



US00D903122S

(12) **United States Design Patent** (10) **Patent No.:** **US D903,122 S**
Yukita et al. (45) **Date of Patent:** **** Nov. 24, 2020**

(54) **ORAL SLEEP APPLIANCE AND SPACER**
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(**) Term: **15 Years**
(21) Appl. No.: **29/683,213**
(22) Filed: **Mar. 12, 2019**

Related U.S. Application Data

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(51) **LOC (12) Cl.** **24-02**
(52) **U.S. Cl.**
USPC **D24/180**
(58) **Field of Classification Search**
USPC D24/180-182, 152, 156, 176, 127
CPC .. A61F 5/56; A61F 5/58; A61F 5/0006; A61F 5/566; A61F 2005/563; A61C 7/08; A61C 7/36; A61C 8/005; A61C 19/063
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

6,408,852 B2 * 6/2002 Tielemans A61F 5/56
128/848
7,637,262 B2 * 12/2009 Bailey A61F 5/566
128/848
9,144,512 B2 * 9/2015 Wagner A61C 7/36
D759,824 S * 6/2016 Luco D24/180
9,545,332 B2 * 1/2017 Luco A61F 5/566

2013/0239978 A1 * 9/2013 Stubbs A61C 7/36
128/861
2013/0284184 A1 * 10/2013 Wagner A61C 7/36
128/848
2016/0015556 A1 * 1/2016 Luco A61F 5/566
128/848
2017/0000643 A1 * 1/2017 Gelb A61C 7/36
2017/0035534 A1 * 2/2017 Ross A61F 5/566
2017/0367793 A1 * 12/2017 Veis A61C 7/08
2019/0183670 A1 * 6/2019 Nagai A61C 7/36

* cited by examiner

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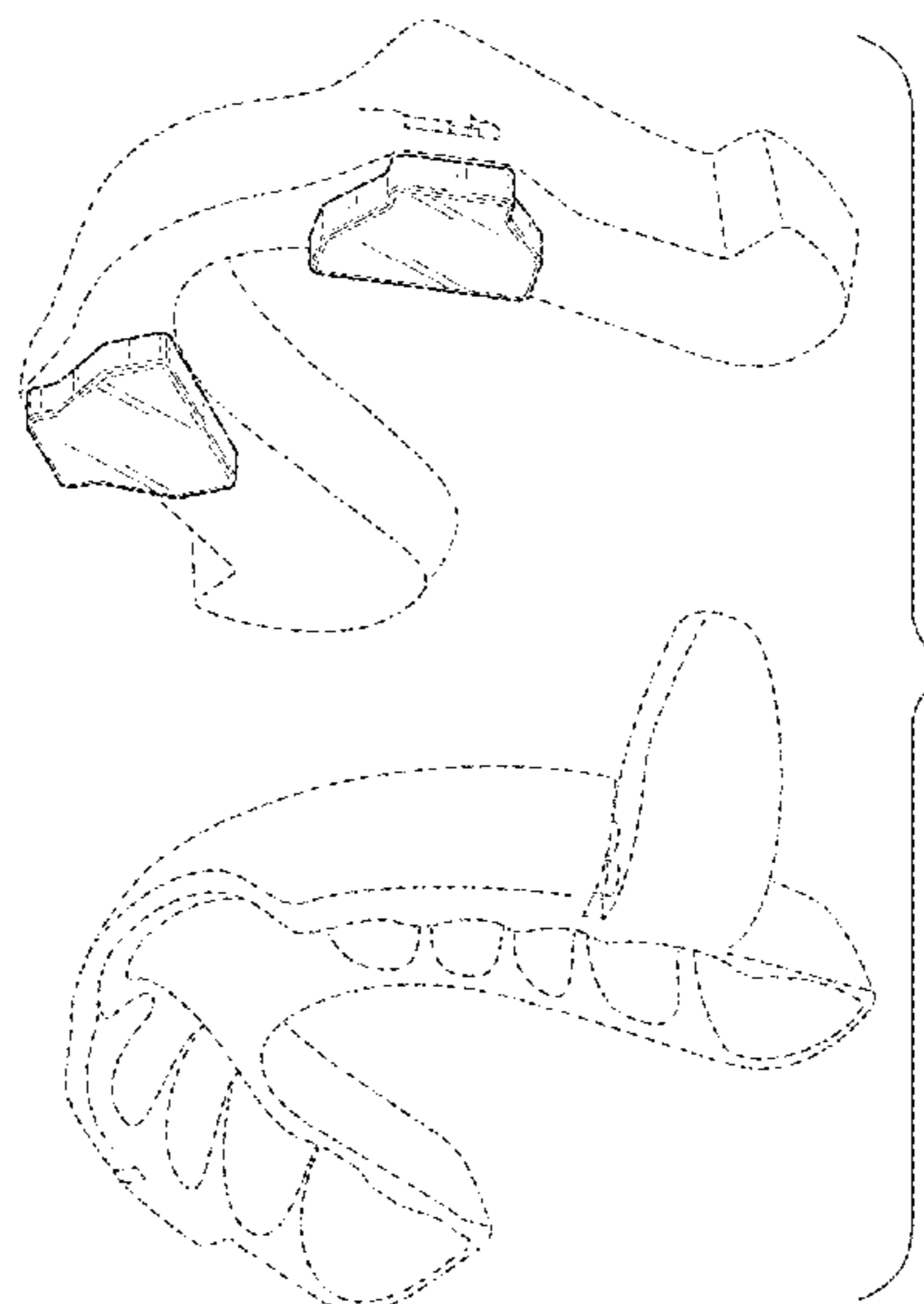
(57) **CLAIM**

The ornamental design for an oral sleep appliance and spacer, as shown and described.

DESCRIPTION

FIG. 1 is a front view of an oral sleep appliance and spacer showing our new design;
FIG. 2 is a rear view of an oral sleep appliance and spacer thereof;
FIG. 3 is a left side view of an oral sleep appliance and spacer thereof;
FIG. 4 is a right side view of an oral sleep appliance and spacer thereof;
FIG. 5 is a top view of an oral sleep appliance and spacer thereof;
FIG. 6 is a bottom view of an oral sleep appliance and spacer thereof;
FIG. 7 is a bottom view of upper component of an oral sleep appliance and spacer thereof; and,
FIG. 8 is an exploded bottom front perspective view of an oral sleep appliance and spacer thereof.
The dashed broken lines in the figures show portions of the oral sleep appliance and spacer that form no part of the claimed design.

1 Claim, 5 Drawing Sheets



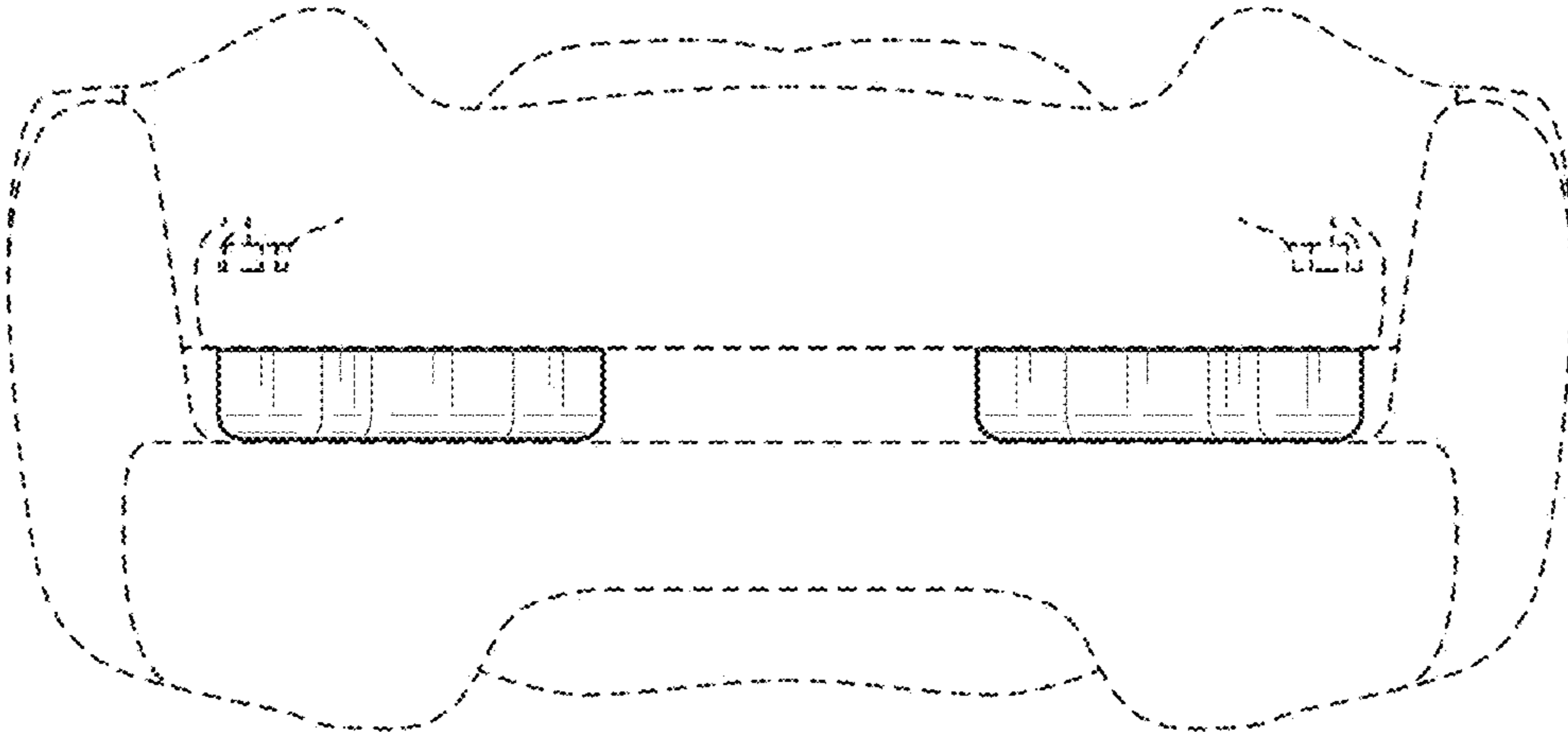


FIG. 1

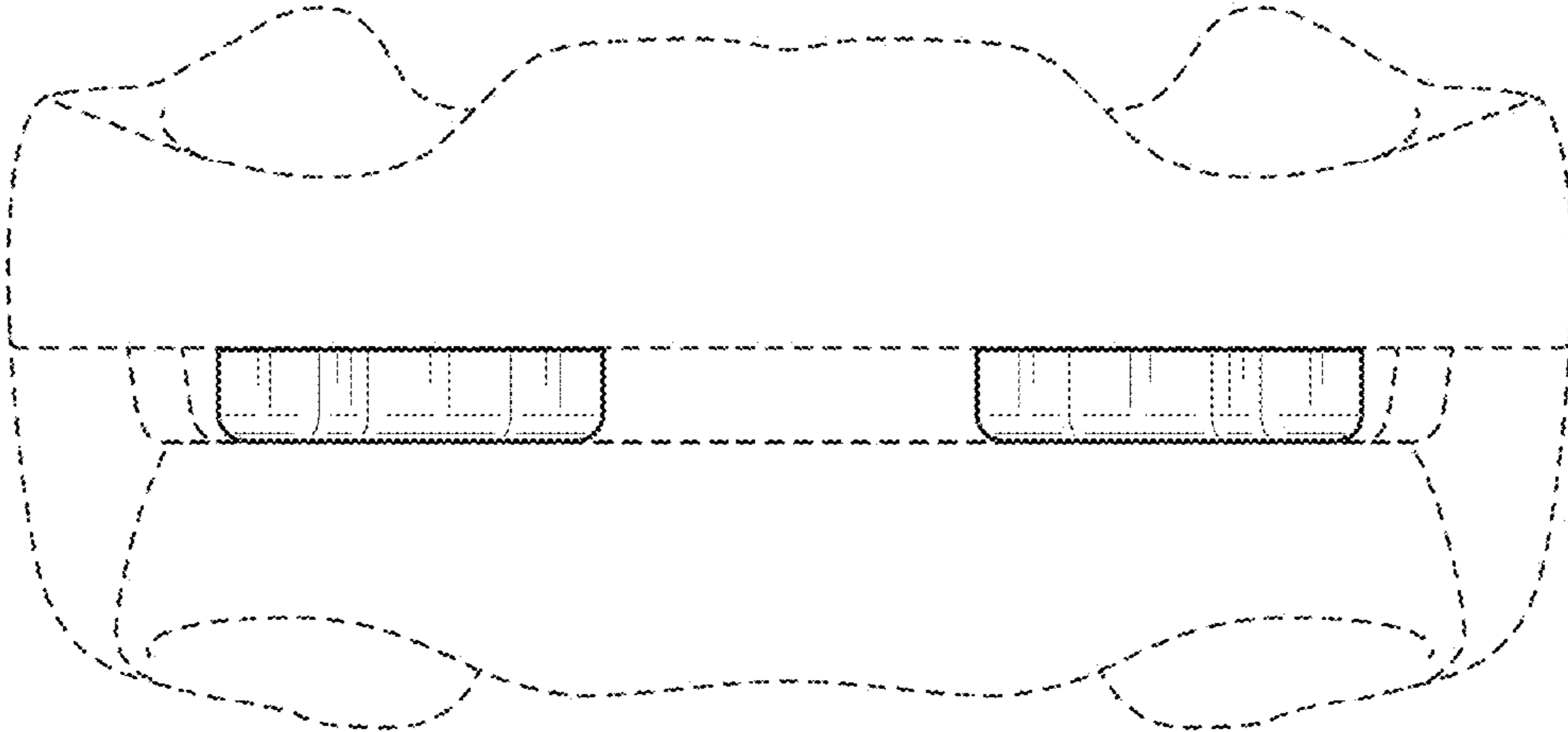


FIG. 2

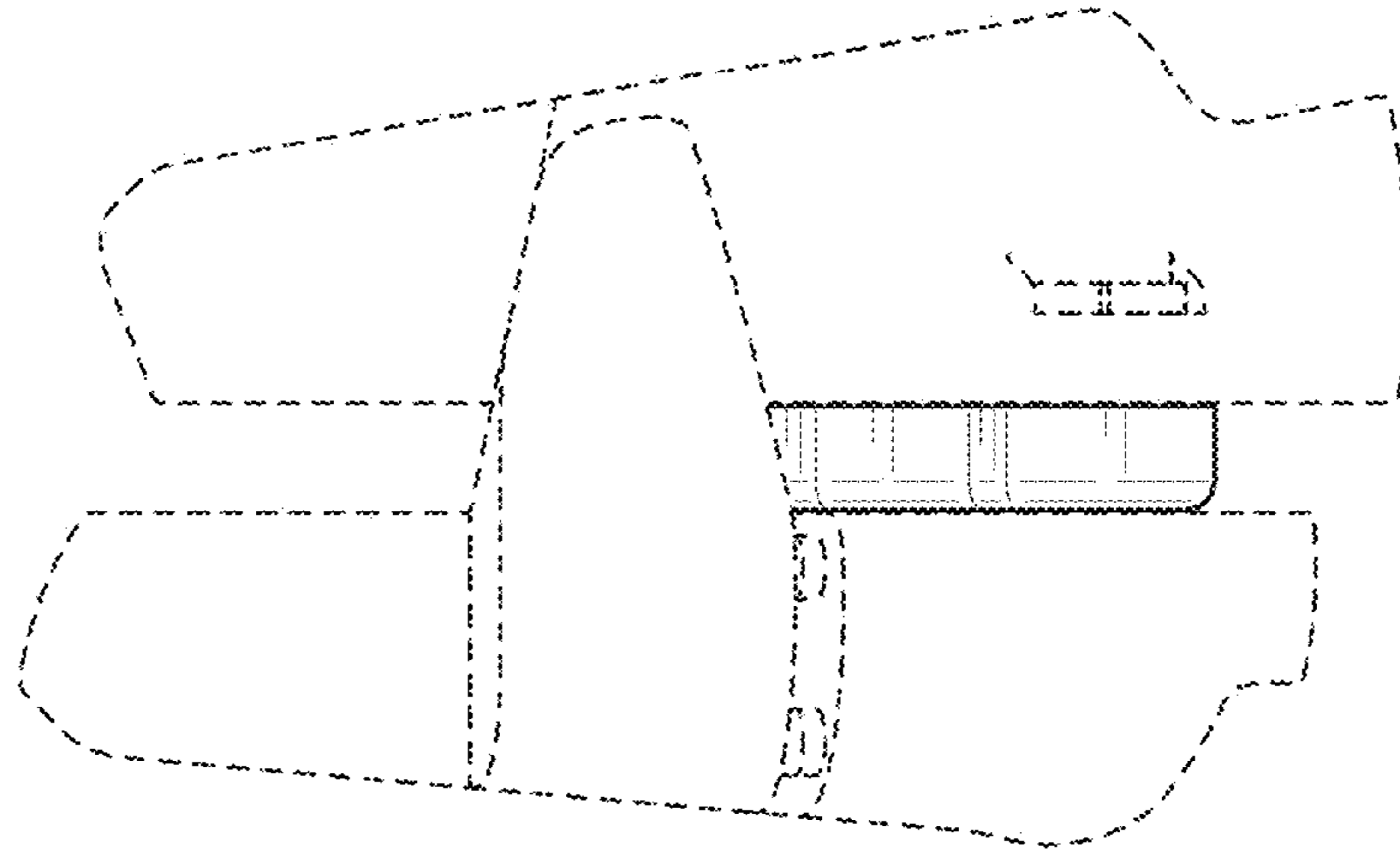


FIG. 3

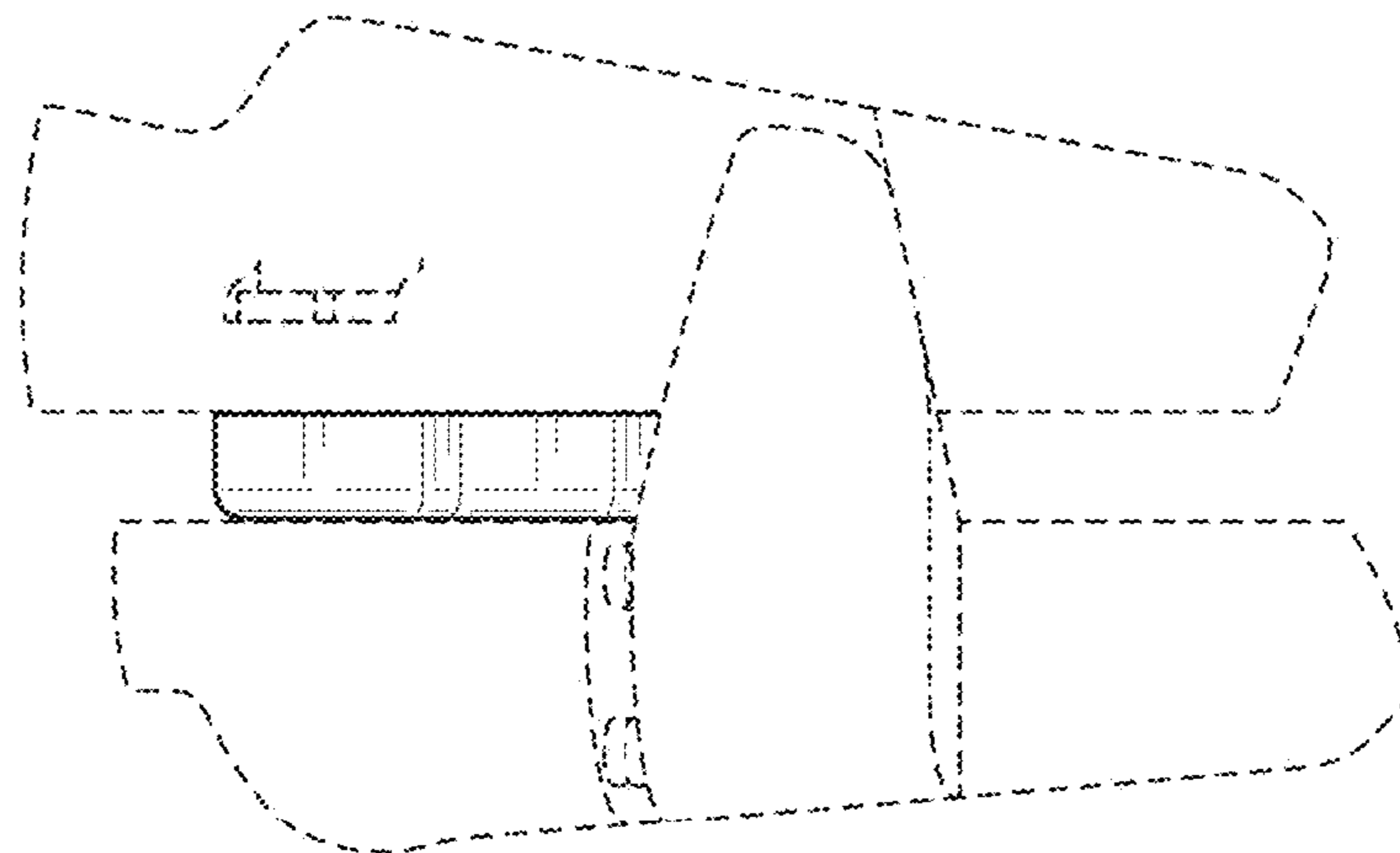


FIG. 4

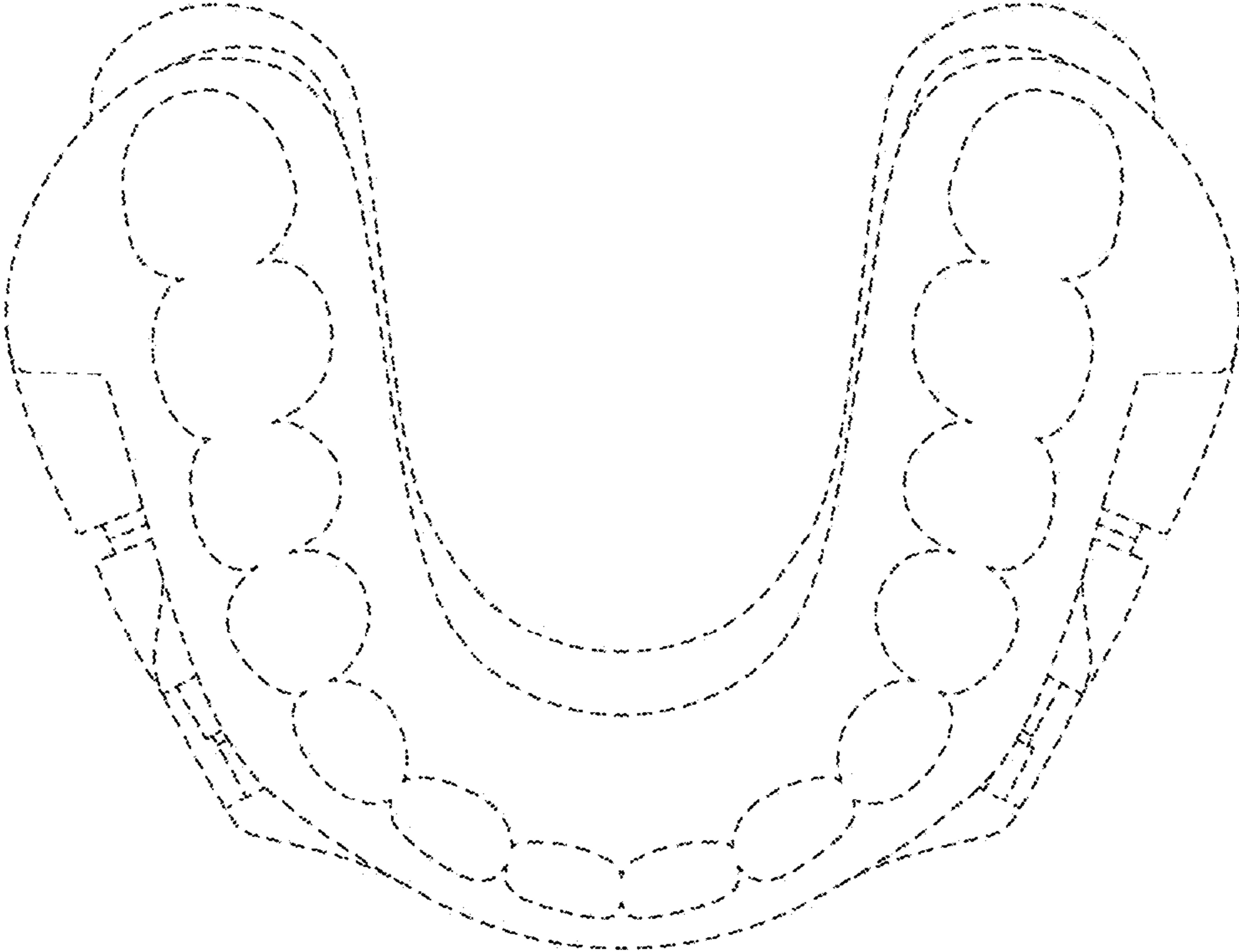


FIG. 5

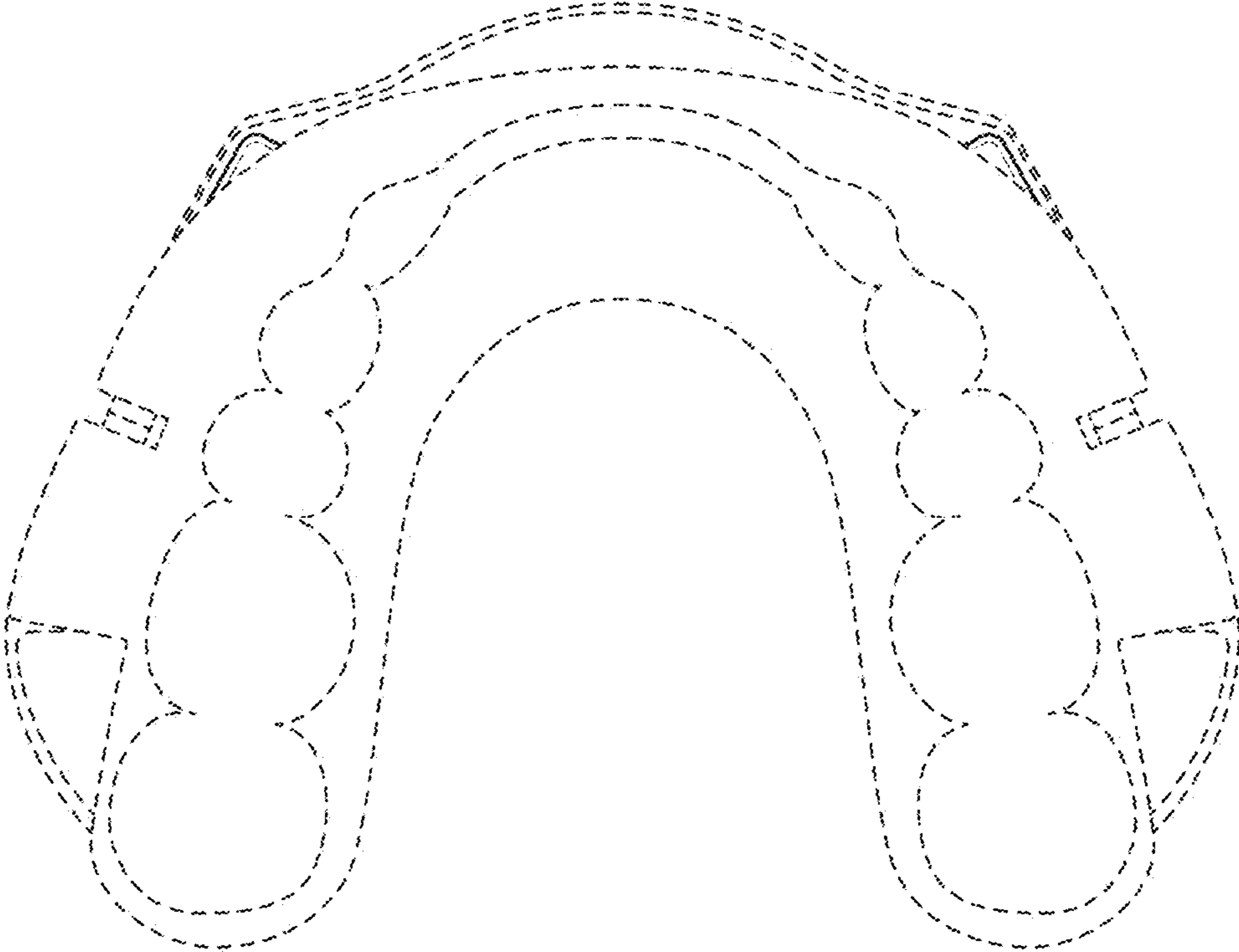


FIG. 6

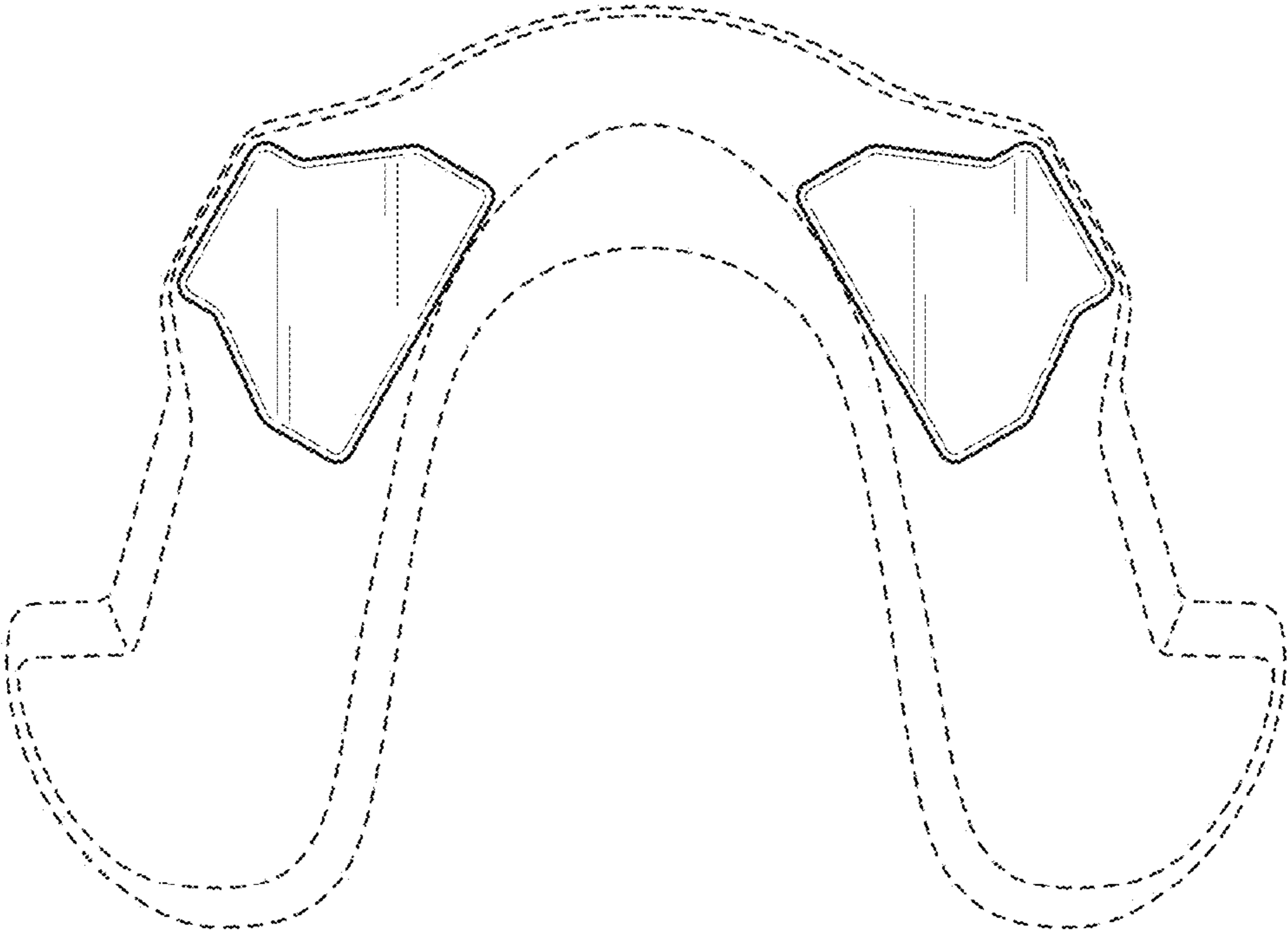


FIG. 7

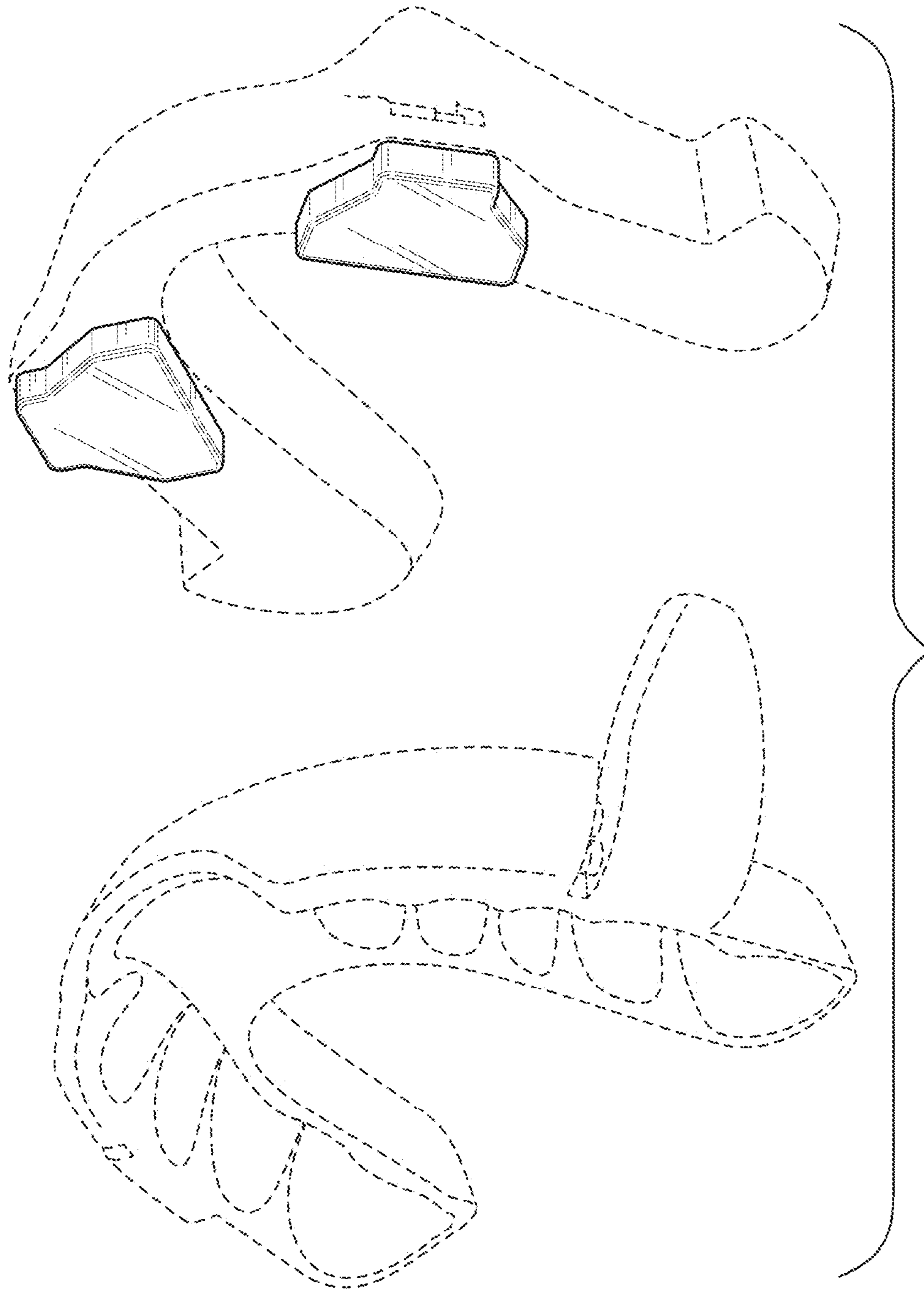


FIG. 8