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(12) United States Design Patent

Mahani

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(54) **ORTHODONTIC ORAL APPLIANCE WITH POSTERIOR BITE PLATE TO EASE AND MAXIMIZE HORIZONTAL ELASTIC FUNCTION OF RUBBER BANDS IN TRANSVERSE PLANE TOOTH MOVEMENTS**

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(*) Notice: This patent is subject to a terminal disclaimer.

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

(21) Appl. No.: **29/848,103**

(22) Filed: **Jul. 29, 2022**

(51) **LOC (15) Cl.** **24-02**

(52) **U.S. Cl.**
USPC **D24/181**

(58) **Field of Classification Search**
USPC D24/176, 178, 108, 180, 181, 182; D29/108

(Continued)

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(74) *Attorney, Agent, or Firm* — Barry Choobin; Patent 360

(57) **CLAIM**

The ornamental design for a orthodontic oral appliance with posterior bite plate to ease and maximize horizontal elastic function of rubber bands in transverse plane tooth movements substantially as shown and described.

DESCRIPTION

FIG. **1** is a top, left-side perspective view of the complete orthodontic oral appliance with posterior bite plate to ease and maximize horizontal elastic function of rubber bands in transverse plane tooth movements, assembled on dental casts.

FIG. **2** is a bottom, right-side perspective view of the complete orthodontic oral appliance with posterior bite plate to ease and maximize horizontal elastic function of rubber bands in transverse plane tooth movements, assembled on dental casts.

FIG. **3** is a top, left-side perspective view of the complete orthodontic oral appliance with posterior bite plate to ease and maximize horizontal elastic function of rubber bands in transverse plane tooth movements.

FIG. **4** is a bottom, right-side perspective view of the complete orthodontic oral appliance with posterior bite plate to ease and maximize horizontal elastic function of rubber bands in transverse plane tooth movements.

FIG. **5** is a top-side view thereof;

FIG. **6** is a bottom-side view thereof;

FIG. **7** is a right-side view thereof;

FIG. **8** is a left-side view thereof;

FIG. **9** is a front-side view thereof;

FIG. **10** is a rear-side view thereof;

FIG. **11** is a top, left-side perspective view of the upper member of orthodontic oral appliance with posterior bite plate to ease and maximize horizontal elastic function of rubber bands in transverse plane tooth movements.

FIG. **12** a bottom, right-side perspective view of the upper member of orthodontic oral appliance with posterior bite plate to ease and maximize horizontal elastic function of rubber bands in transverse plane tooth movements.

FIG. **13** is a top, left-side perspective view of the lower member of orthodontic oral appliance with posterior bite plate to ease and maximize horizontal elastic function of rubber bands in transverse plane tooth movements; and,

FIG. **14** a bottom, right-side perspective view of the lower member of orthodontic oral appliance with posterior bite

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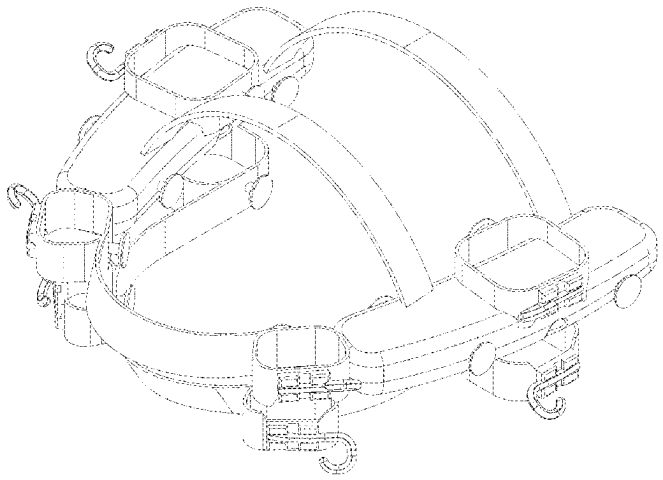

plate to ease and maximize horizontal elastic function of rubber bands in transverse plane tooth movements.
The broken lines represent unclaimed subject matter and form no part of the claimed design.

1 Claim, 9 Drawing Sheets

(58) **Field of Classification Search**
CPC A61C 7/00; A61C 7/08; A61C 7/36; A61C 7/10; A61F 5/566; A61F 5/56; A61F 2005/563
See application file for complete search history.

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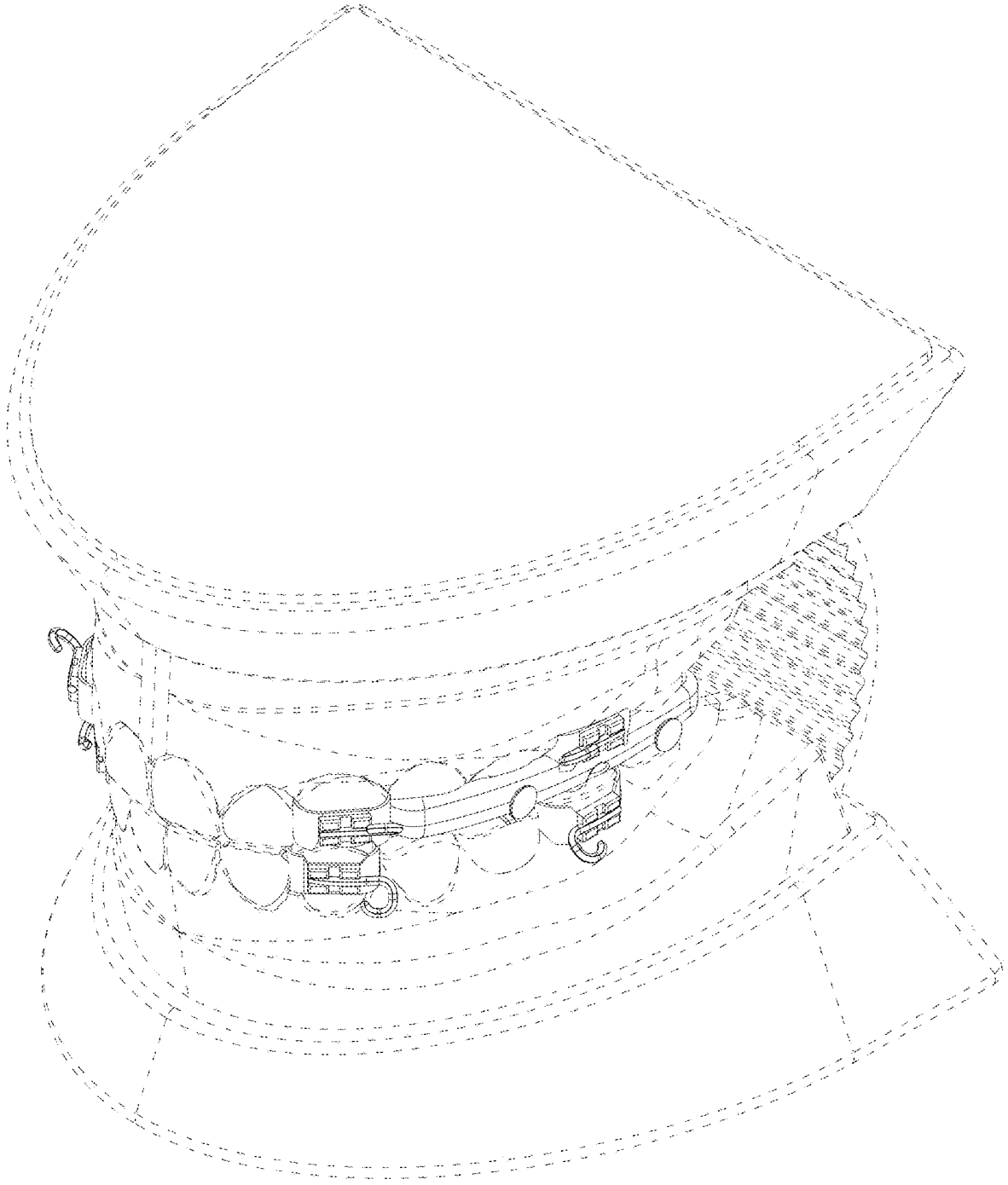

FIG.1

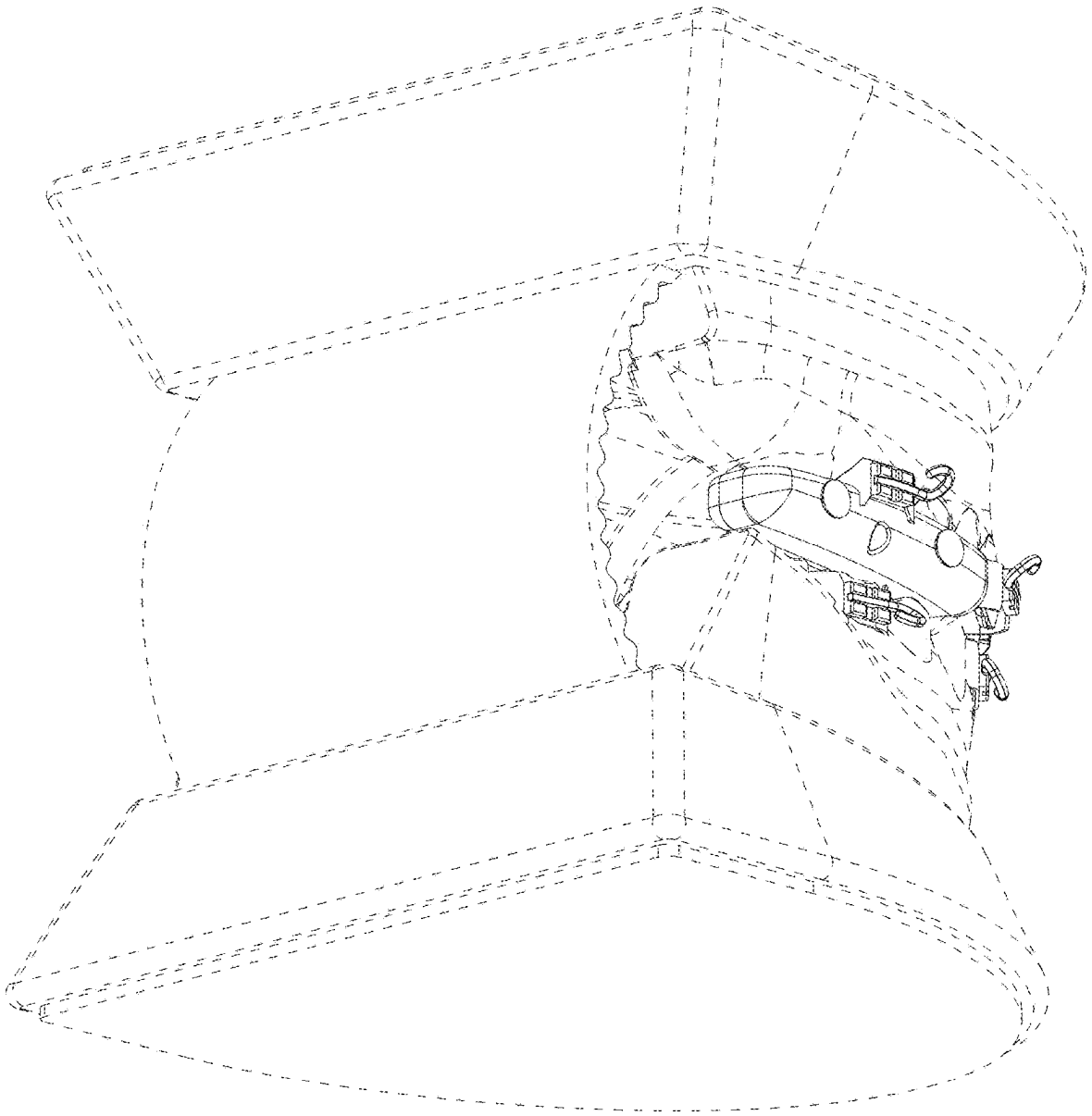

FIG.2

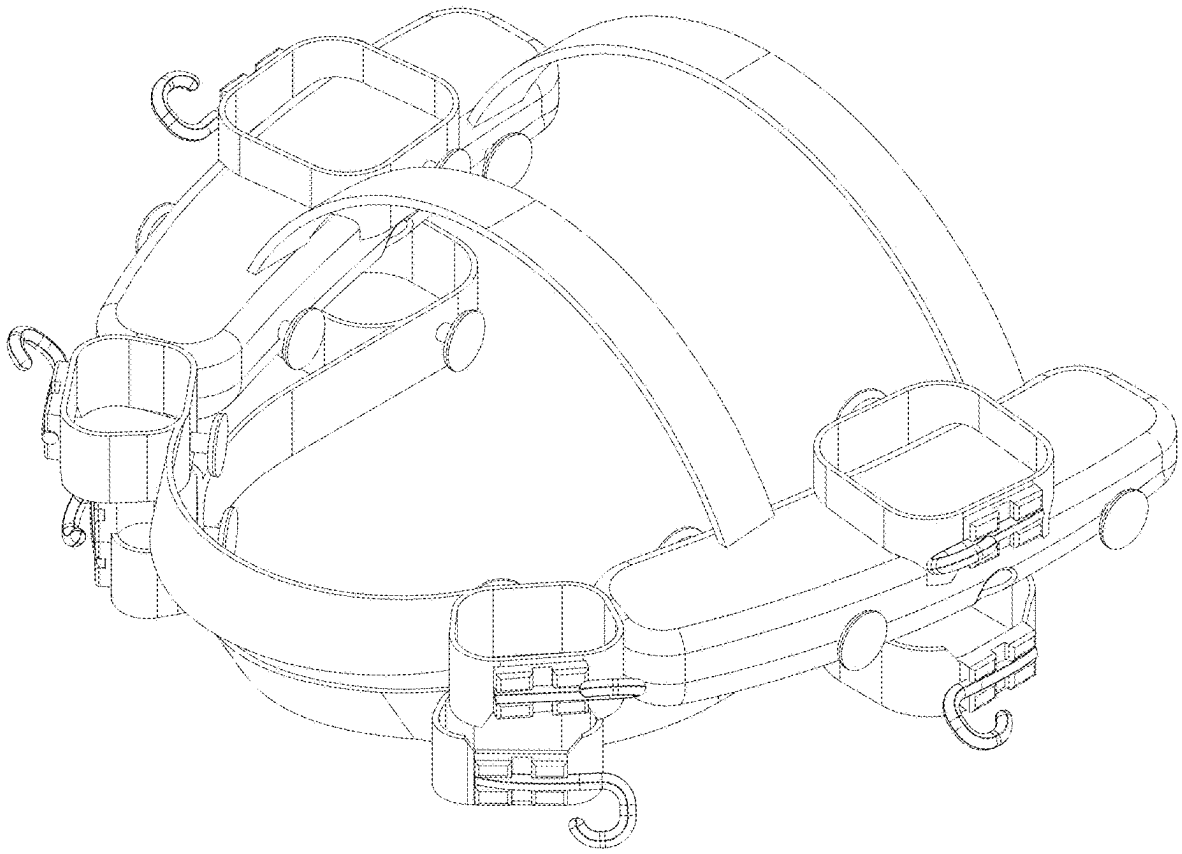

FIG.3

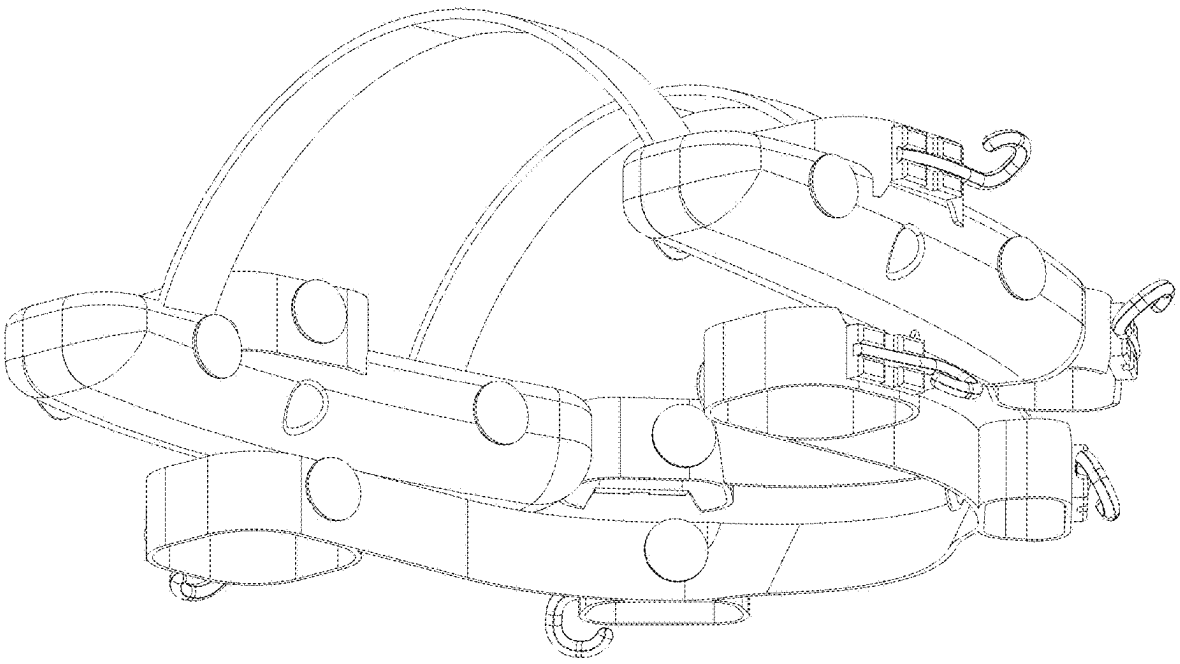

FIG.4

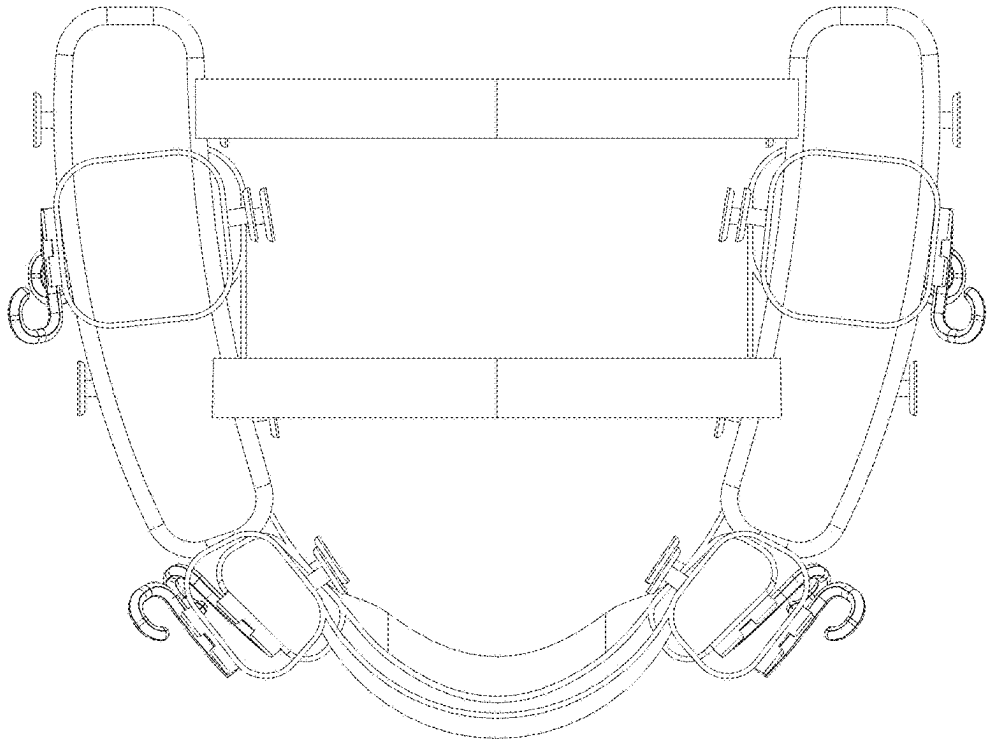

FIG.5

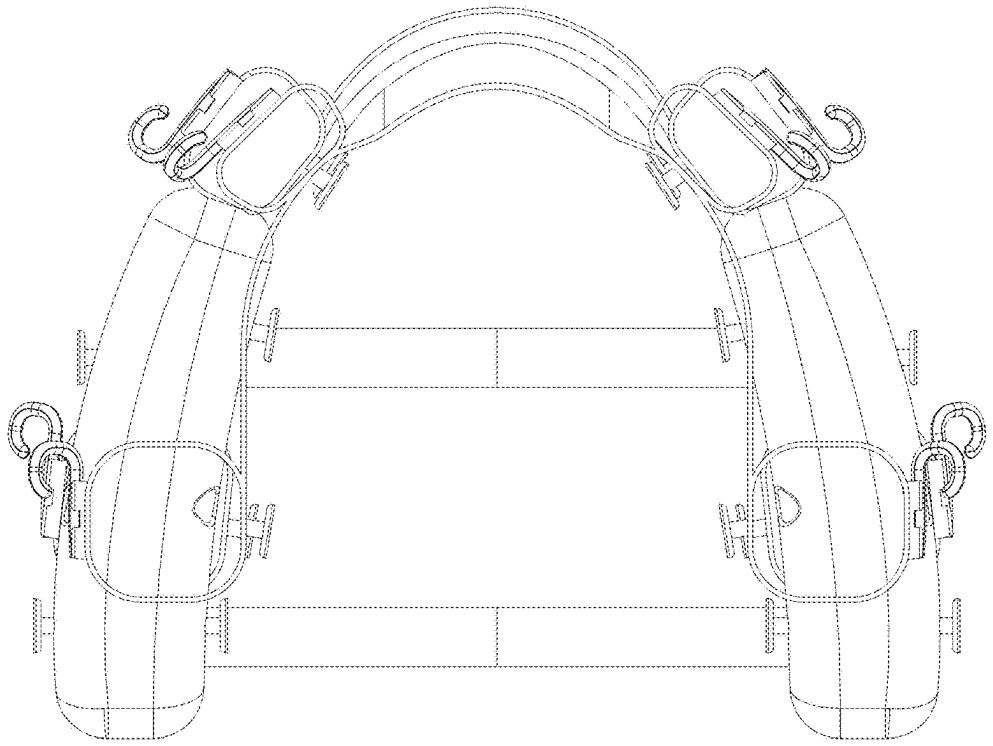

FIG.6

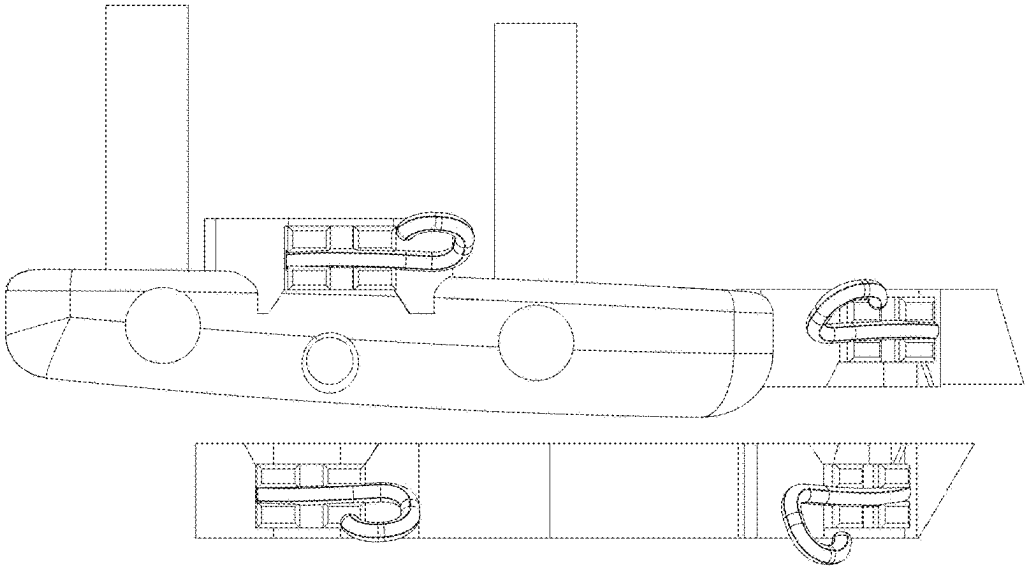

FIG.7

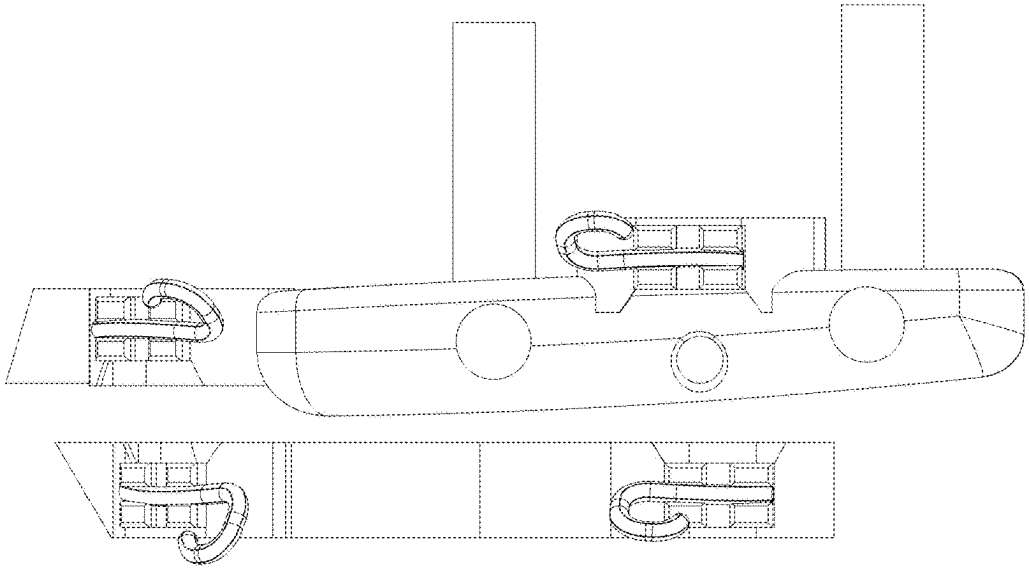

FIG.8

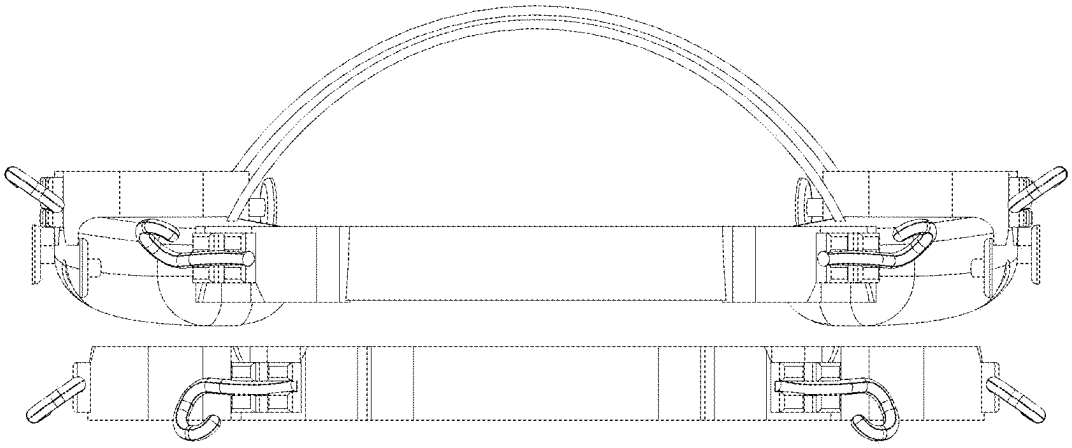

FIG.9

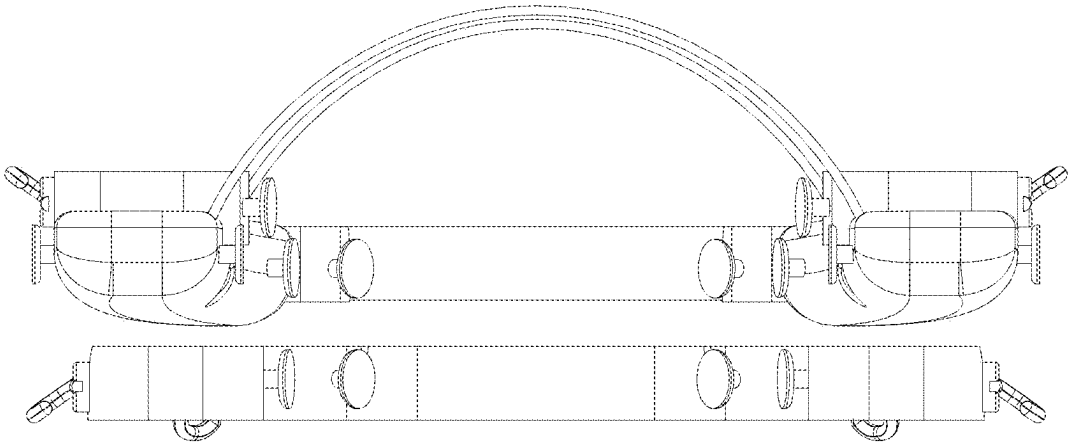

FIG.10

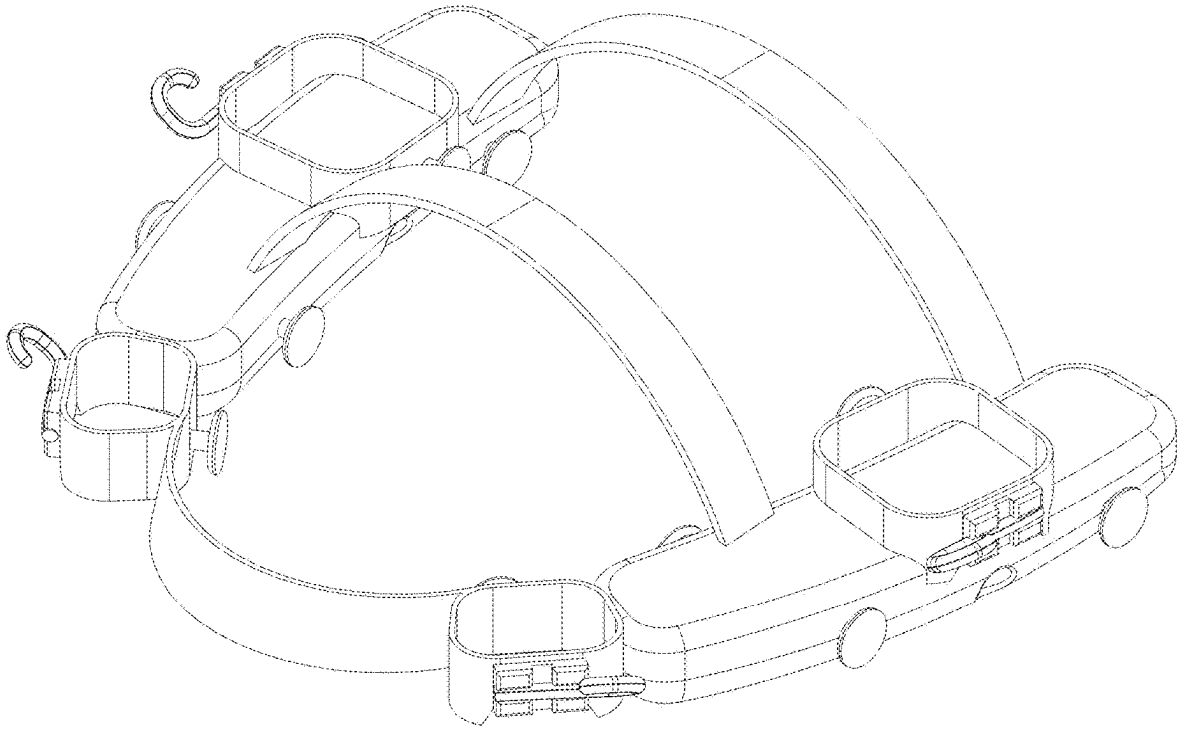

FIG.11

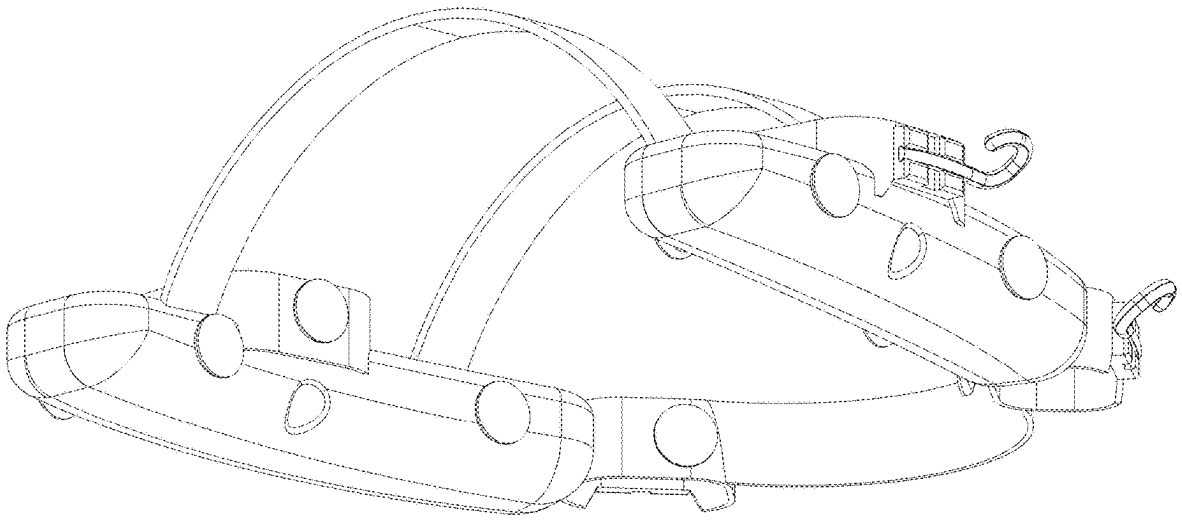

FIG.12

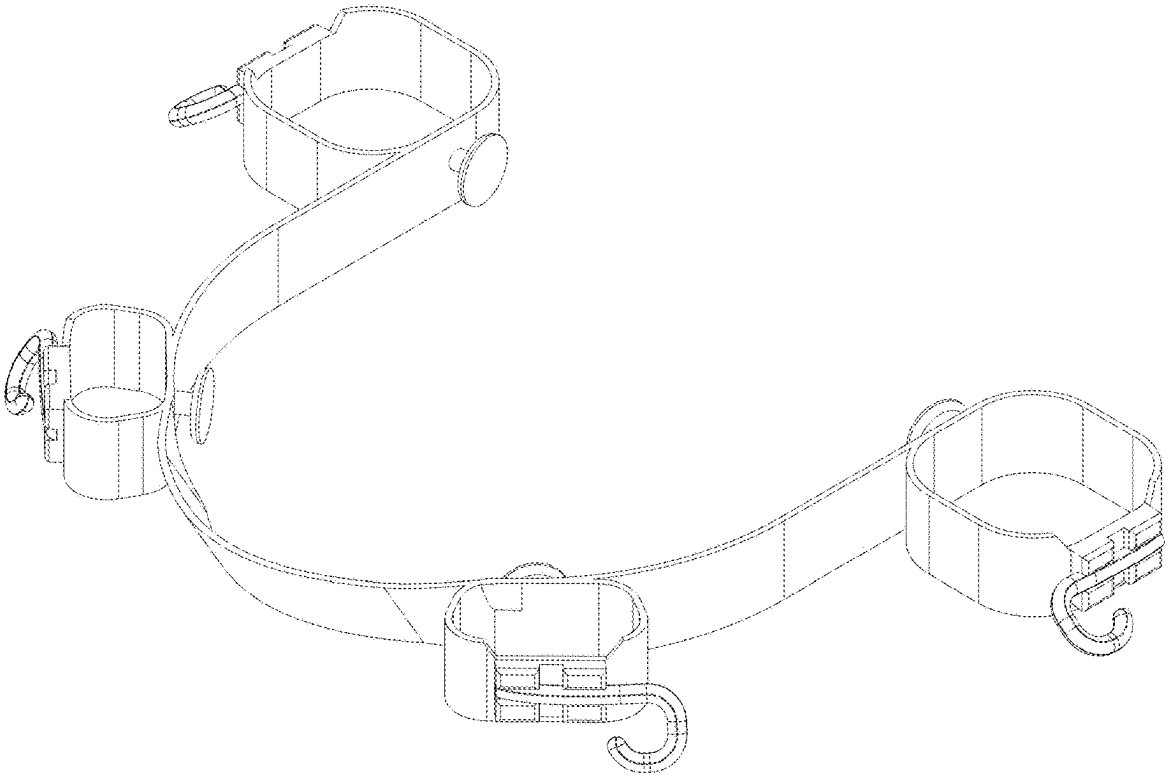

FIG.13

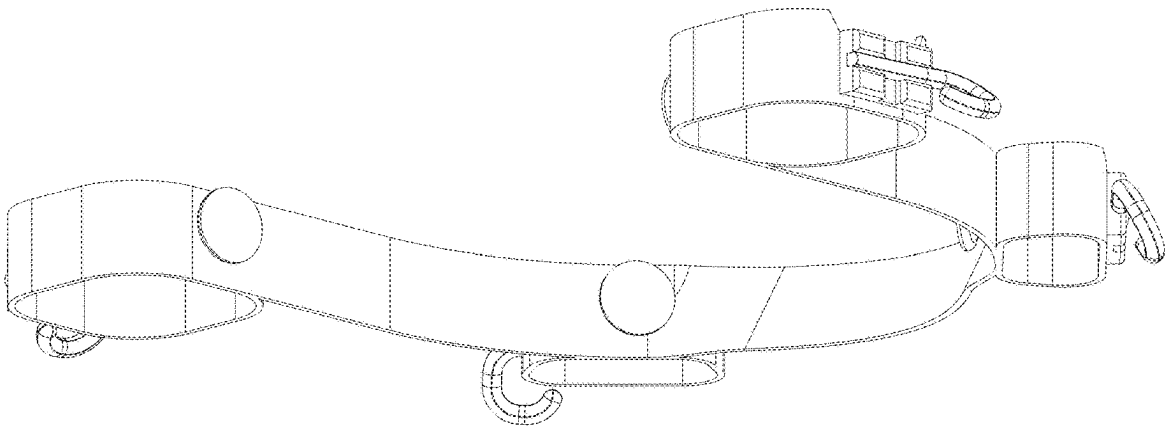

FIG.14