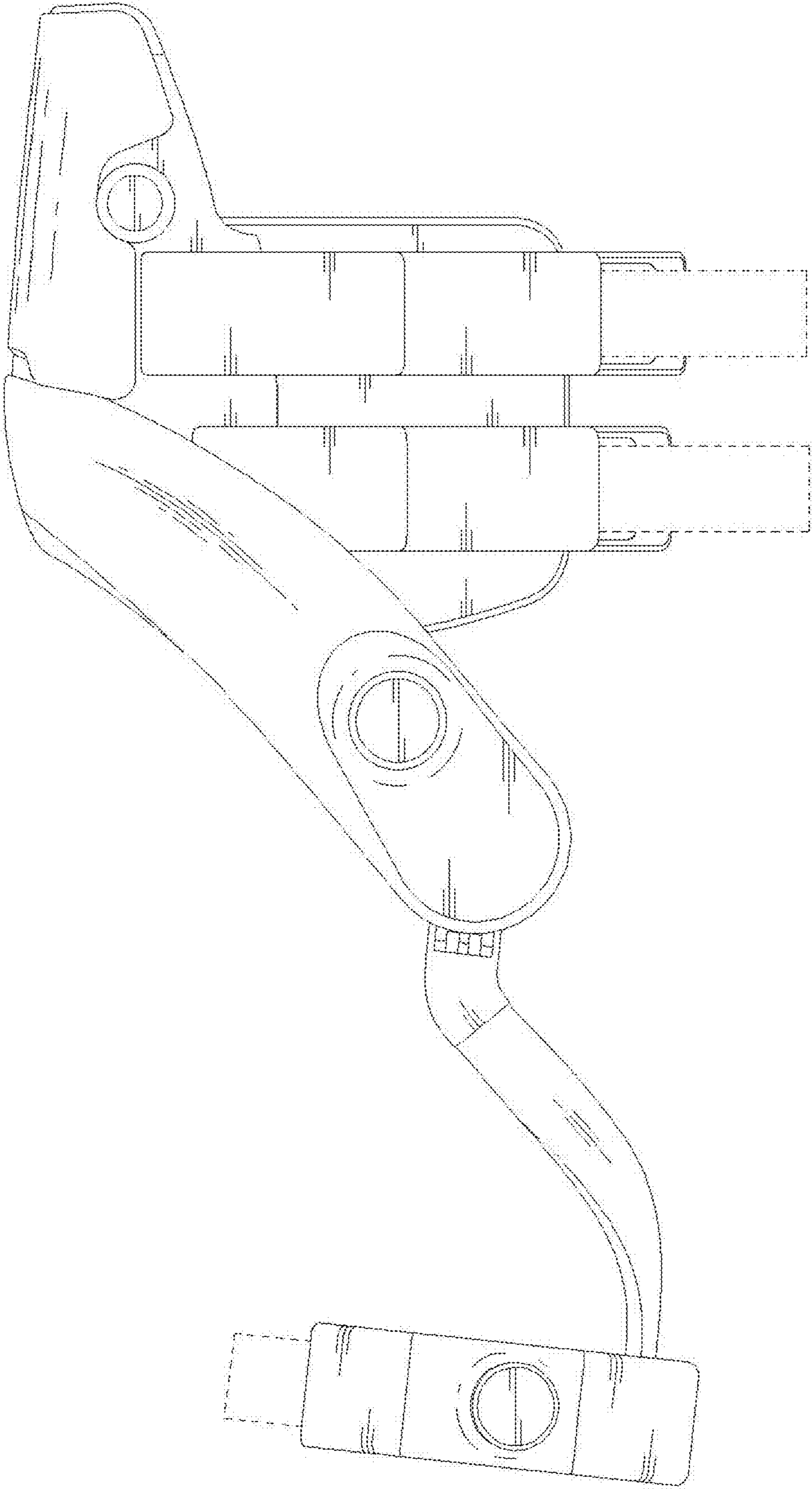
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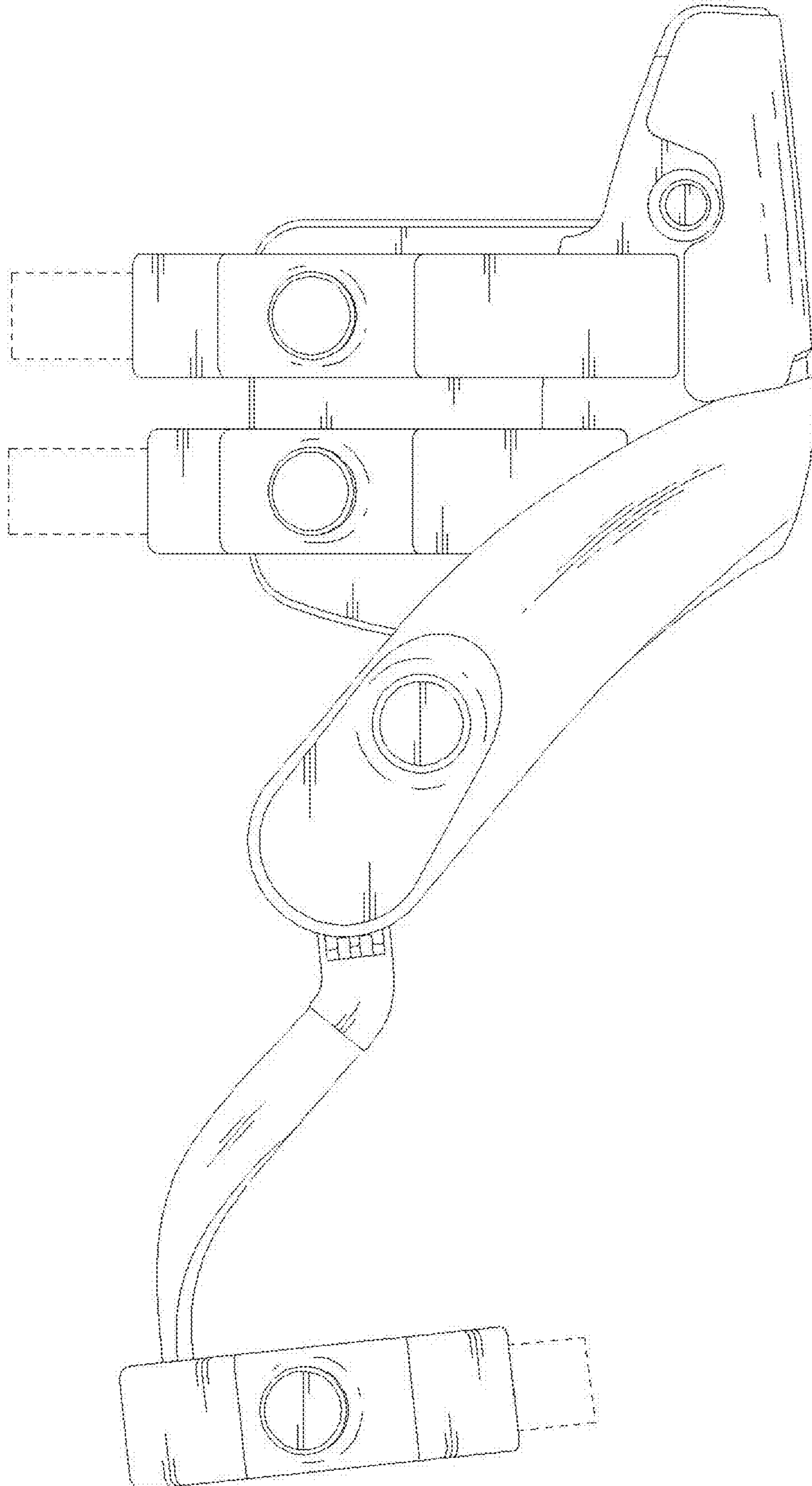
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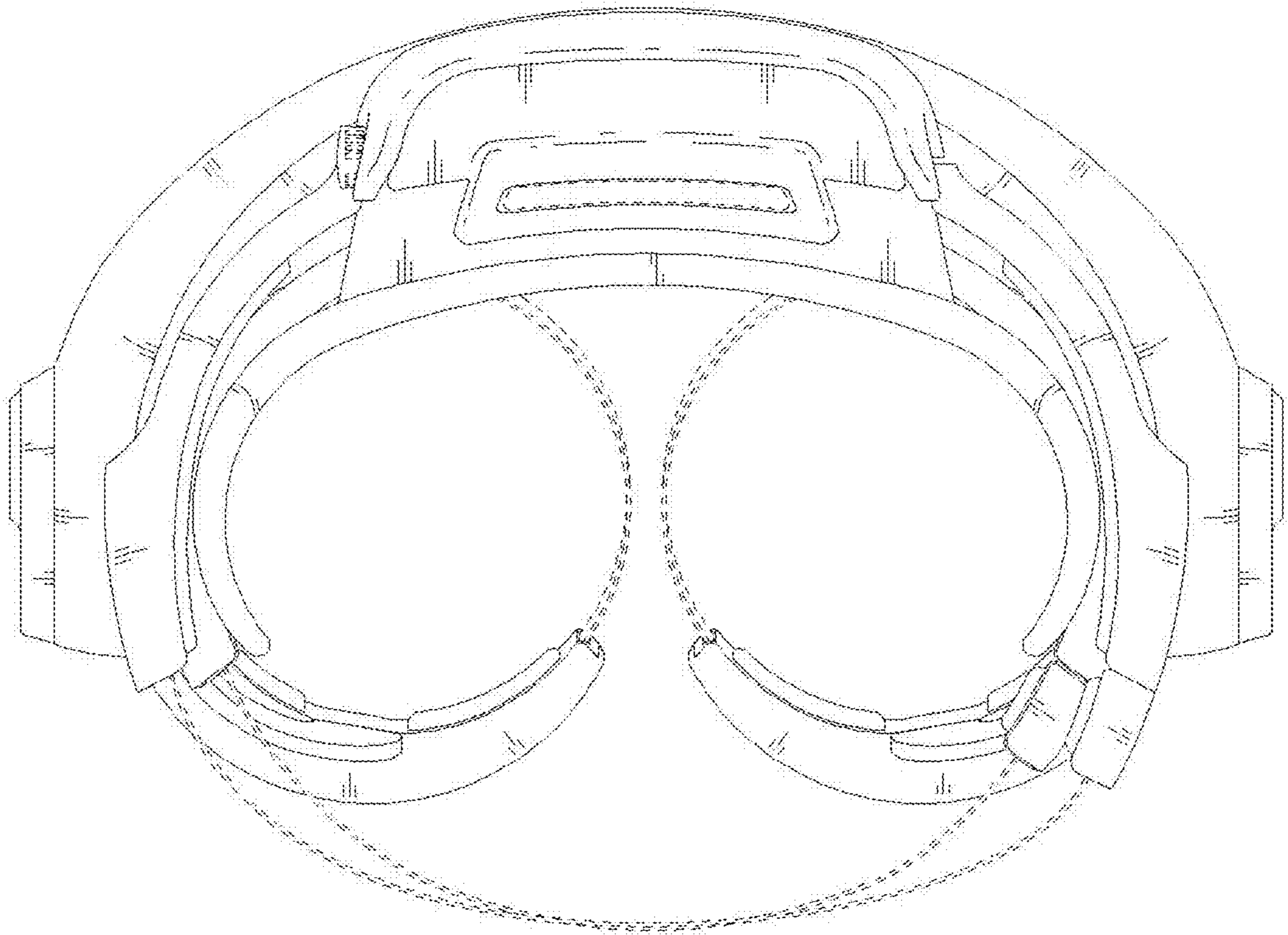
1.4



1.5



1.6



1.7

