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(12) **United States Design Patent** (10) **Patent No.:** **US D1,028,978 S**
Tian et al. (45) **Date of Patent:** **** May 28, 2024**

(54) **HEAD MOUNTED DISPLAY DEVICE**

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(73) Assignee: **Lenovo (Beijing) Limited**, Beijing (CN)

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(30) **Foreign Application Priority Data**

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(51) **LOC (14) Cl.** **14-02**

(52) **U.S. Cl.**
USPC **D14/372**

(58) **Field of Classification Search**

USPC D14/372, 496, 432, 371, 125, 126, 129, D14/299; D16/300-342; 351/158, 153, 351/144; 345/7-9, 905; 455/344; 348/115, 53, 121, 739

CPC G02B 27/017; G02B 27/0158; G02B 27/0161; G02B 27/0181; G02B 27/0185; G02B 27/0189

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

D660,341 S * 5/2012 Olsson D16/335
D710,928 S * 8/2014 Heinrich D16/300

D719,568 S * 12/2014 Heinrich D14/372
D719,570 S * 12/2014 Heinrich D14/372
D725,105 S * 3/2015 Olsson D14/372
D745,007 S * 12/2015 Cazalet D14/372
D749,074 S * 2/2016 Cazalet D14/372
D757,006 S * 5/2016 Cazalet D14/372
D762,643 S * 8/2016 Cazalet D14/372
D769,873 S * 10/2016 Cazalet D14/372
10,627,633 B2 * 4/2020 Liao G02C 5/22
D888,053 S * 6/2020 Rao D14/372
D900,093 S * 10/2020 Lee D14/372
D918,902 S * 5/2021 Ko D14/372
D923,006 S * 6/2021 Villalpando D14/372
D942,450 S * 2/2022 Hu D14/372
D947,186 S * 3/2022 Osterhout D14/372
D985,562 S * 5/2023 Kim D14/372
D985,564 S * 5/2023 Kim D14/372

(Continued)

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(57) **CLAIM**

The ornamental design for a head mounted display device, as shown and described.

DESCRIPTION

1. Head mounted display device

1.1 : Front

1.2 : Back

1.3 : Left

1.4 : Right

1.5 : Top

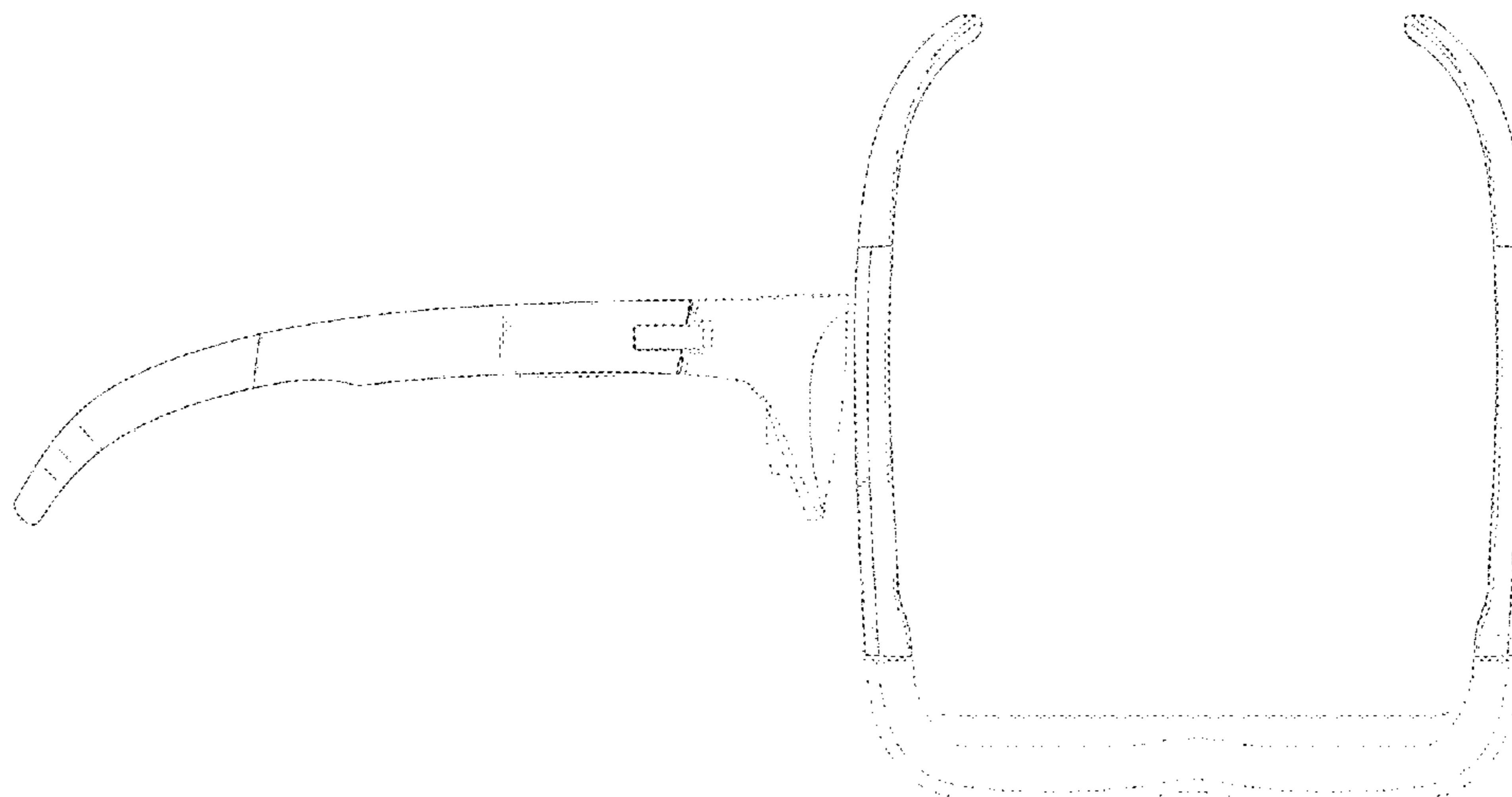
1.6 : Bottom

1.7 : Front perspective view

1.8 : Back perspective view

The broken lines shown in the drawings illustrate portions of the head mounted display device that form no part of the claimed design.

1 Claim, 8 Drawing Sheets



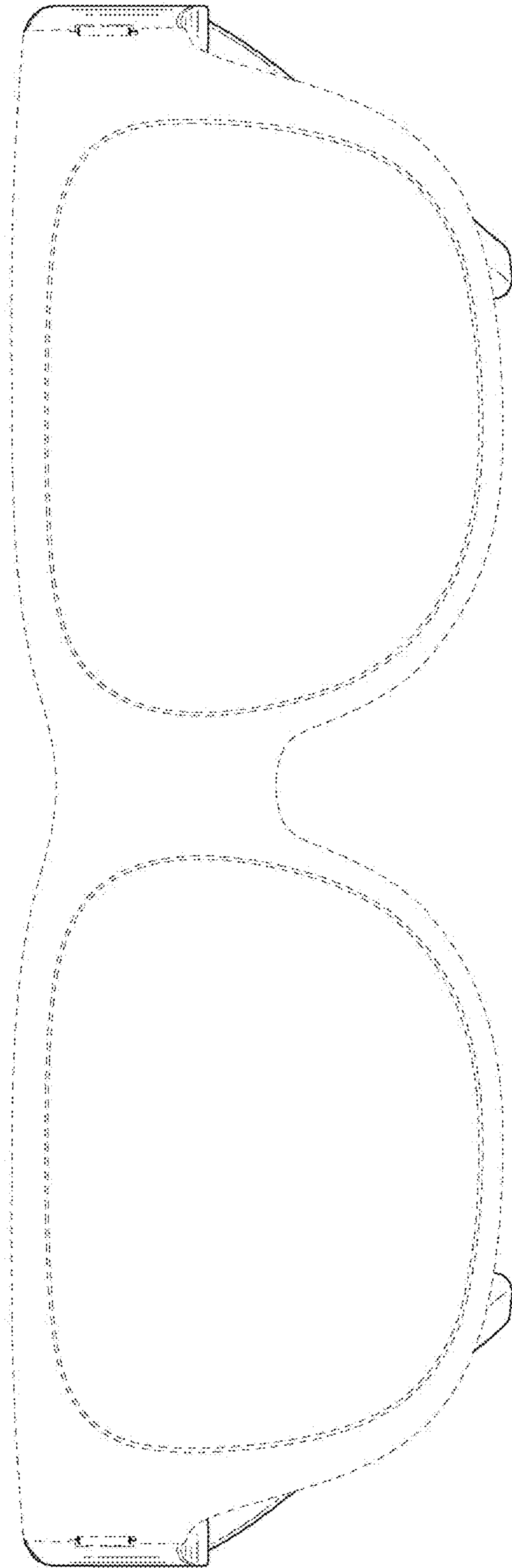
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References Cited

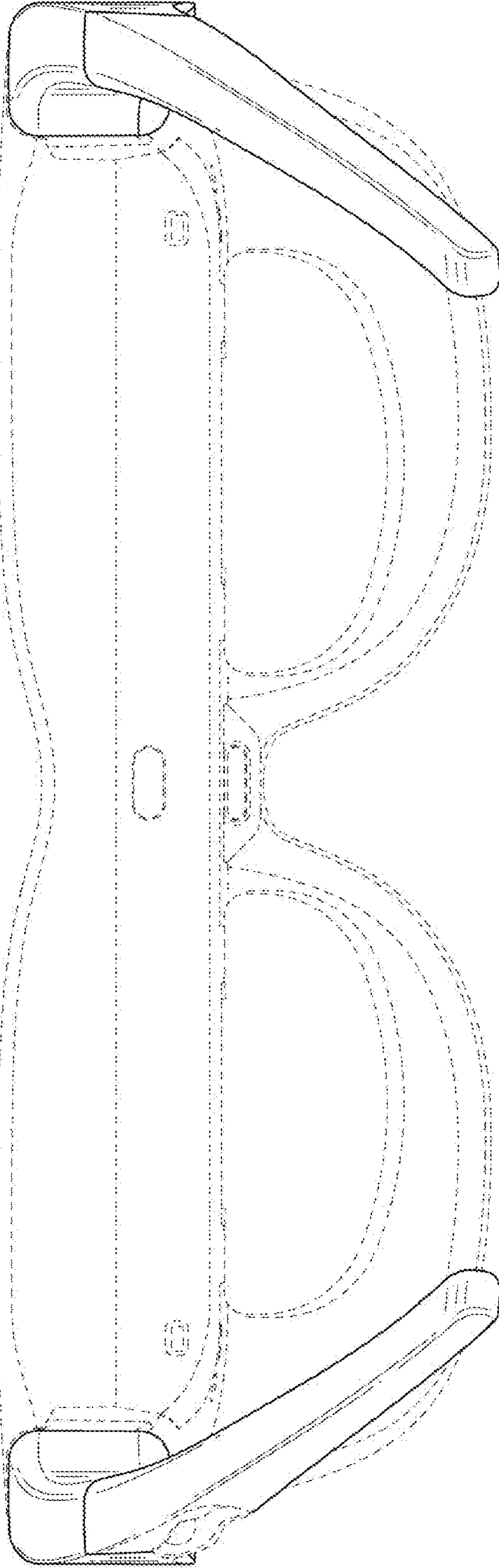
U.S. PATENT DOCUMENTS

D989,851 S * 6/2023 Chen D14/372
2021/0088810 A1 * 3/2021 Adams G01S 13/08

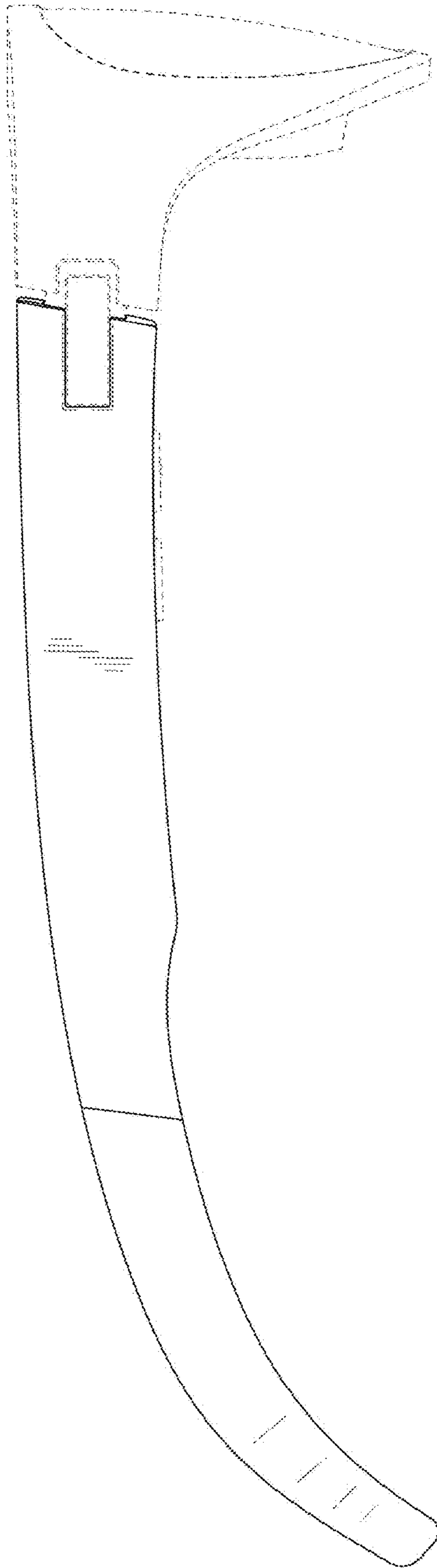
* cited by examiner



1.1

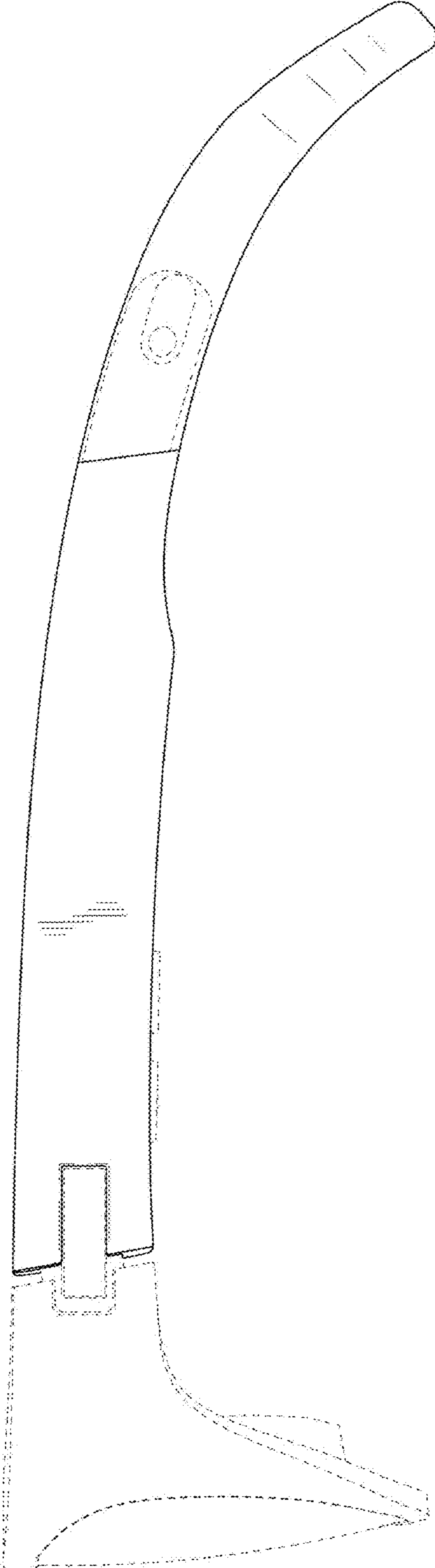


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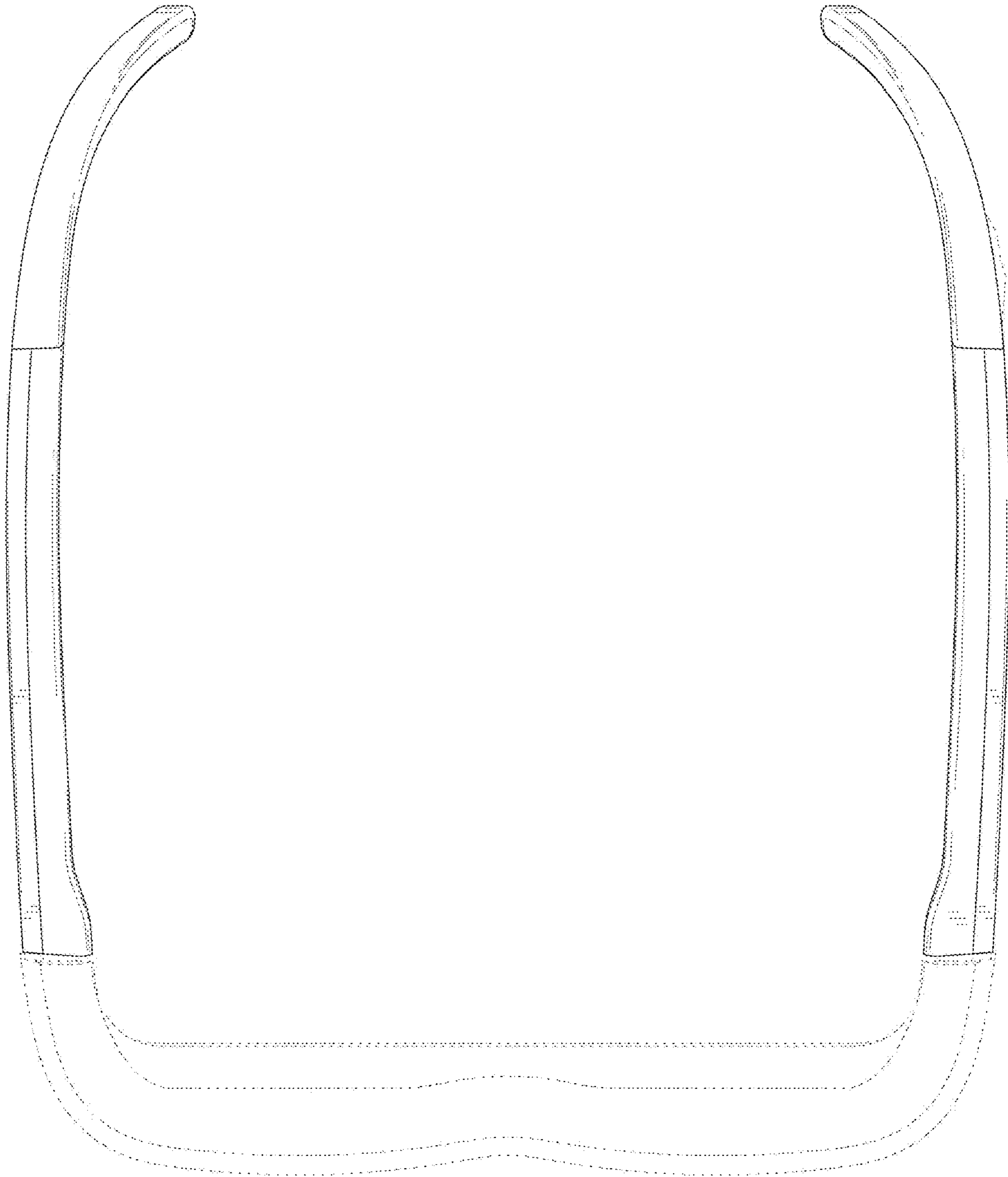


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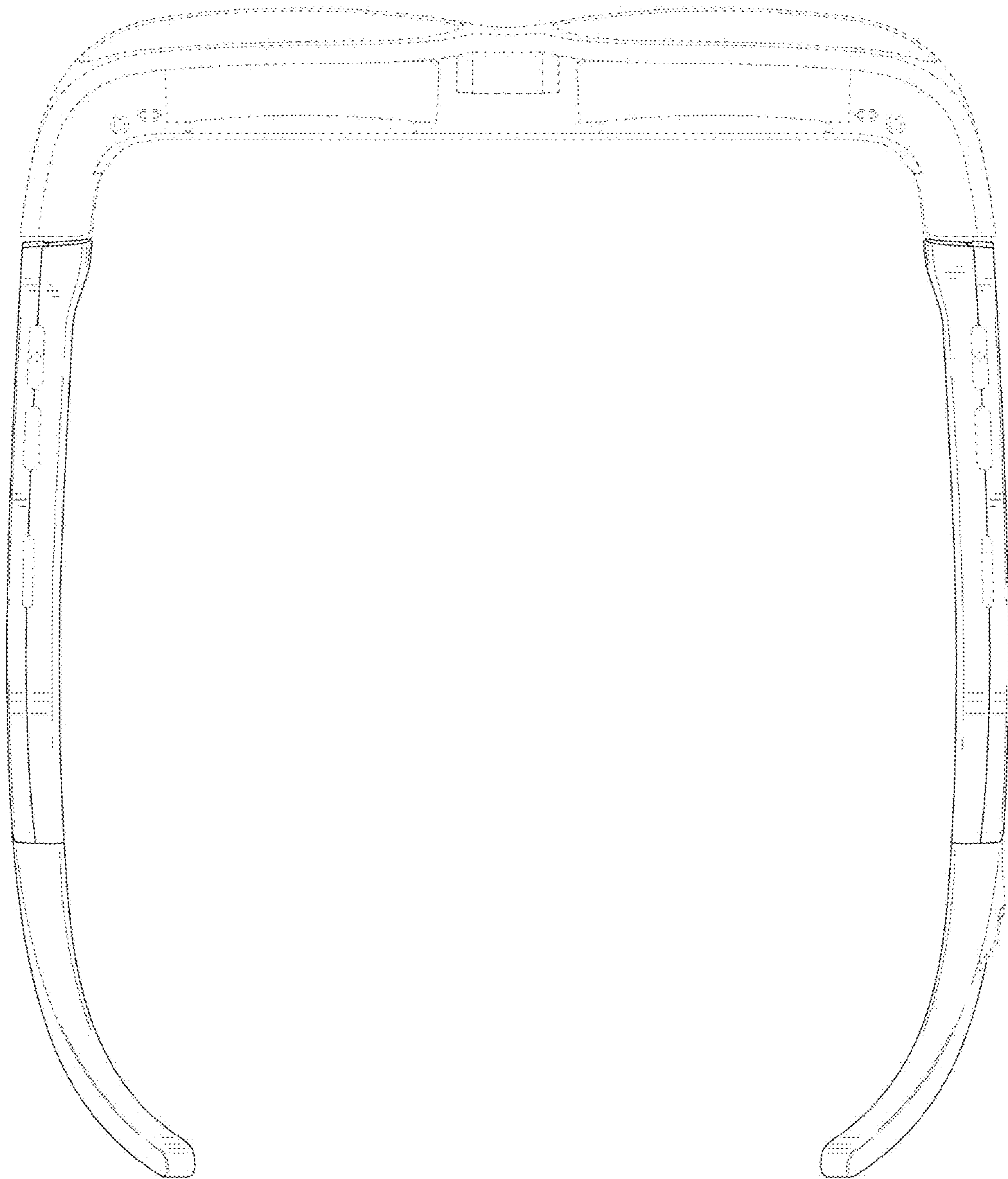
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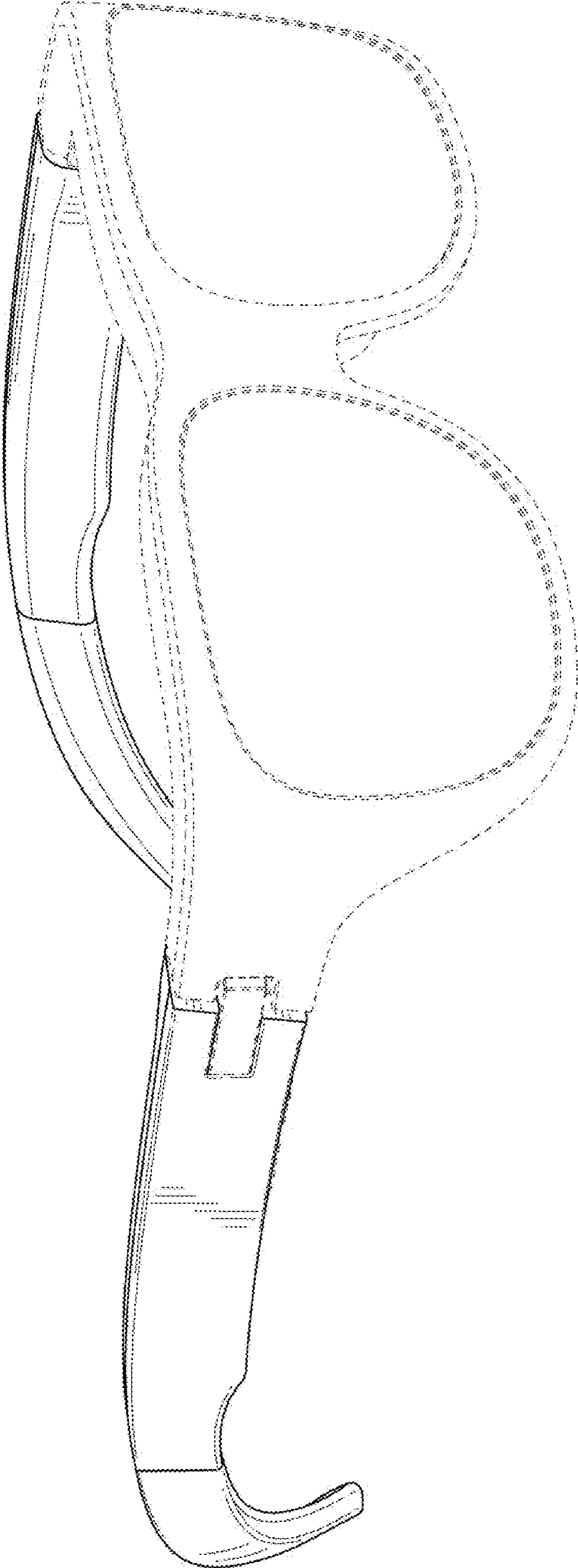


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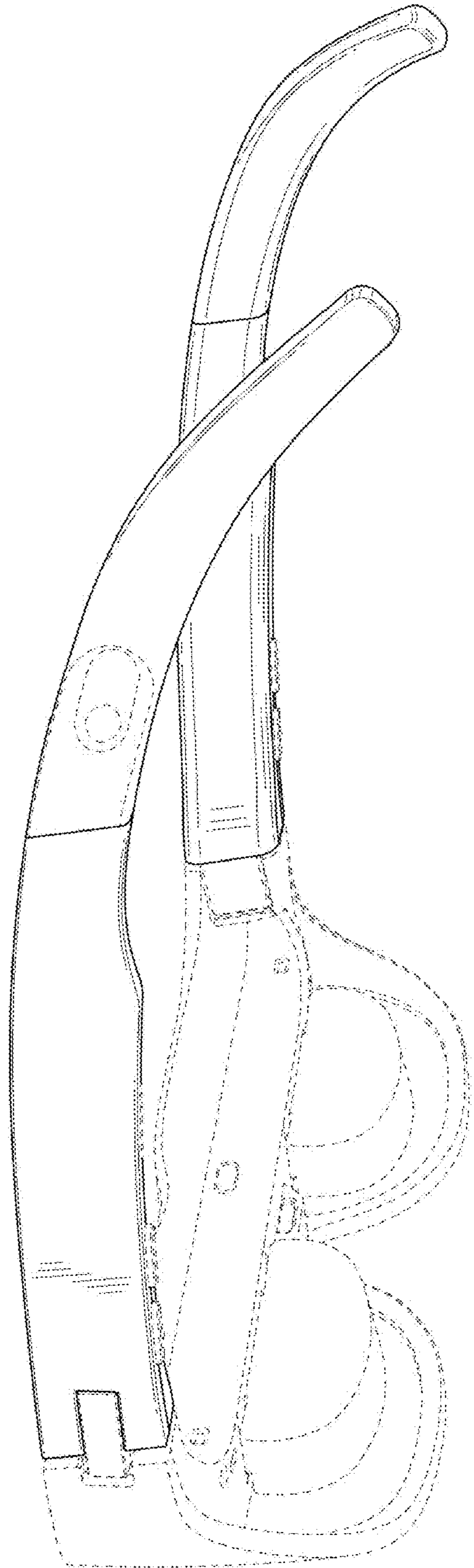


1.6





1.7



1.8