



US00D903122S

(12) **United States Design Patent**  
**Yukita et al.**

(10) **Patent No.:** **US D903,122 S**

(45) **Date of Patent:** **\*\* Nov. 24, 2020**

(54) **ORAL SLEEP APPLIANCE AND SPACER**

(71) Applicant: **Mitsui Chemicals, Inc.**, Tokyo (JP)

(72) Inventors: **Takashi Yukita**, Chiba (JP); **Haruka Sugita**, Tokyo (JP); **Akira Hasegawa**, Chiba (JP); **Hideyuki Nagai**, Iwakuni (JP); **Yasufumi Tsuchiya**, Funabashi (JP)

(73) Assignee: **MITSUI CHEMICALS, INC.**, Tokyo (JP)

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

(21) Appl. No.: **29/683,213**

(22) Filed: **Mar. 12, 2019**

**Related U.S. Application Data**

(62) Division of application No. 29/615,598, filed on Aug. 30, 2017, now Pat. No. Des. 870,293.

(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

*Primary Examiner* — Wan Laymon

(74) *Attorney, Agent, or Firm* — Brundidge & Stanger, P.C.

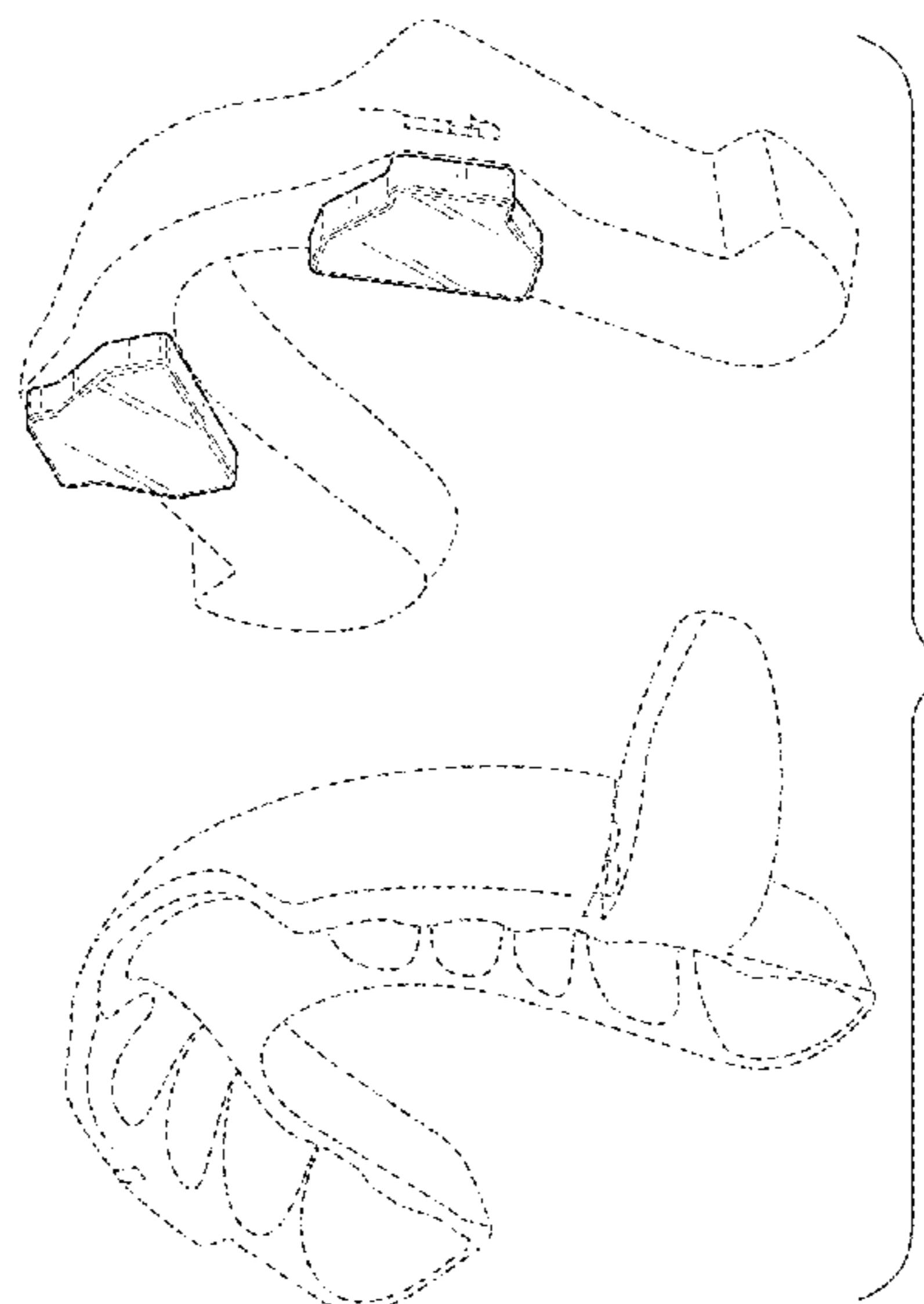
(57) **CLAIM**

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**



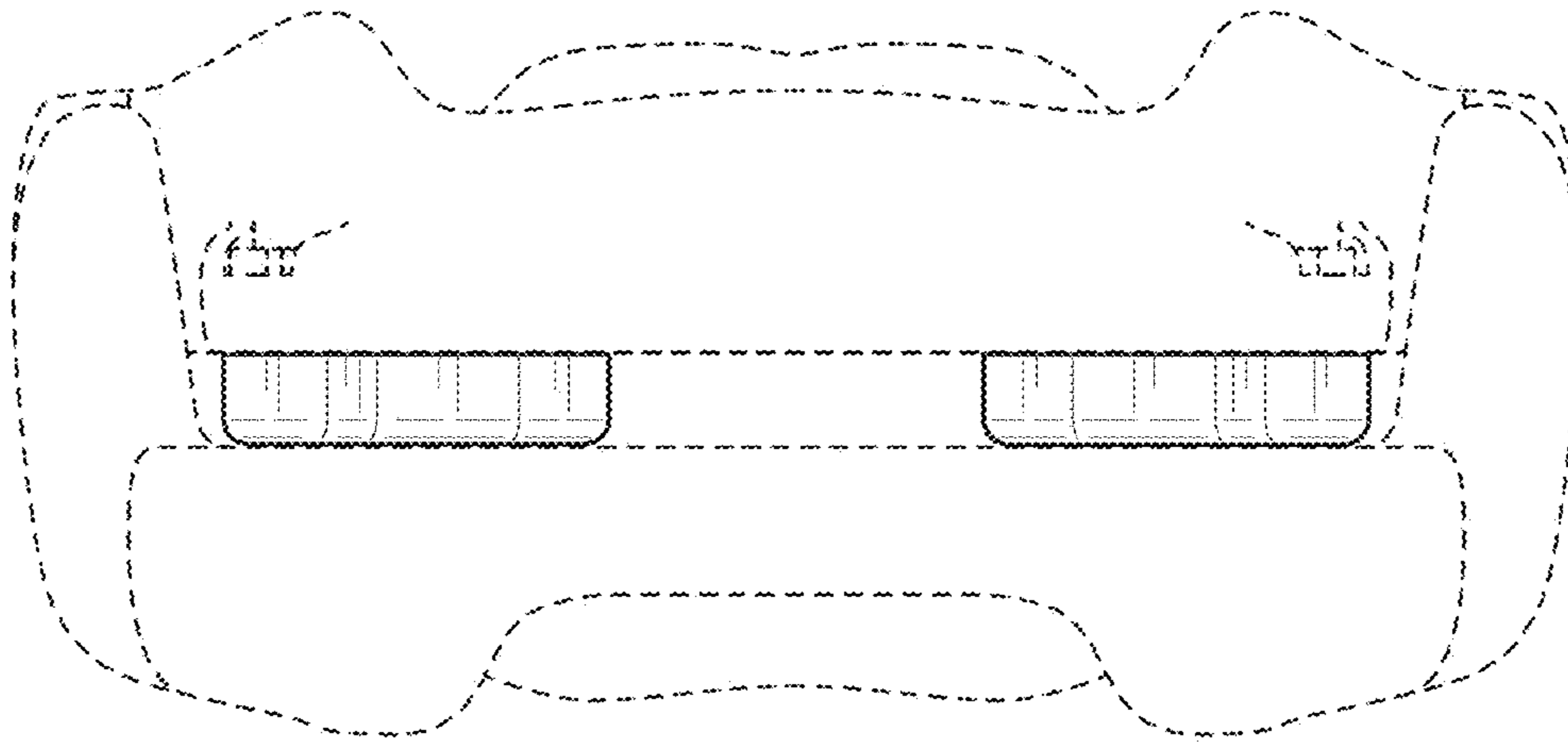


FIG. 1

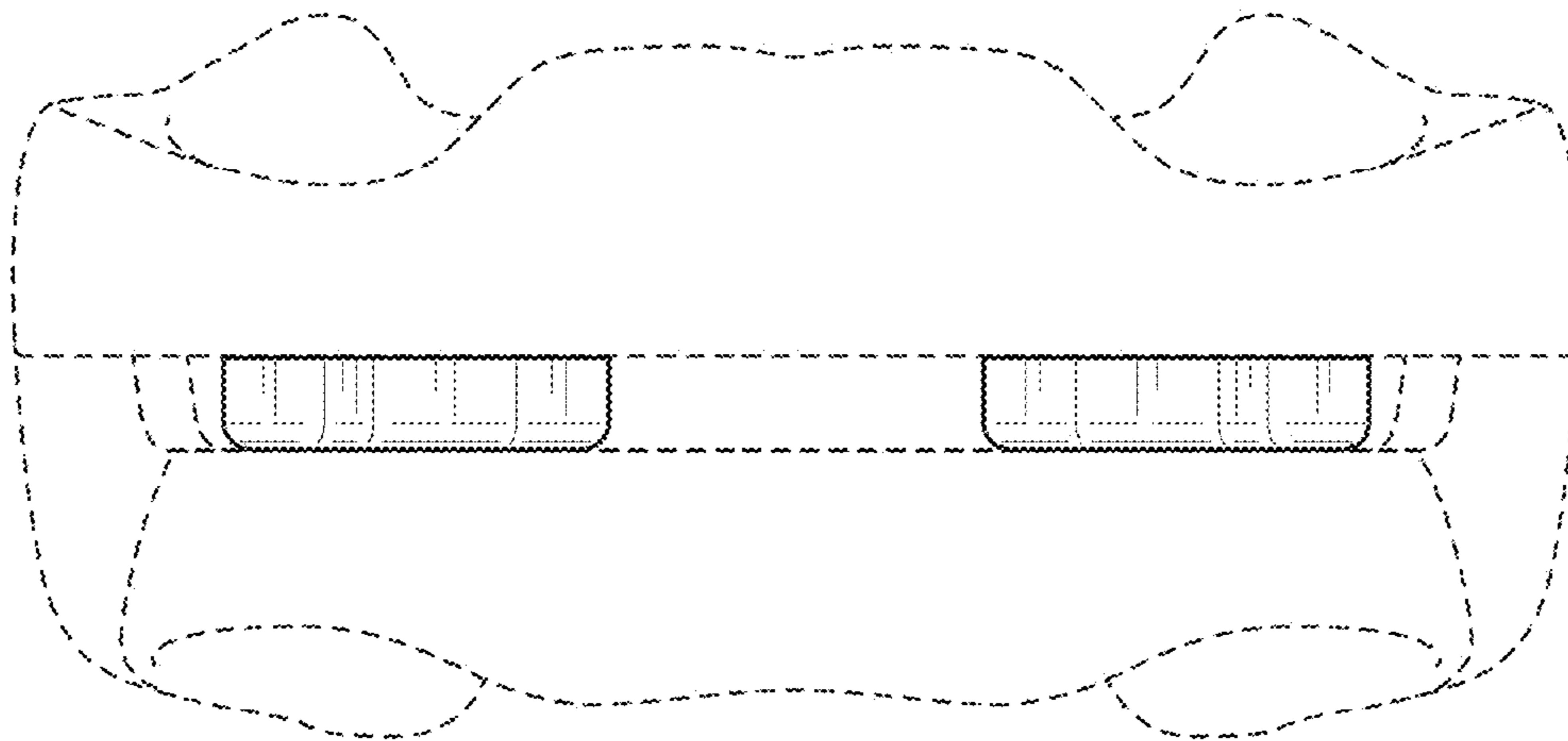
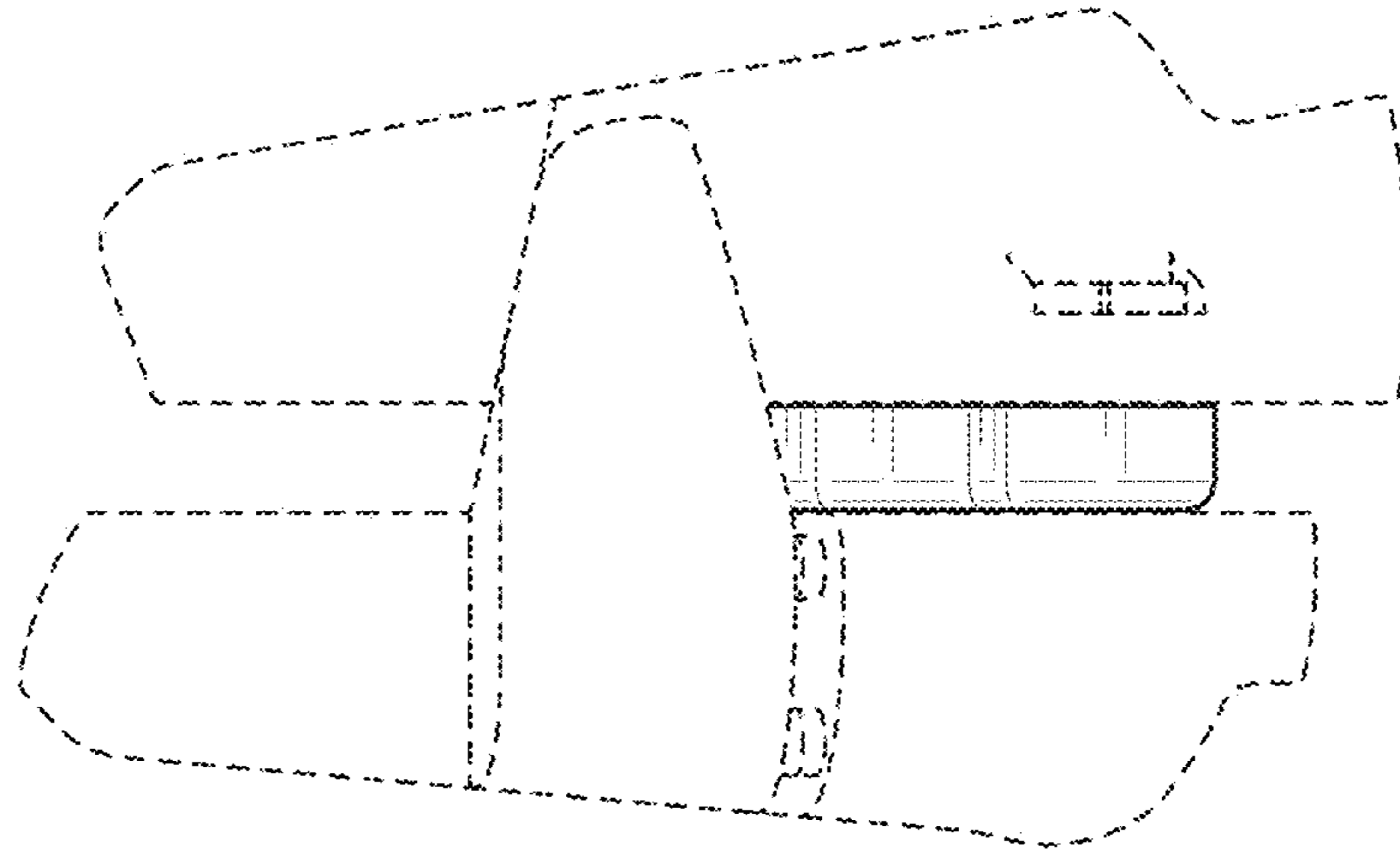
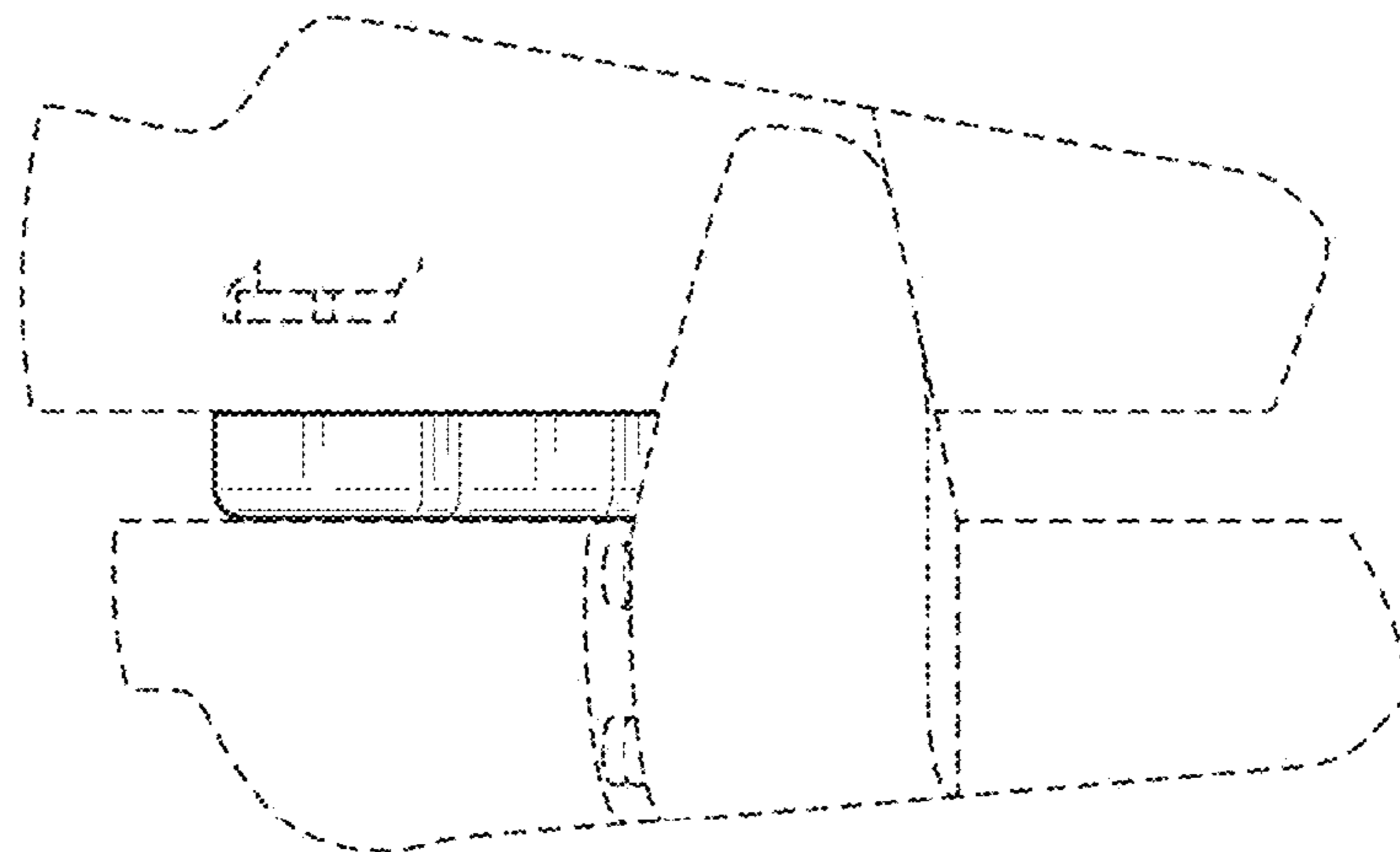


FIG. 2



*FIG. 3*



*FIG. 4*

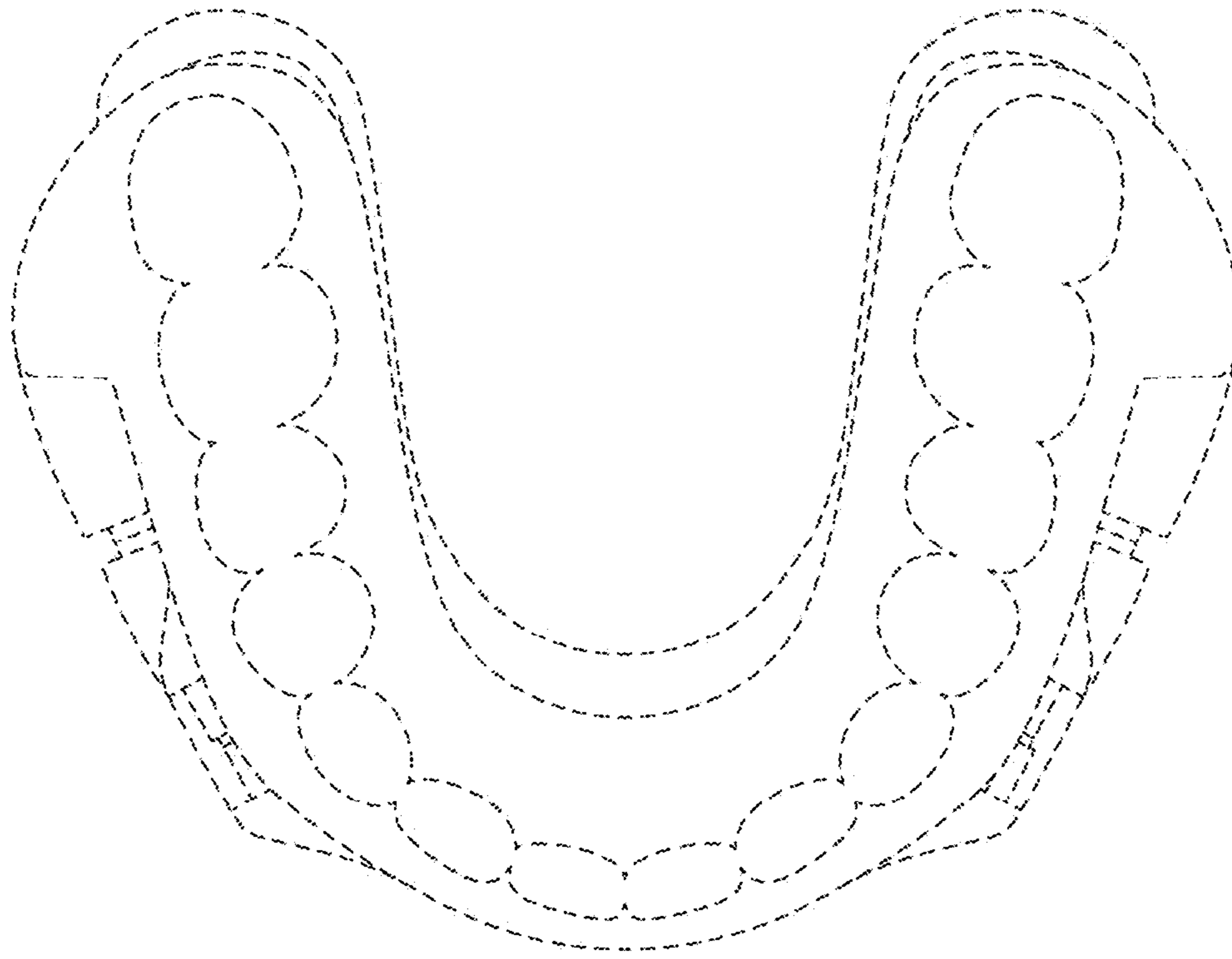


FIG. 5

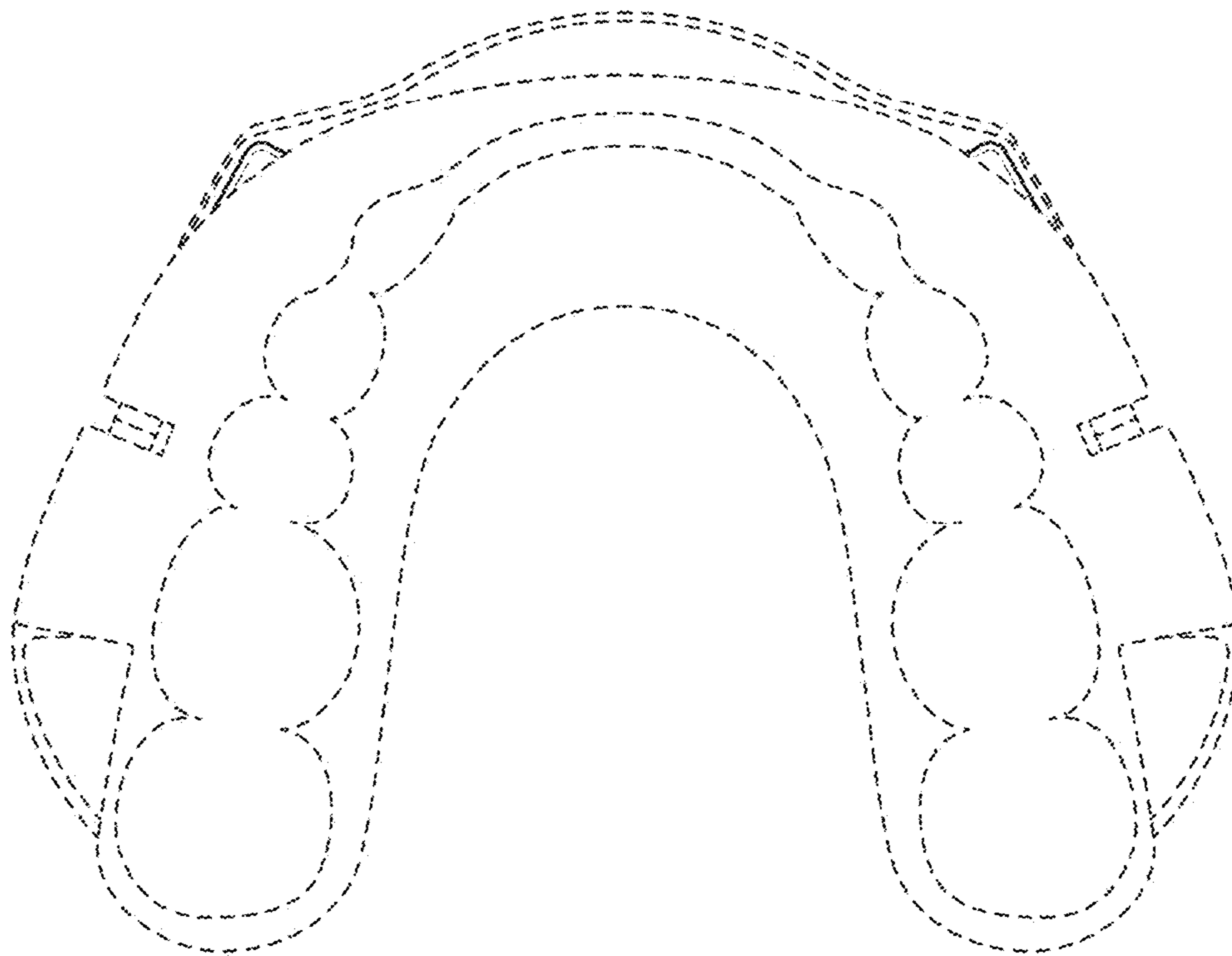


FIG. 6

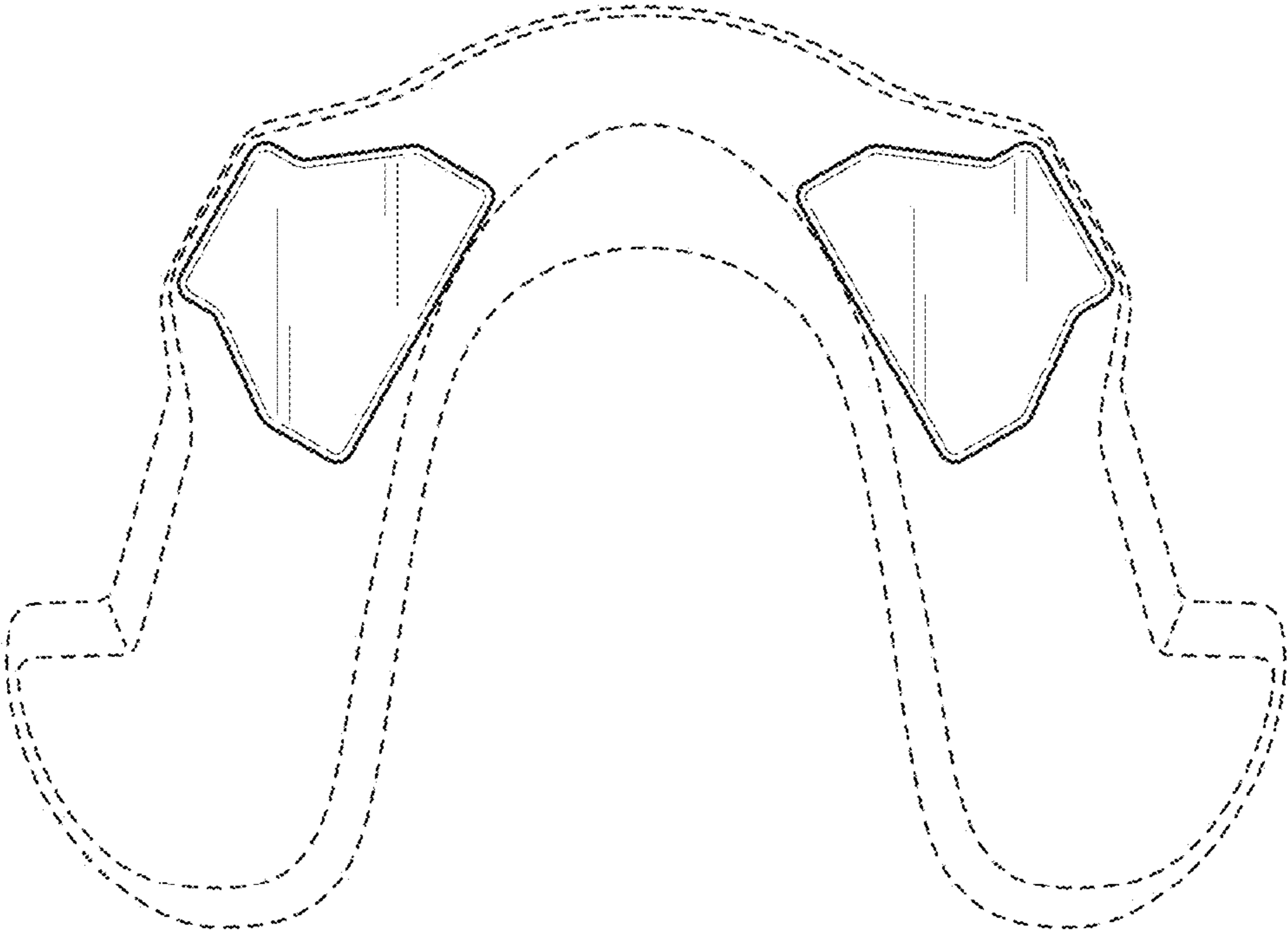


FIG. 7

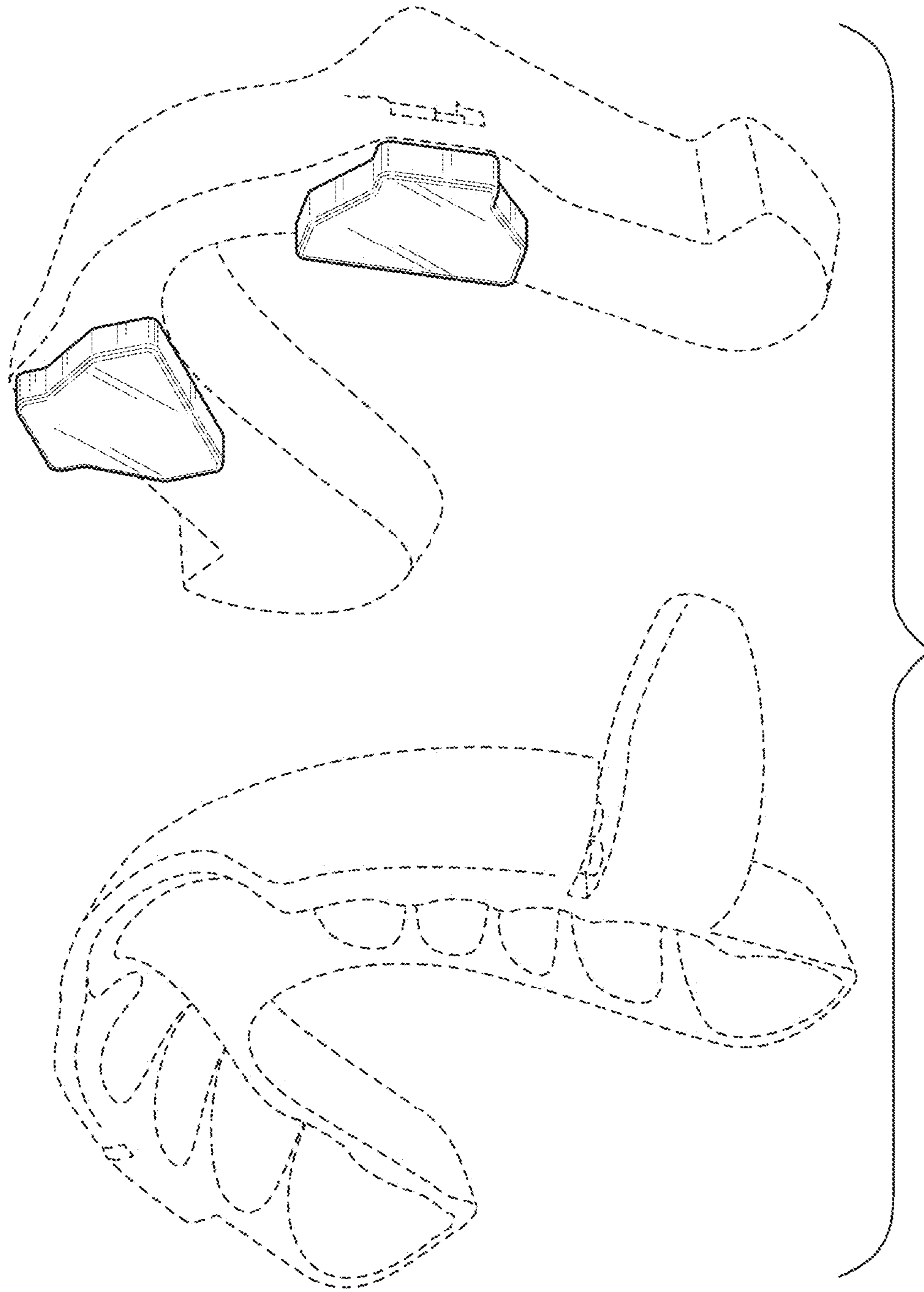


FIG. 8