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(12) **United States Design Patent** (10) **Patent No.:** **US D970,012 S**
Yukita et al. (45) **Date of Patent:** **** Nov. 15, 2022**

(54) ORAL SLEEP APNEA APPLIANCE	7,832,404 B2 * 11/2010 Jansheski A61F 5/566 128/859
(71) Applicant: Mitsui Chemicals, Inc. , Tokyo (JP)	D639,440 S * 6/2011 Raad D24/180
(72) Inventors: Takashi Yukita , Chiba (JP); Yuki Iwabuchi , Chiba (JP); Akira Hasegawa , Chiba (JP)	D685,098 S * 6/2013 Tompkins D24/180 D704,843 S * 5/2014 Singh D24/180 D720,858 S * 1/2015 Burlon D24/181 D739,028 S * 9/2015 Stein D24/180 D777,930 S * 1/2017 Raad D24/180 9,636,250 B2 * 5/2017 Summer A61F 5/566 D802,145 S * 11/2017 Voudouris D24/180 D872,281 S * 1/2020 Brauteseth
(73) Assignee: Mitsui Chemicals, Inc. , Tokyo (JP)	D932,626 S * 10/2021 Kim D24/181 D933,237 S * 10/2021 Sigurdsson
(**) Term: 15 Years	D950,066 S * 4/2022 Yukita D24/180
(21) Appl. No.: 29/828,568	2011/0308531 A1 12/2011 Grosky
(22) Filed: Feb. 28, 2022	2014/0230829 A1 * 8/2014 Rogers A61C 7/36 128/848

(Continued)

Related U.S. Application Data

(62) Division of application No. 35/510,875, filed on Aug. 27, 2020 (U.S. filing date under 35 U.S.C. 384), and having an international filing date of Aug. 27, 2020.

(51) **LOC (13) Cl.** **24-02**

(52) **U.S. Cl.**
USPC **D24/172**

(58) **Field of Classification Search**
USPC D24/172, 180, 181
CPC A61C 7/36; A61F 5/566
See application file for complete search history.

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(57) **CLAIM**

The ornamental design of an oral sleep apnea appliance, as shown and described.

DESCRIPTION

This application claims priority to U.S. design application Ser. No. 29/725,757 filed on Feb. 27, 2020.

FIG. 1 is a perspective view of oral sleep apnea appliance showing our new design;

FIG. 2 is a front view thereof;

FIG. 3 is a rear view thereof;

FIG. 4 is a top view thereof;

FIG. 5 is a bottom view thereof;

FIG. 6 is a right view thereof; and,

FIG. 7 is a left view thereof.

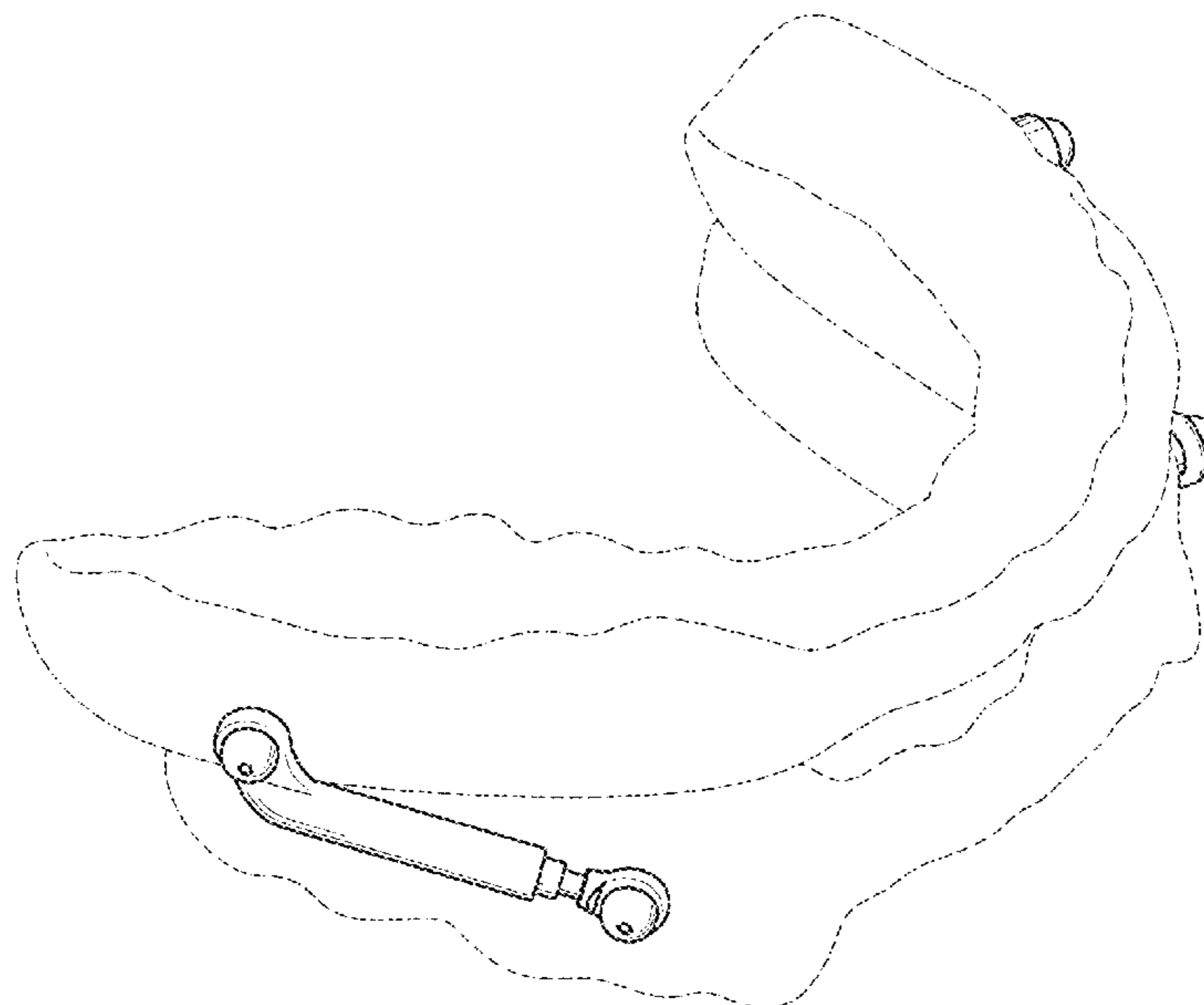
The broken lines in the figures show portions of oral sleep apnea appliance that form no part of the claimed design.

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1 Claim, 7 Drawing Sheets



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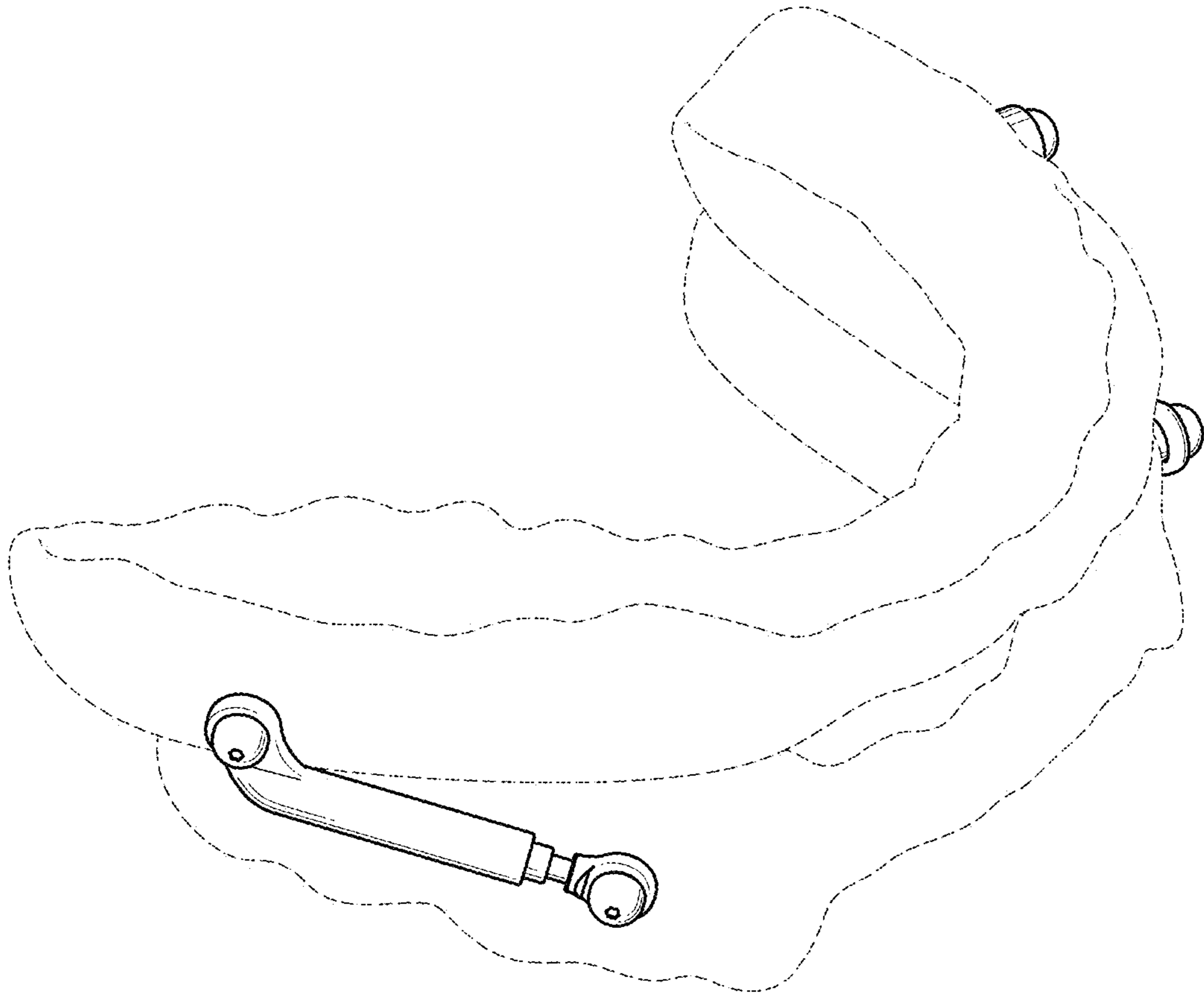


FIG. 1

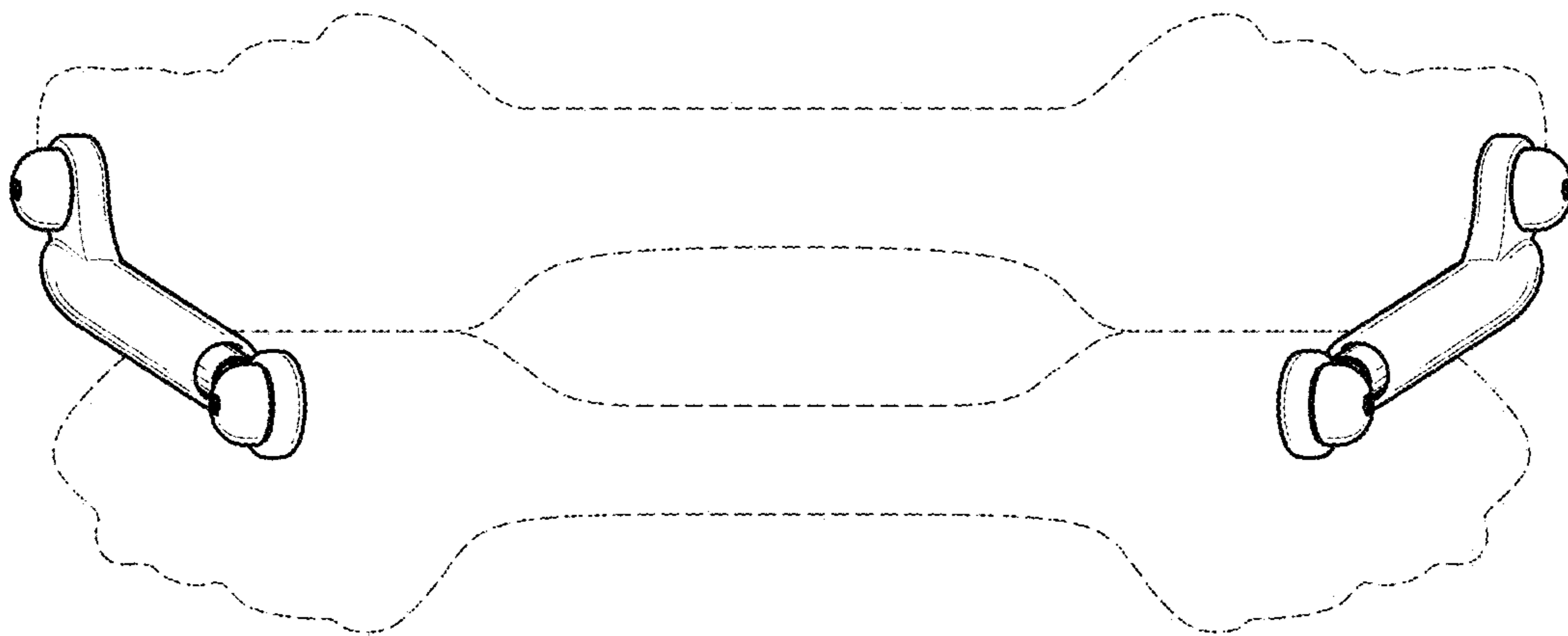


FIG. 2

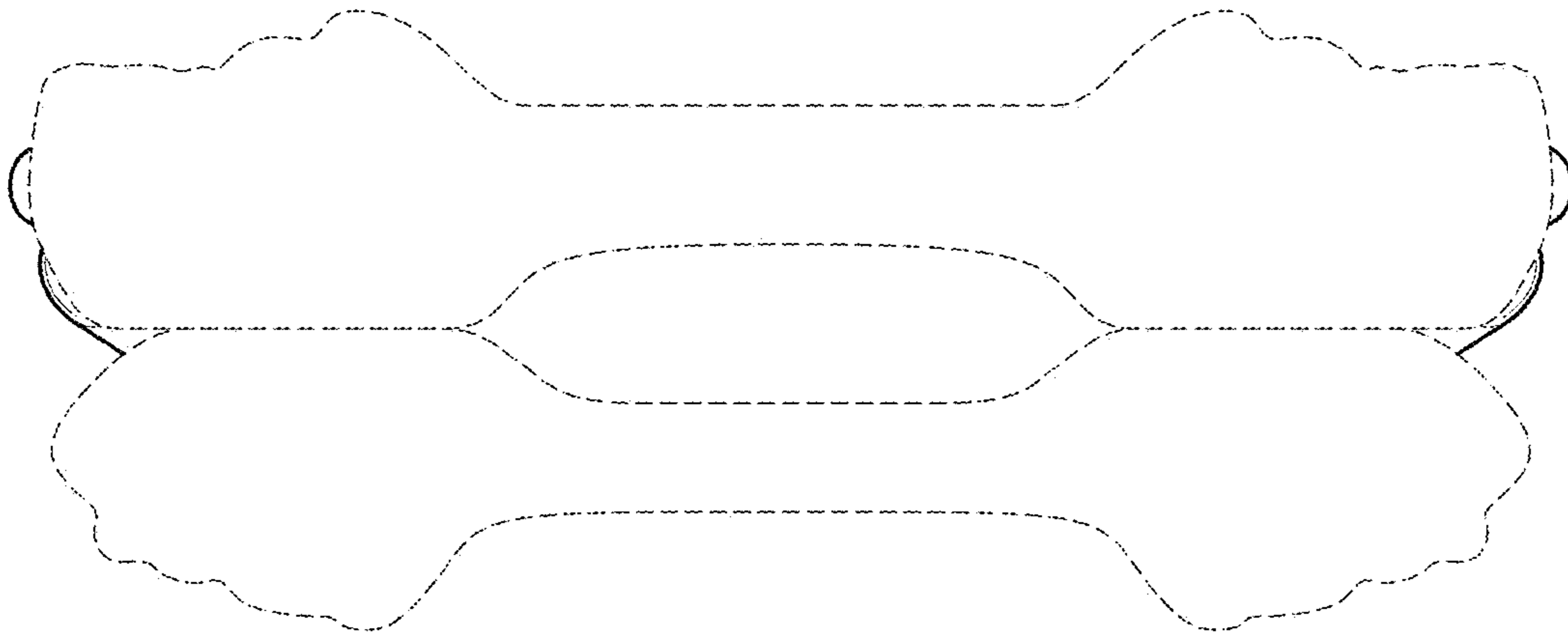


FIG. 3

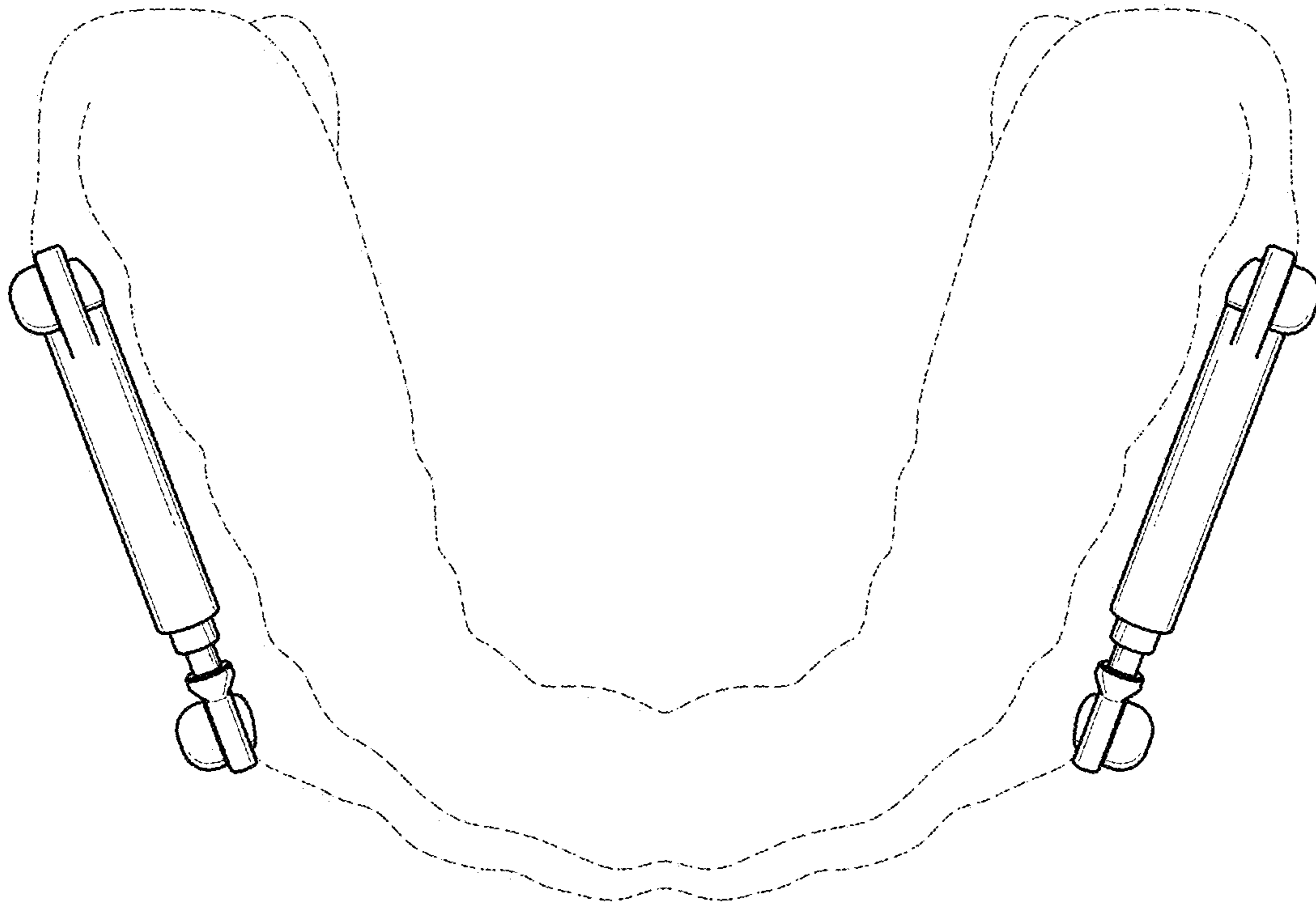


FIG. 4

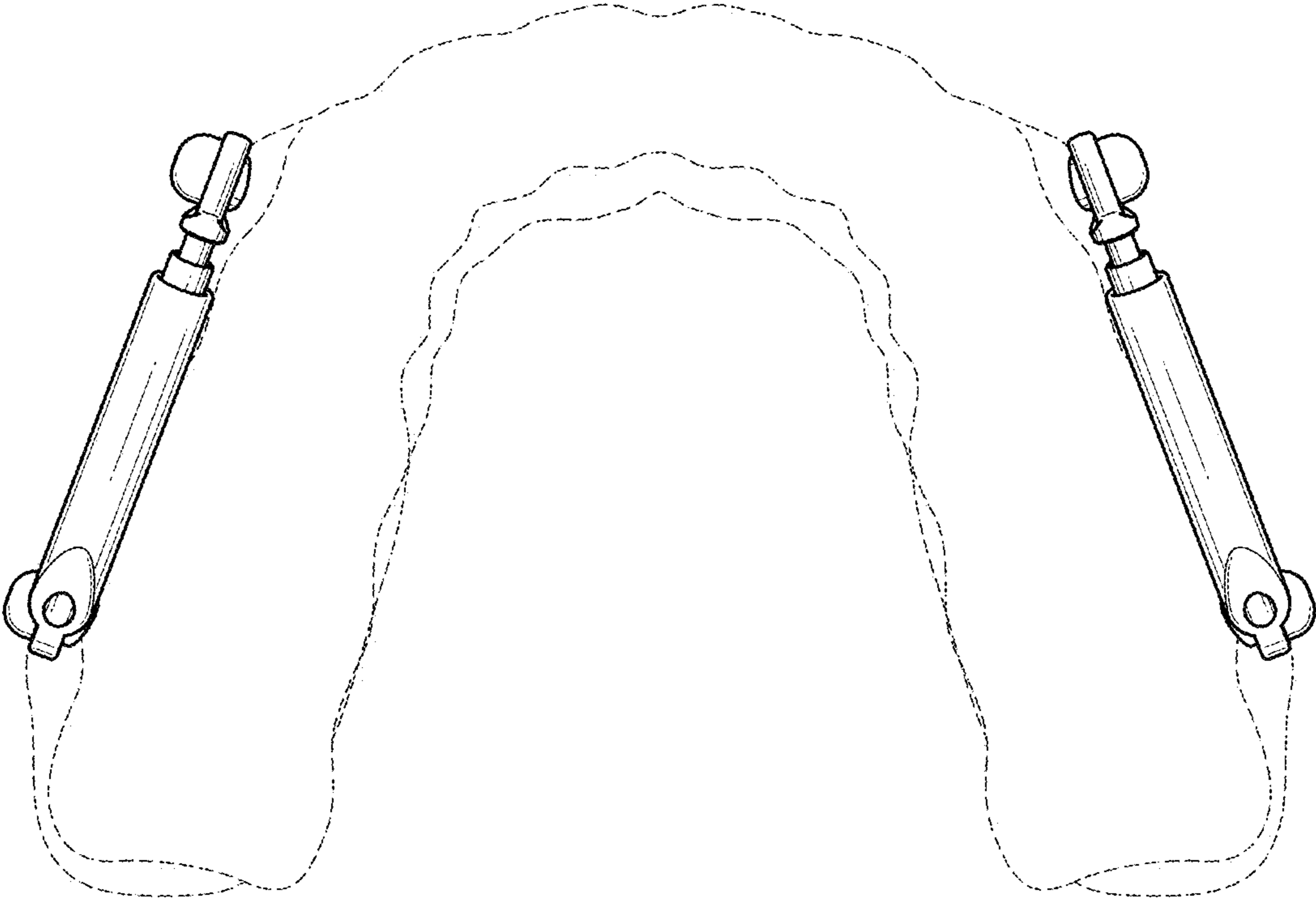


FIG. 5

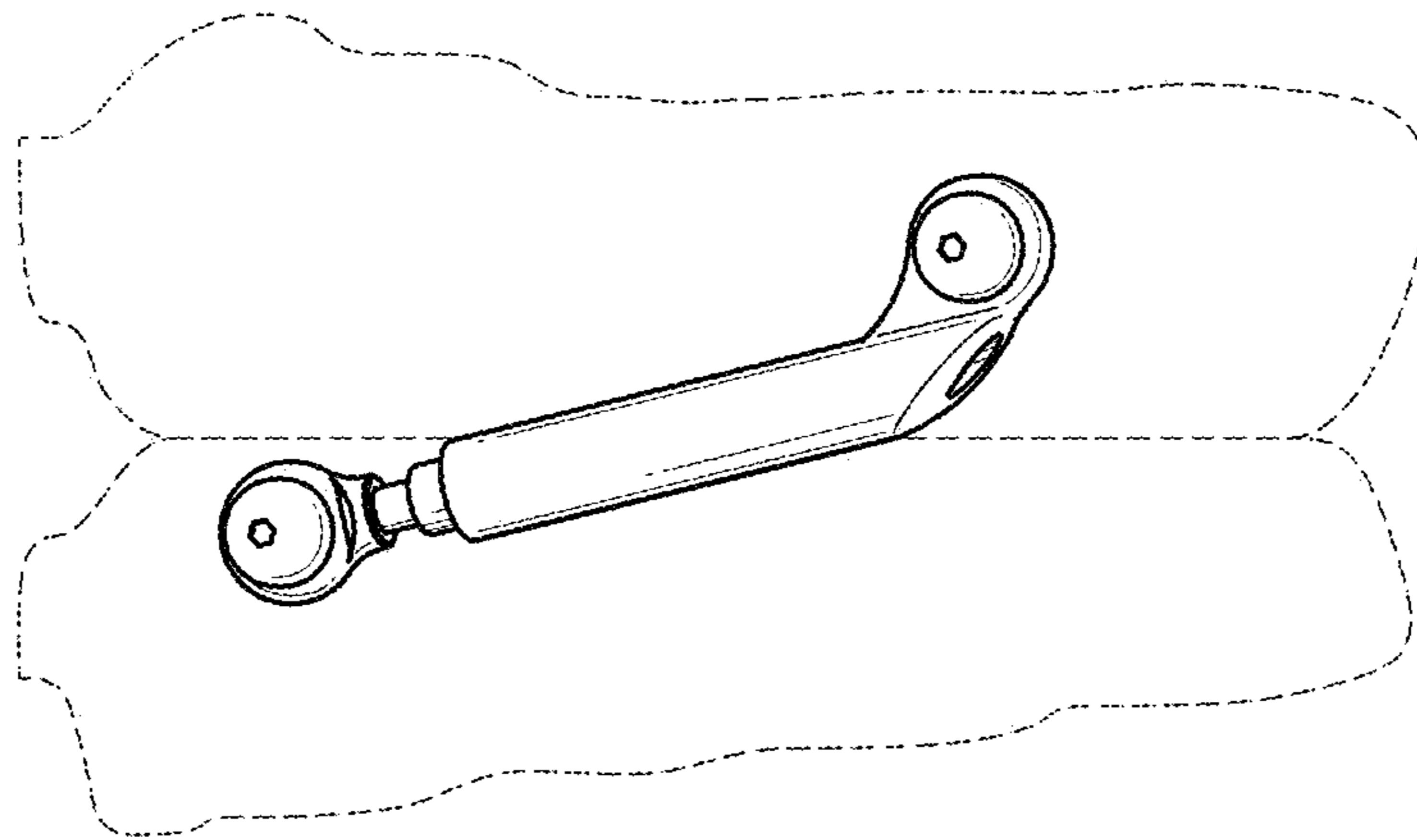


FIG. 6

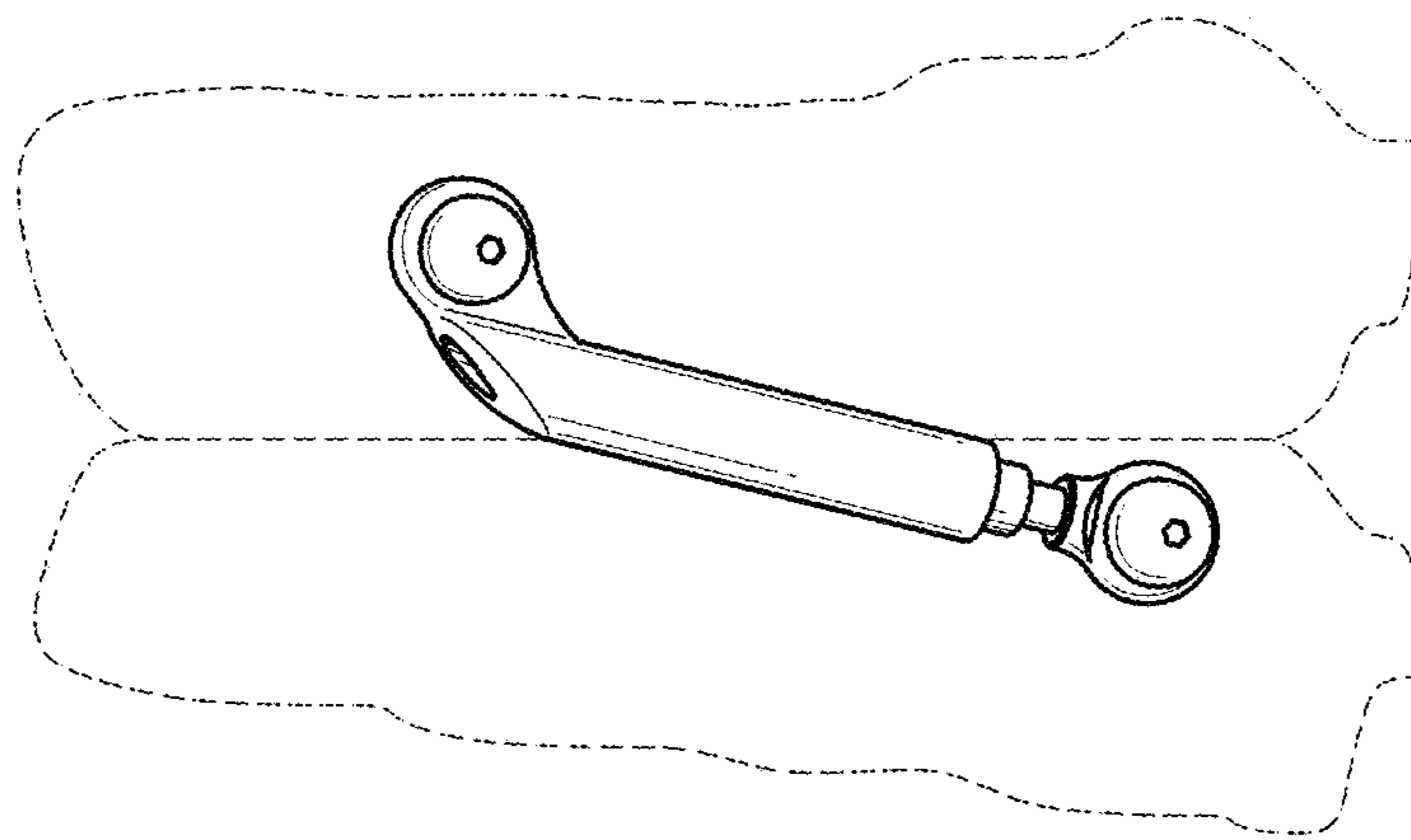


FIG. 7