



US00D994127S

(12) **United States Design Patent** (10) **Patent No.:** **US D994,127 S**
Karten et al. (45) **Date of Patent:** **** Aug. 1, 2023**

(54) **CHEST STRAP FOR EXTRACORPOREAL MEDICAL UNIT**

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(73) Assignee: **Neuroloop GmbH**, Freiburg (DE)

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

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(80) **Hague Agreement Data**

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(51) **LOC (14) Cl.** **24-02**

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

(58) **Field of Classification Search**

USPC D24/110, 164, 190, 200, 210, 211, 215,
D24/216, 188

CPC A61H 23/02; A61H 2015/0014; A61M
31/007

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

2,539,677 A * 1/1951 Teare A61F 5/3738
D24/190

2,549,703 A * 4/1951 New A61F 5/05808
D24/190

(Continued)

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(74) *Attorney, Agent, or Firm* — Fitch, Even, Tabin & Flannery, LLP

(57) **CLAIM**

The ornamental design for a chest strap for extracorporeal medical unit, as shown and described.

DESCRIPTION

The patent or application file contains at least one drawing executed in color. Copies of this patent or patent application publication with color drawing(s) will be provided by the Office upon request and payment of the necessary fee.

1. Chest strap for extracorporeal medical unit

2. Chest strap for extracorporeal medical unit

3. Chest strap for extracorporeal medical unit

4. Chest strap for extracorporeal medical unit

1.1 : Exploded/detached top plan view

1.2: Exploded/detached front side view

1.3: Exploded/detached bottom plan view

1.4 : Top plan view

1.5 : Front side view

1.6 : Chest strap for extracorporeal medical unit from front of user

1.7 : Chest strap for extracorporeal medical unit from rear of user

2.1 : Exploded/detached top plan view

2.2 : Exploded/detached front side view

2.3 : Exploded/detached bottom plan view

2.4 : Chest strap for extracorporeal medical unit from rear of user

3.1 : Exploded/detached top plan view

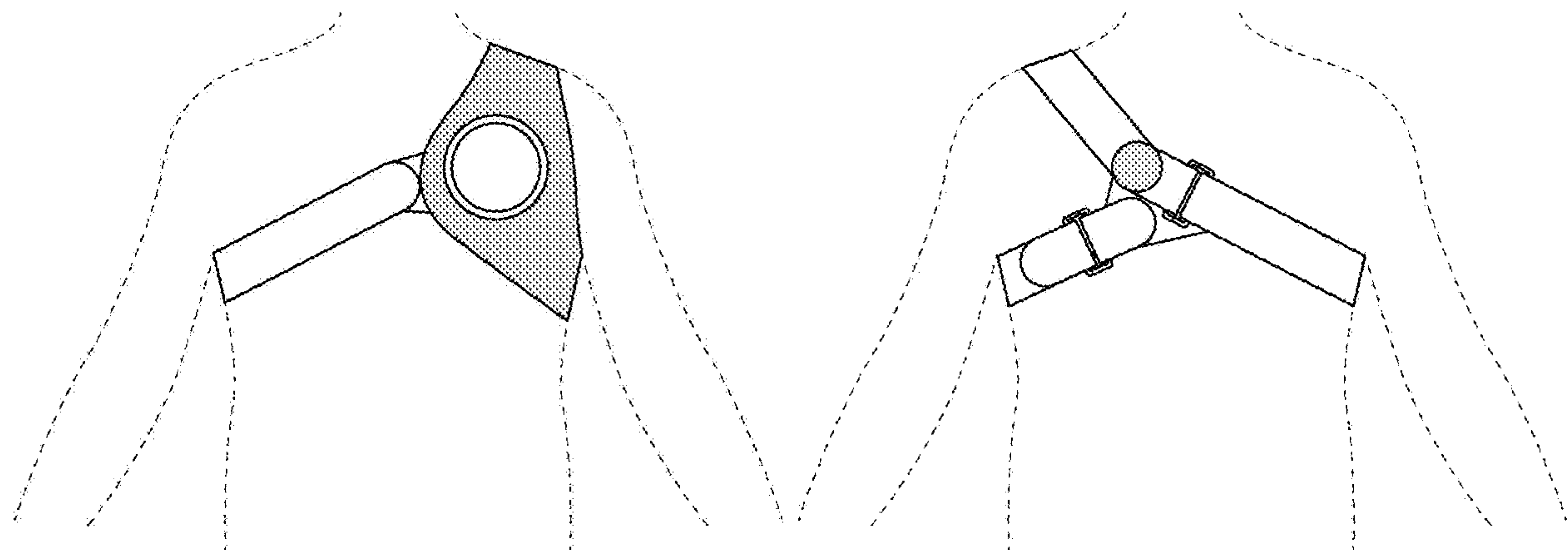
3.2 : Top plan view

3.3 : Chest strap for extracorporeal medical unit from front of user

3.4 : Chest strap for extracorporeal medical unit from rear of user

4 : Top plan view

The broken lines in the reproductions depict unclaimed subject matter, which forms no part of the claimed design.



1 Claim, 16 Drawing Sheets
(5 of 16 Drawing Sheet(s) Filed in Color)

(56)

References Cited

U.S. PATENT DOCUMENTS

2,560,243 A *

7/1951 Peterson

A61F 5/3746

D24/190

2,859,746 A *

11/1958 Roberson

A61F 13/146

D24/190

4,598,703 A *

7/1986 Lindemann

A61F 5/3738

602/20

6,398,746 B2 *

6/2002 Bramlage

A61F 5/24

602/5

6,612,309 B1 *

9/2003 Ancona

A61M 16/0497

128/207.14

D504,517 S *

4/2005 Metcalfe

D24/188

D514,702 S *

2/2006 Metcalfe

D24/188

D515,786 S *

2/2006 Williamson

D24/110.5

D525,364 S *

7/2006 Burgueno

D24/188

D532,511 S *

11/2006 Amarasinghe

D24/110.1

D532,512 S *

11/2006 Amarasinghe

D24/110.1

D536,092 S *

1/2007 Amarasinghe

D24/110.1

D540,940 S *

4/2007 Amarasinghe

D24/110.1

7,320,669 B2 *

1/2008 Campbell

A61F 5/3723

602/5

D561,332 S *

2/2008 Amarasinghe

D24/110.1

D605,776 S *

12/2009 Weber

D24/190

D612,507 S *

3/2010 Arbesman

D24/190

D617,445 S *

6/2010 Samaras

D24/110.1

D617,446 S *

6/2010 Amarasinghe

D24/110.1

D626,245 S *

10/2010 Sagnip

D24/190

D646,779 S *

10/2011 Persson

D24/110

D649,655 S *

11/2011 Petersen

D24/215

D650,895 S *

12/2011 Amarasinghe

D24/110.1

D651,303 S *

12/2011 Gunaratnam

D24/110

D652,504 S *

1/2012 Amarasinghe

D24/110.1

D652,912 S *

1/2012 Amarasinghe

D24/110.1

D663,413 S *

7/2012 Amarasinghe

D24/110.1

D696,407 S *

12/2013 Herman

D24/188

D713,044 S *

9/2014 Eriksson

D24/190

D713,045 S *

9/2014 Eriksson

D24/190

D713,046 S *

9/2014 Eriksson

D24/190

D713,047 S *

9/2014 Eriksson

D24/190

D755,981 S *

5/2016 Shamaingar

D24/190

D768,956 S *

10/2016 Jirsa

D24/190

D779,067 S *

2/2017 Embleton

D24/190

D871,597 S *

12/2019 Blake

D24/200

D879,981 S *

3/2020 Wennen

D24/200

D882,099 S *

4/2020 Zhu

D24/190

D882,804 S *

4/2020 Matsuura

D24/190

D965,154 S *

9/2022 Zhang

D29/101.3

D966,529 S *

10/2022 Lakkireddy

D24/190

D973,889 S *

12/2022 Papp

D24/190

D977,656 S *

2/2023 Yamazaki

D24/200

D979,770 S *

2/2023 Pan

D24/190

2008/0208092 A1 *

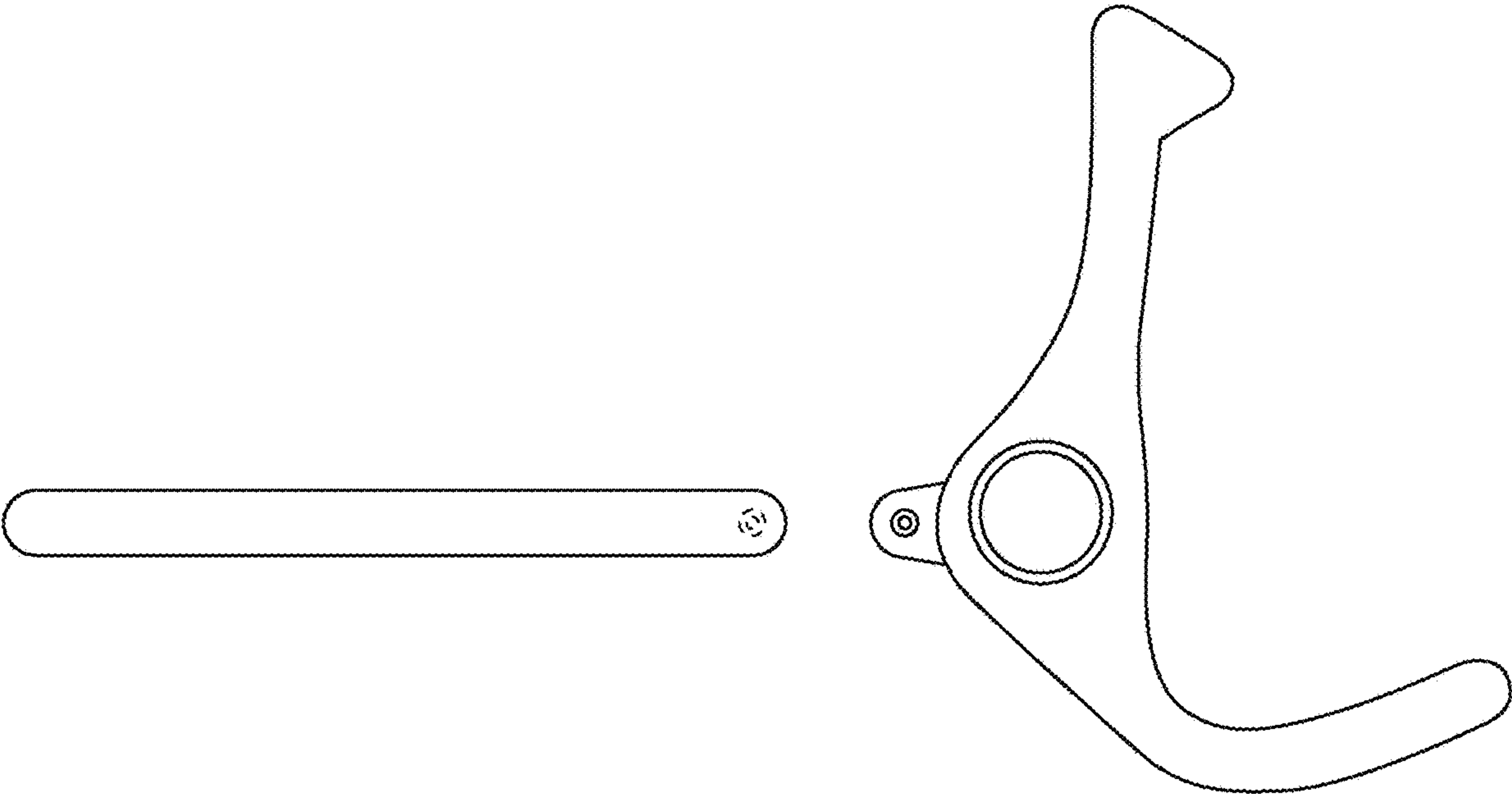
8/2008 Sawa

A61F 5/3738

602/19

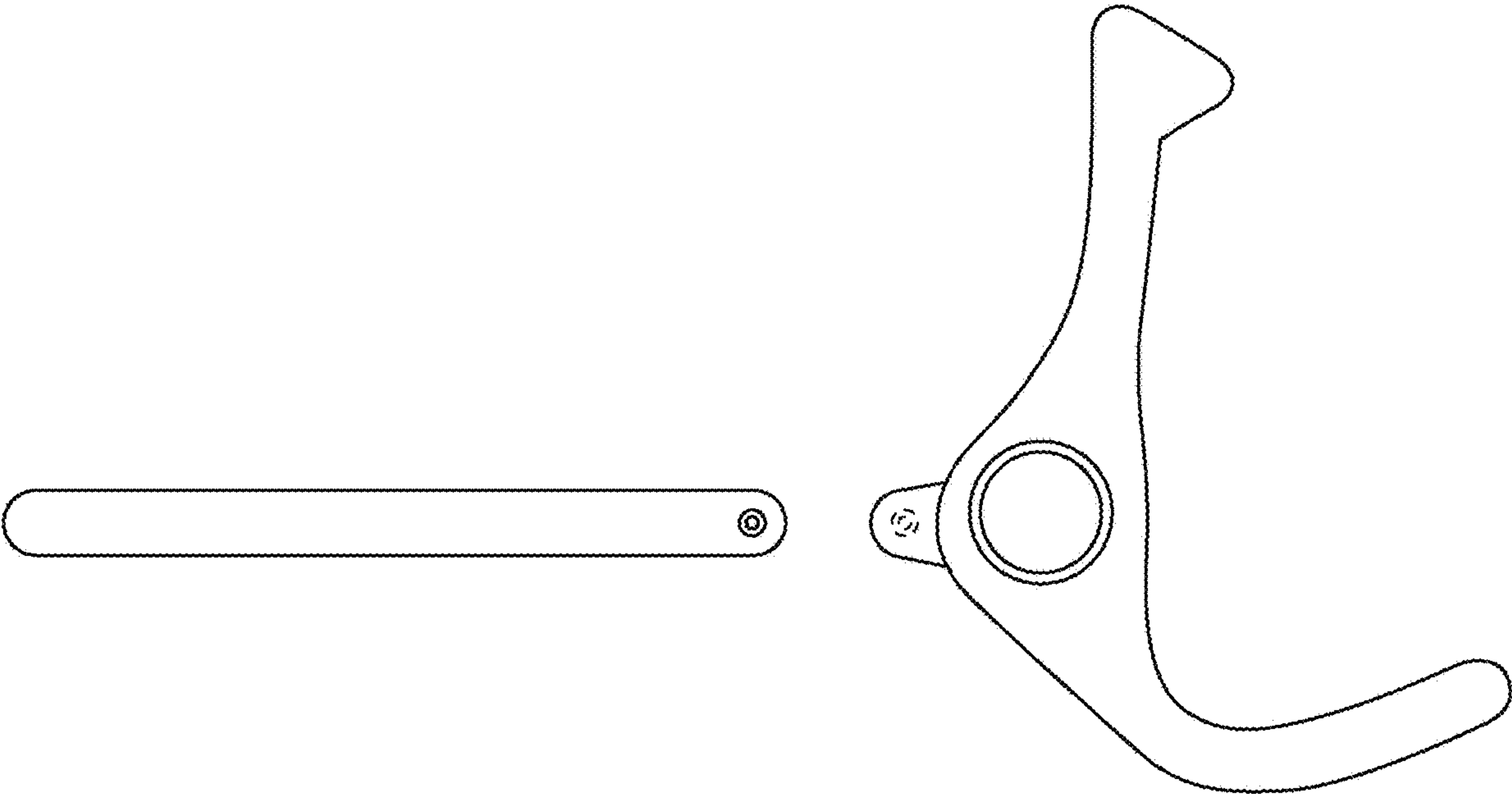
* cited by examiner

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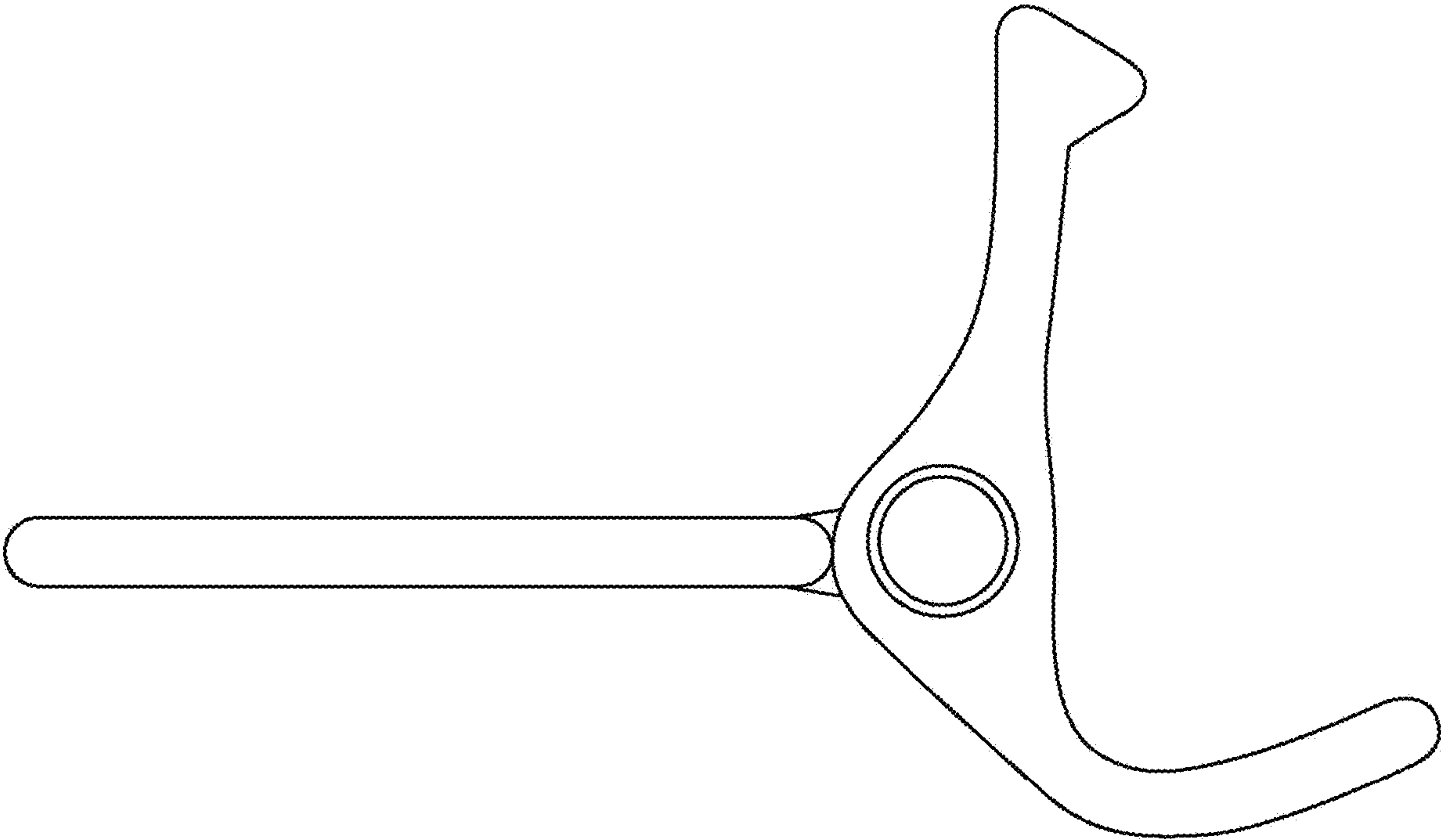




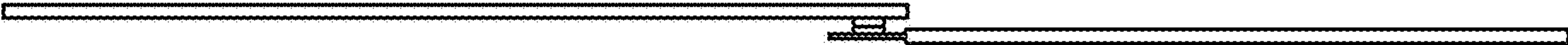
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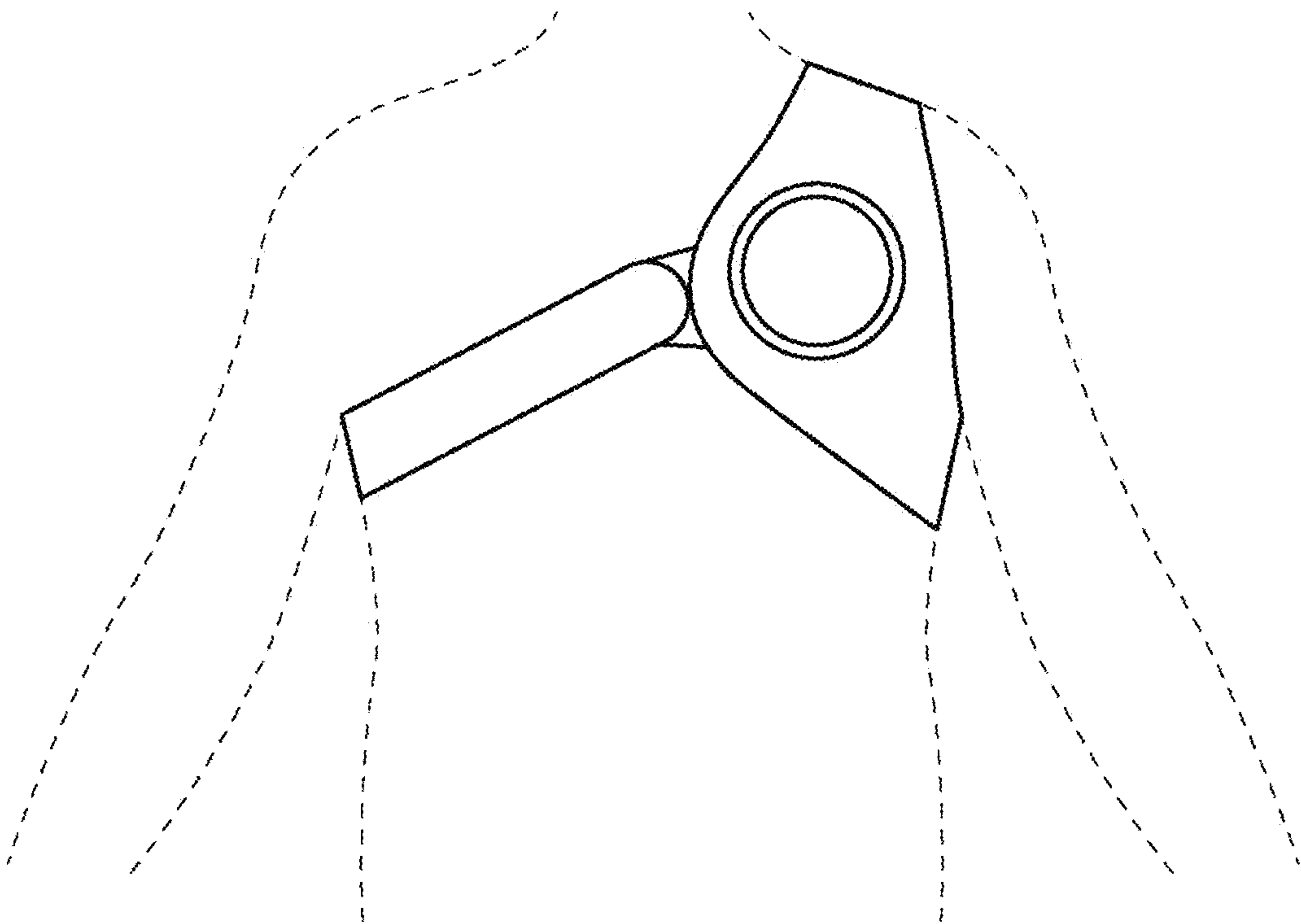
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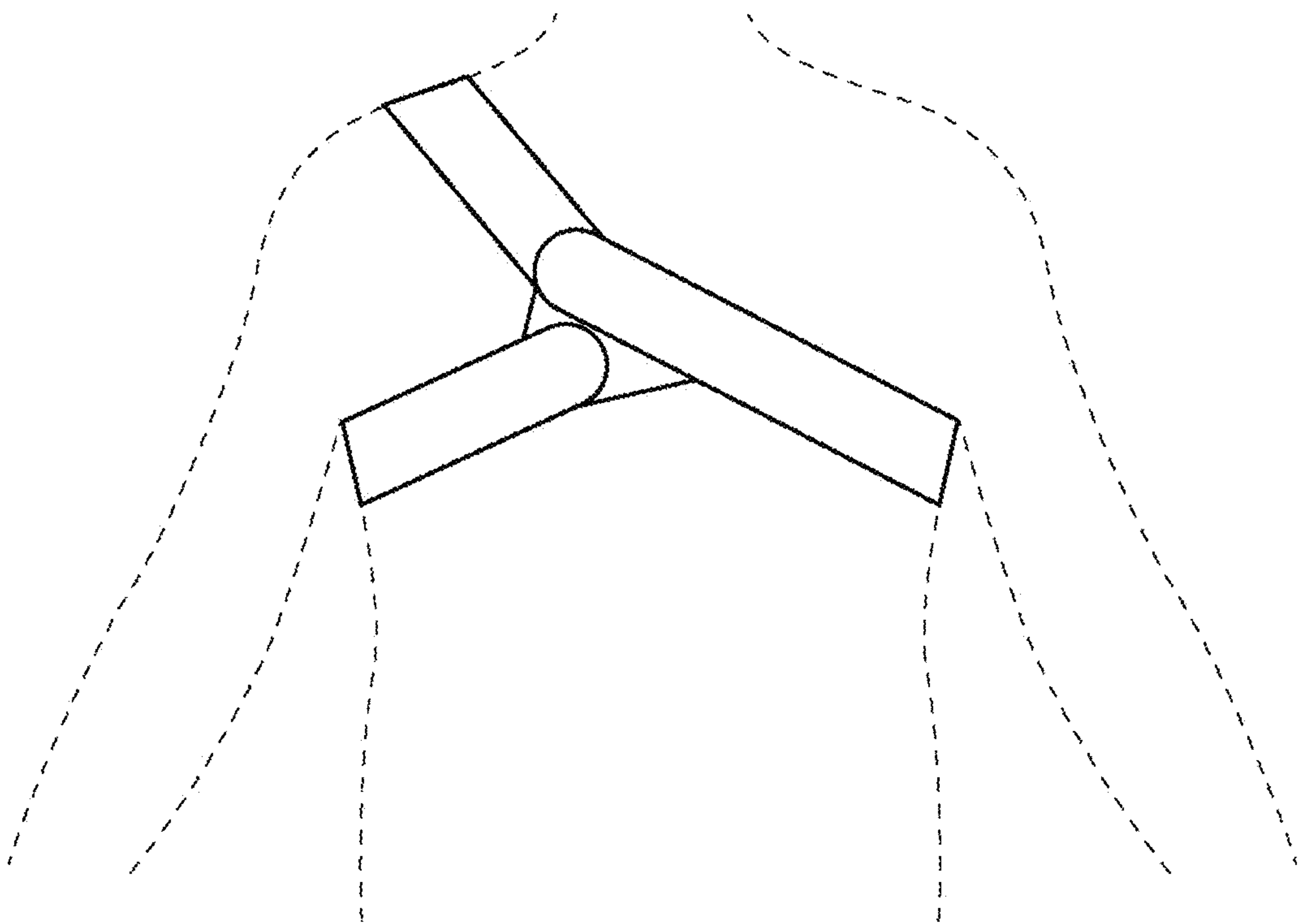
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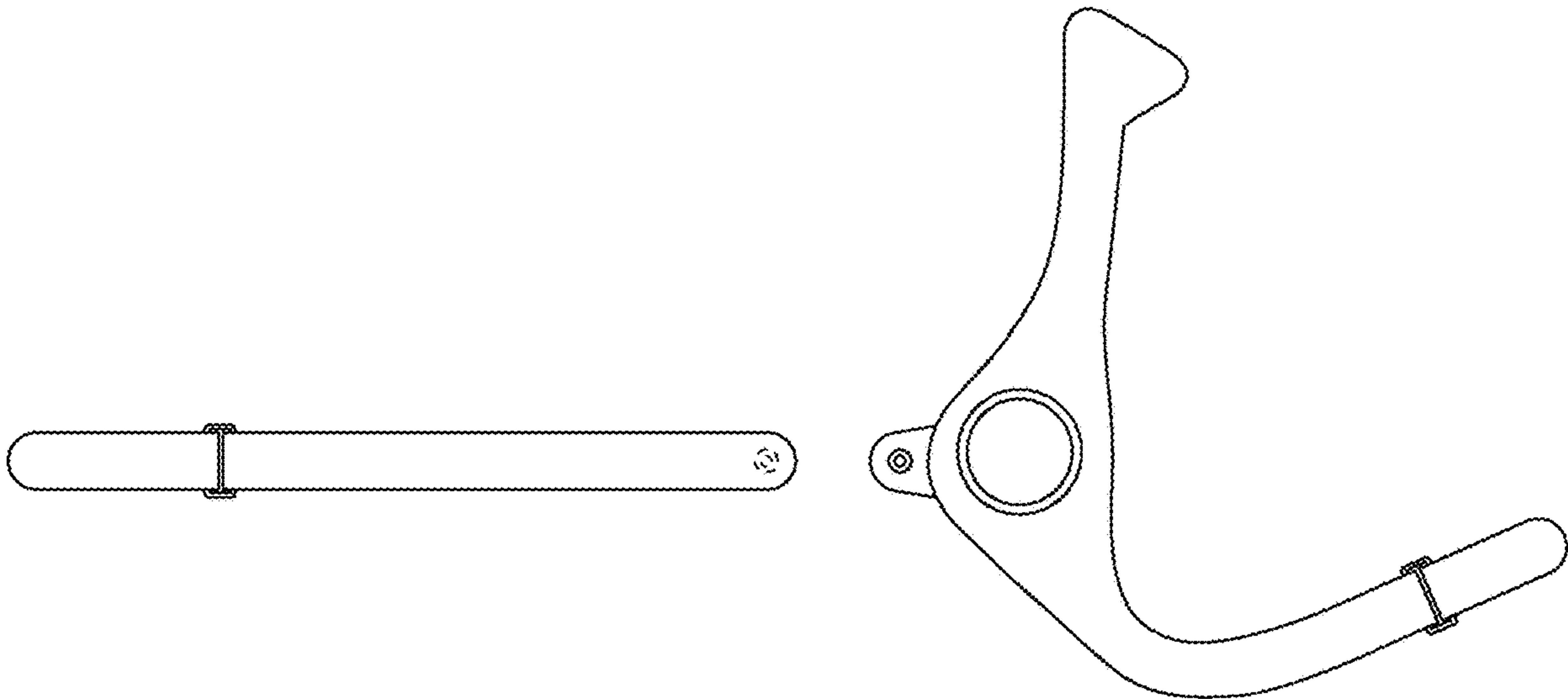
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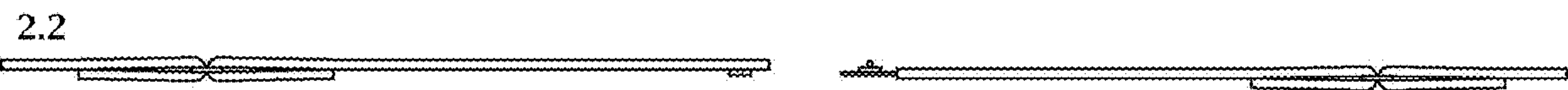


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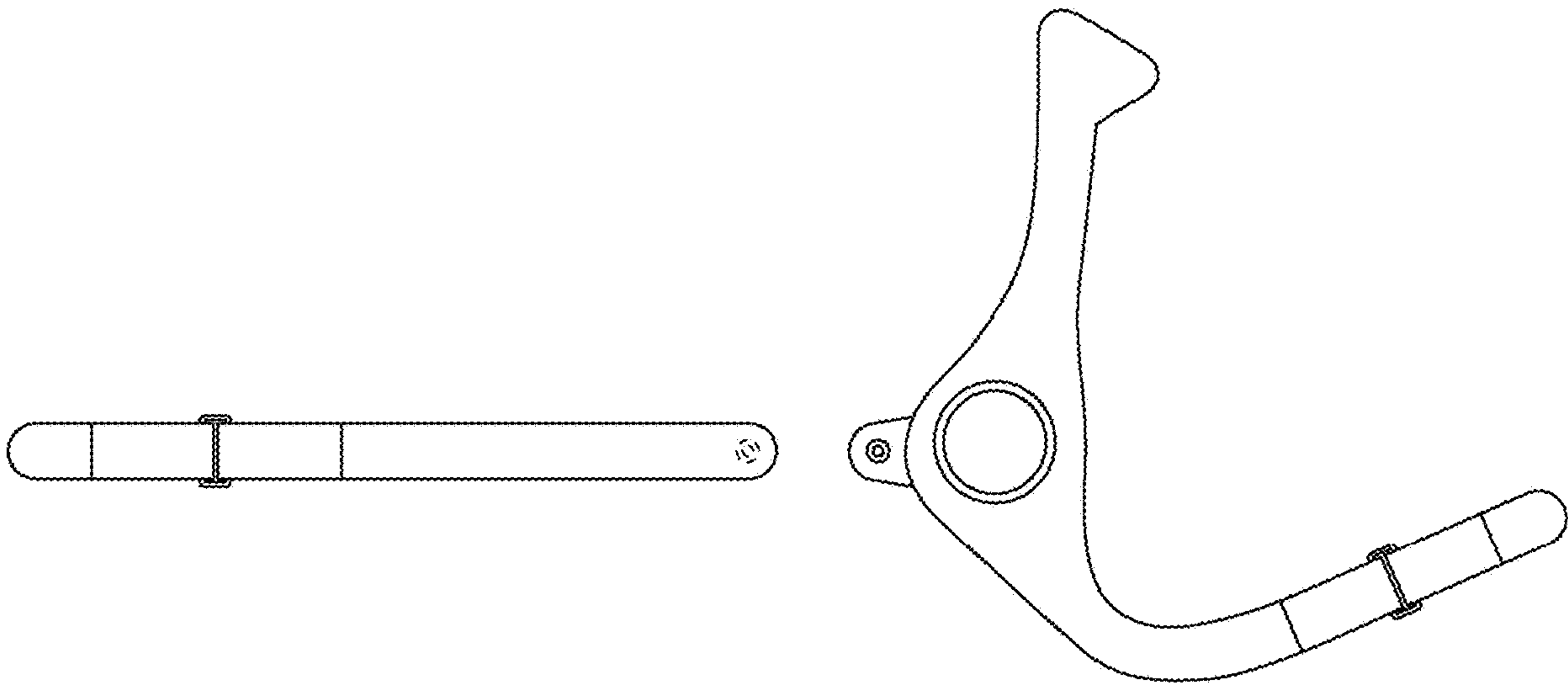


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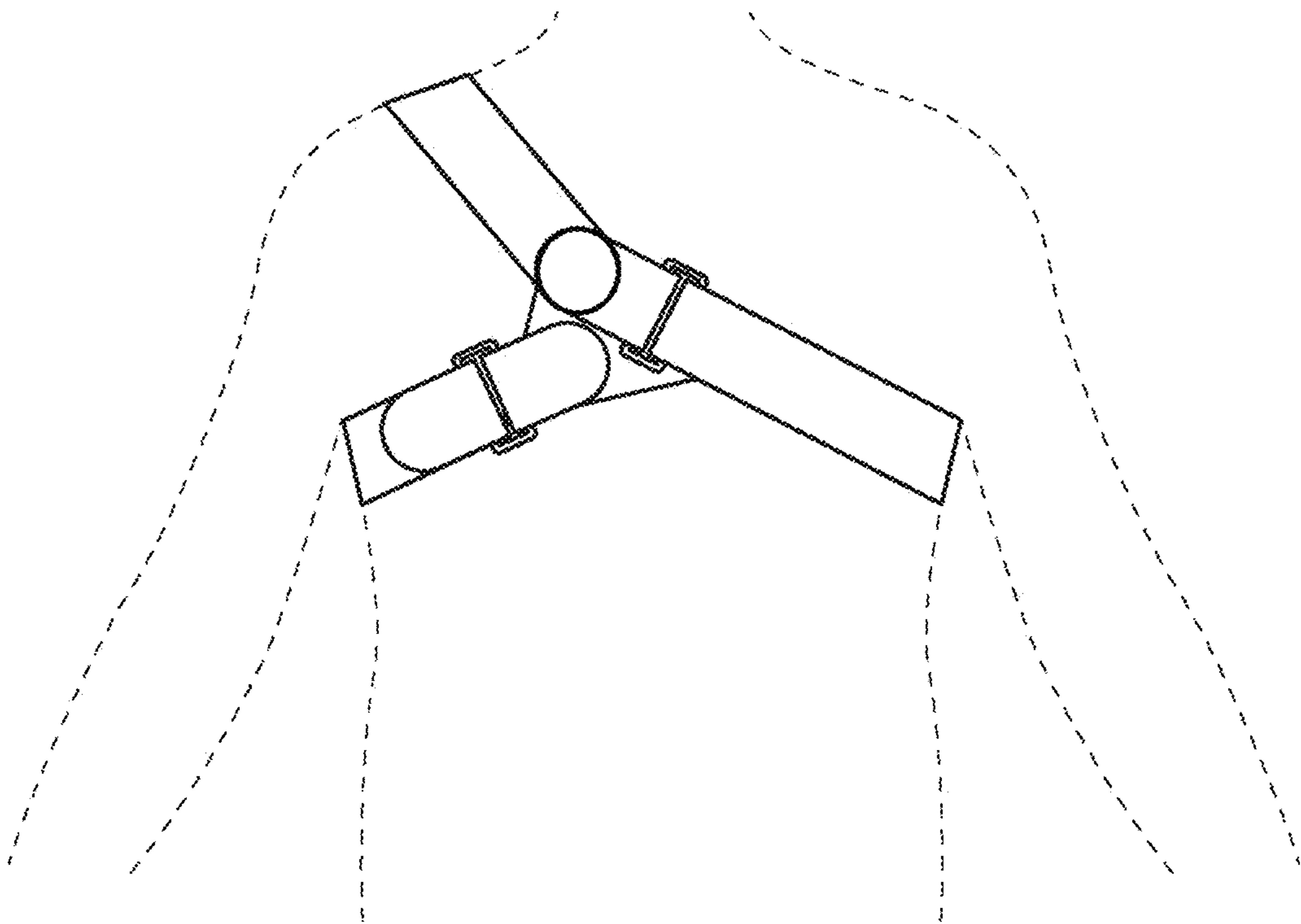




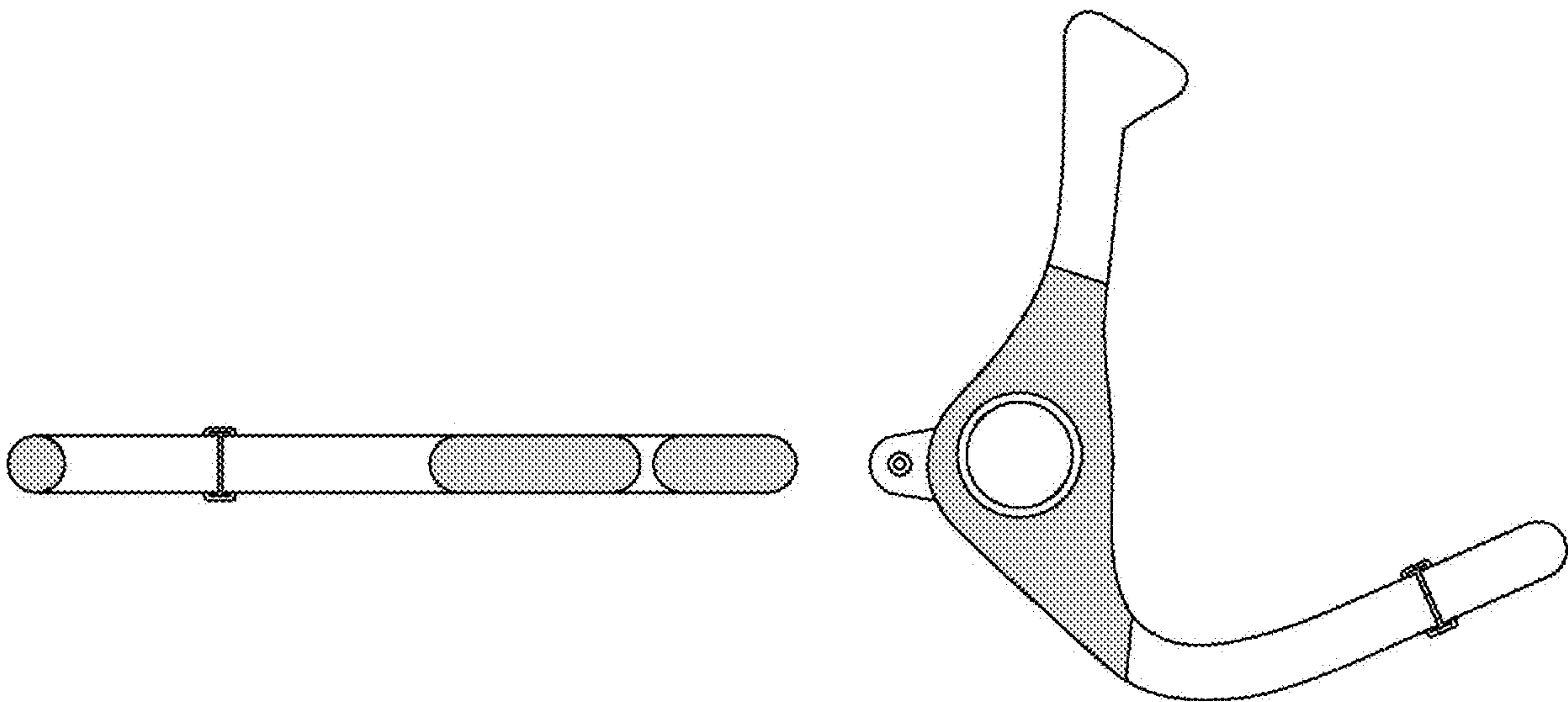
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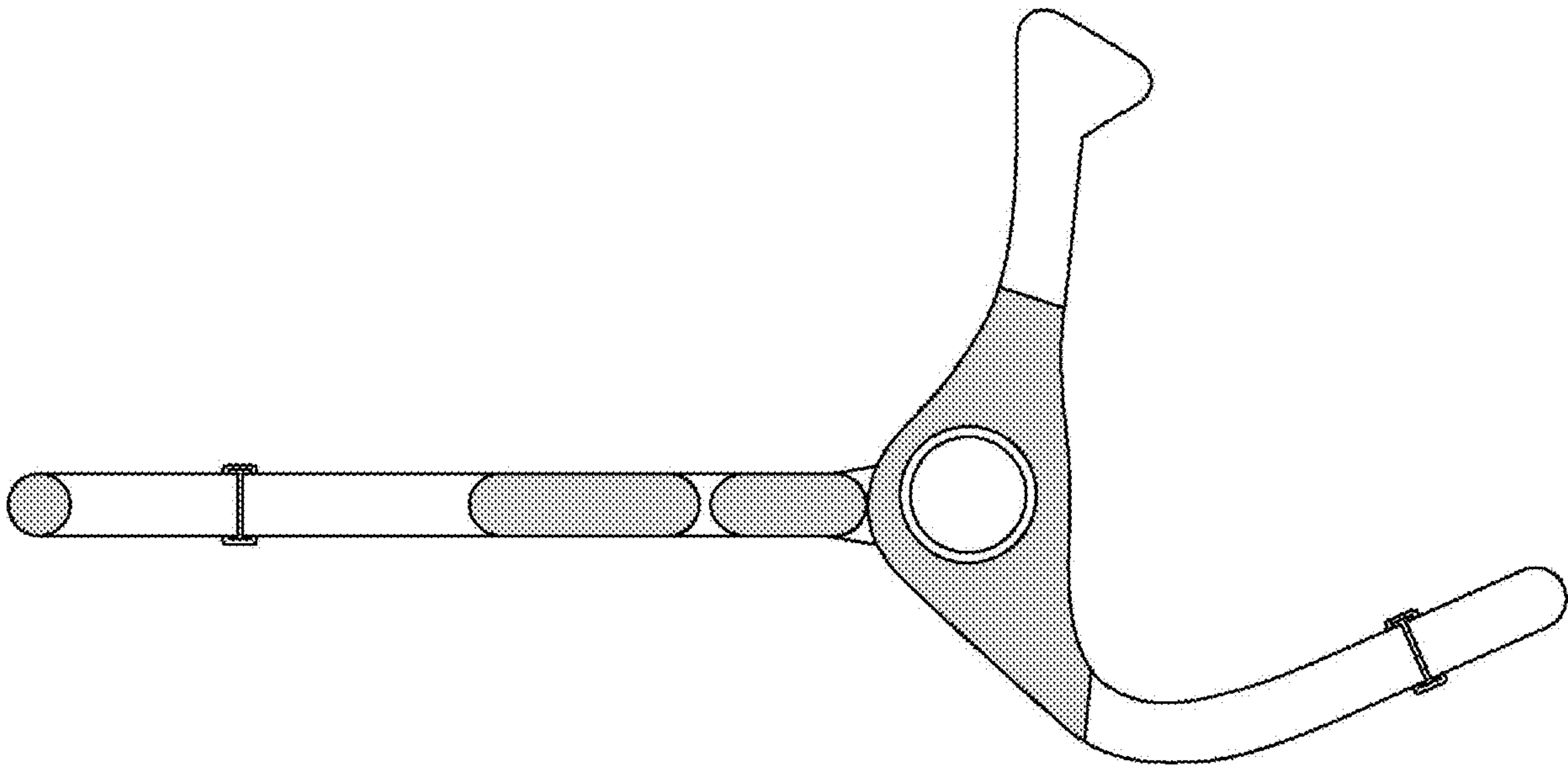
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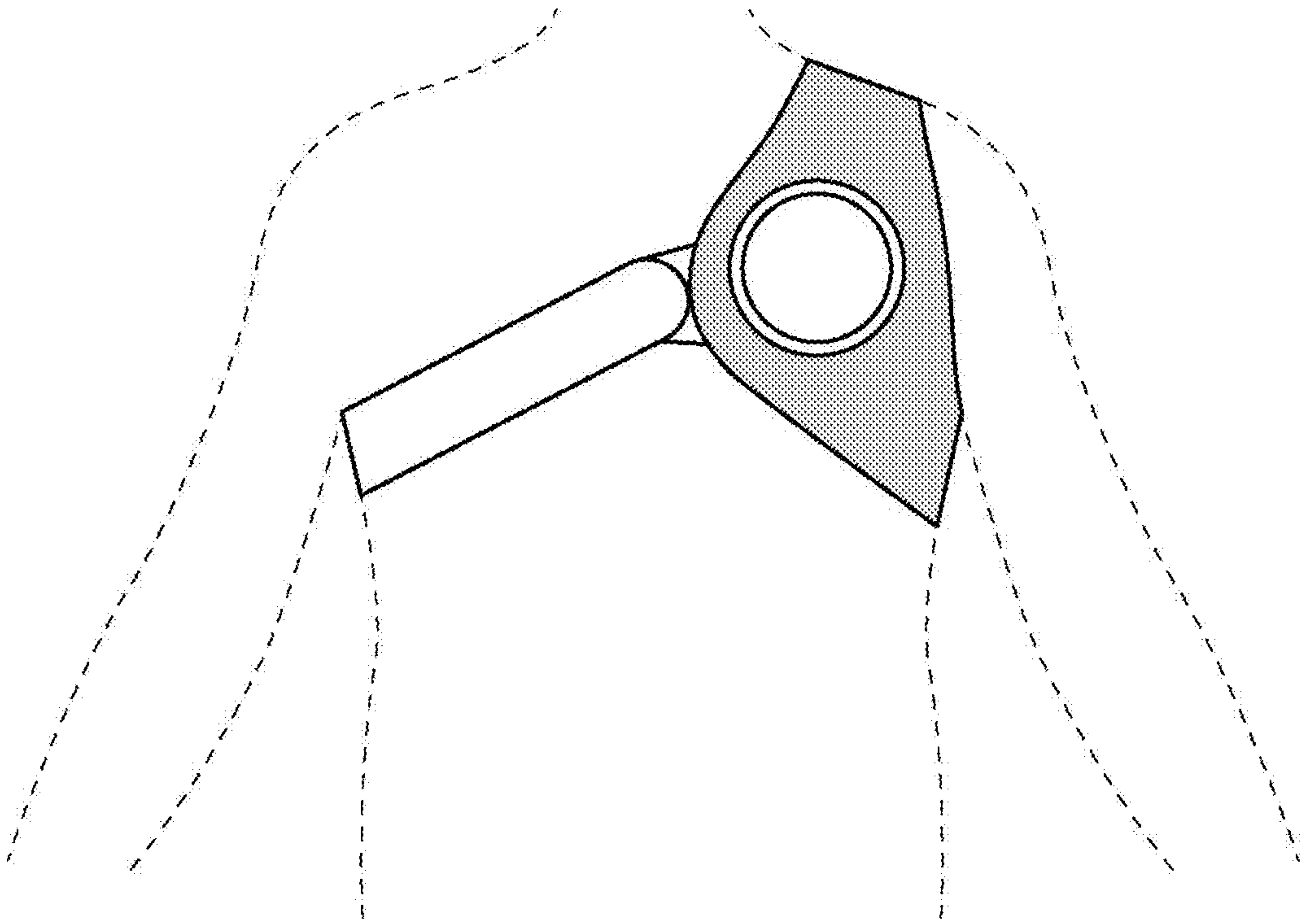
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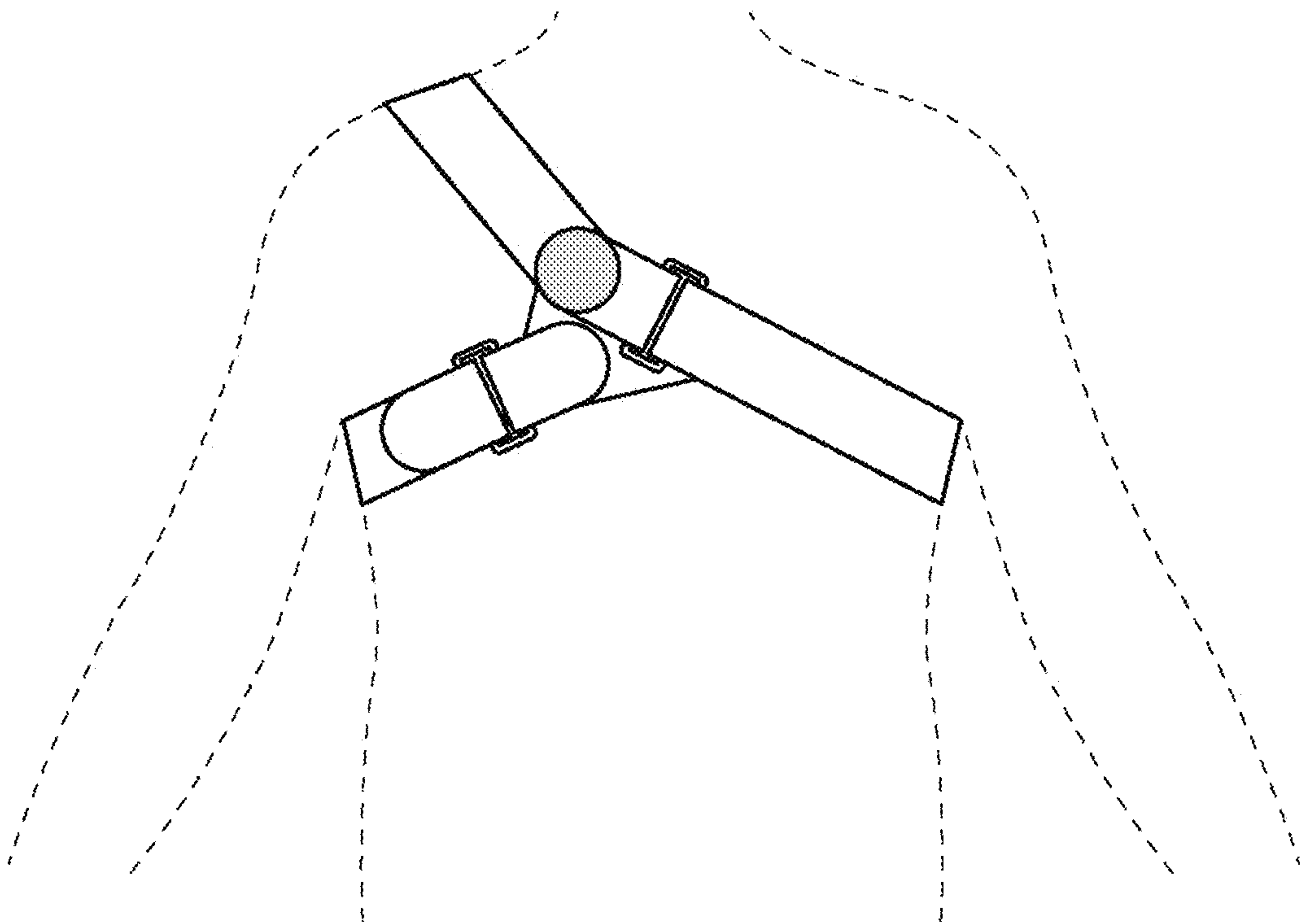
3.2



3.3



3.4



4

