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

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(54) **HEAD WORN DISPLAY WAVE-GUIDE ASSEMBLY**

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(73) Assignee: **Rockwell Collins, Inc.**, Cedar Rapids, IA (US)

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

(21) Appl. No.: **29/570,548**

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(51) **LOC (11) Cl.** **16-99**

(52) **U.S. Cl.**
USPC **D16/130**

(58) **Field of Classification Search**
USPC D14/372, 496, 432; D16/19, 38, 48, 100,
D16/101, 131, 132, 133, 134, 135, 310,
D16/140; D26/142
CPC A42B 3/04; A61B 17/00
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

- 3,336,598 A * 8/1967 Aebersold A42B 3/185
2/10
- D352,046 S * 11/1994 Kataoka D16/130
- D389,826 S * 1/1998 Cousins D14/135
- D458,287 S * 6/2002 Huang D16/135

- D521,493 S * 5/2006 Wai D14/205
- D711,949 S * 8/2014 Koenck D16/130
- D732,025 S * 6/2015 Heinrich D14/372
- D746,818 S * 1/2016 Cho D14/372
- D749,585 S * 2/2016 Olsson D14/372
- D788,832 S * 6/2017 Alles D16/133
- D813,231 S * 3/2018 Yoshida D14/372

* cited by examiner

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(57) **CLAIM**

The ornamental design for a head worn display wave-guide assembly, as shown and described.

DESCRIPTION

FIG. 1 is a perspective view of a head worn display wave-guide assembly showing our new design, the broken lines indicate environmental structure and form no part of the claimed design;

FIG. 2 is a top plan view thereof;

FIG. 3 is a front elevational view thereof;

FIG. 4 is a left side elevational view thereof;

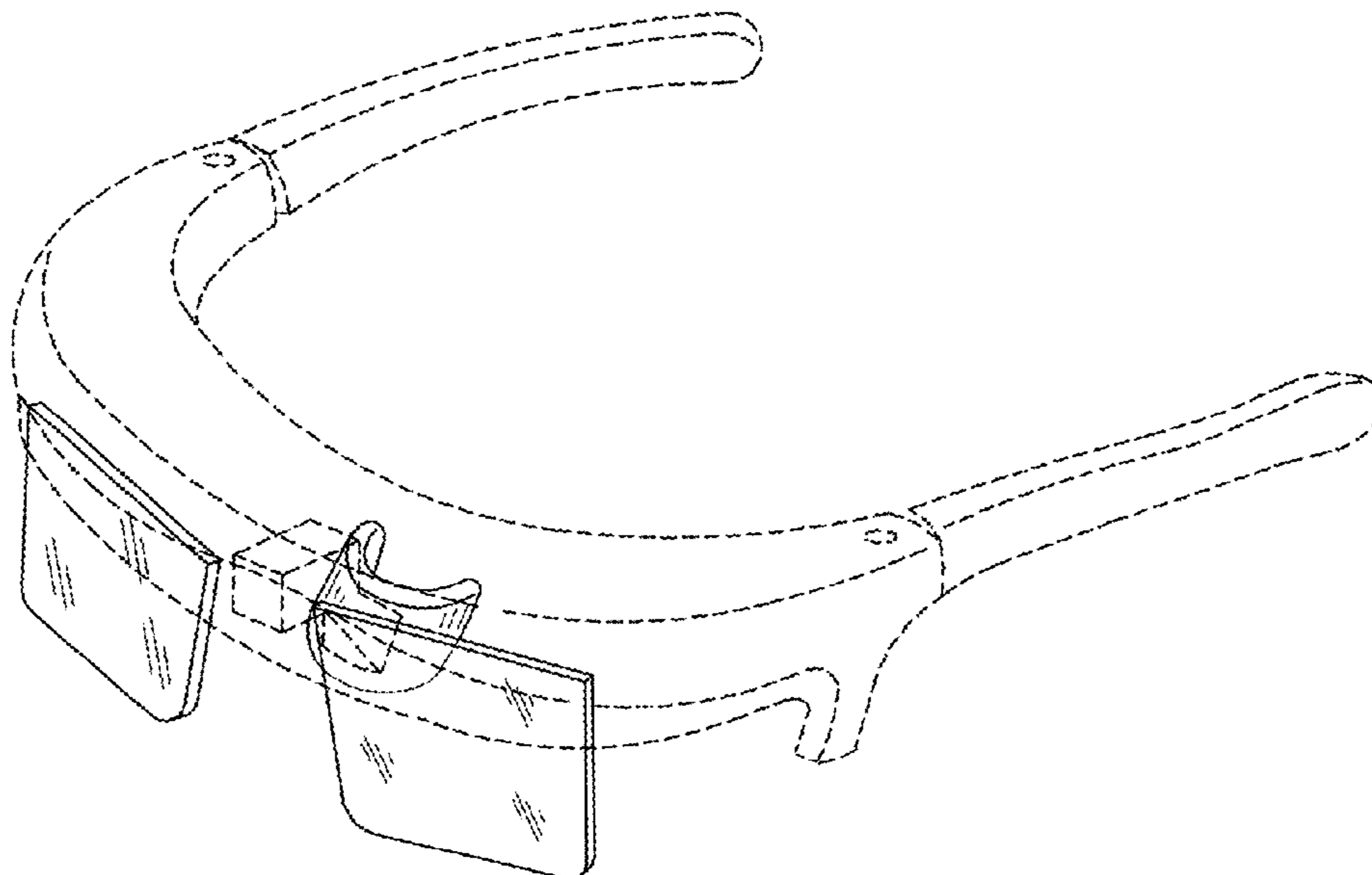
FIG. 5 is a rear elevational view thereof;

FIG. 6 is a right side elevational view thereof; and,

FIG. 7 is a bottom plan view thereof.

The broken-lines of the figures depict a head worn display as well as related elements and various portions environmentally thereof. These broken line features are depicted for illustrative purposes, and form no part of the claimed design.

1 Claim, 7 Drawing Sheets



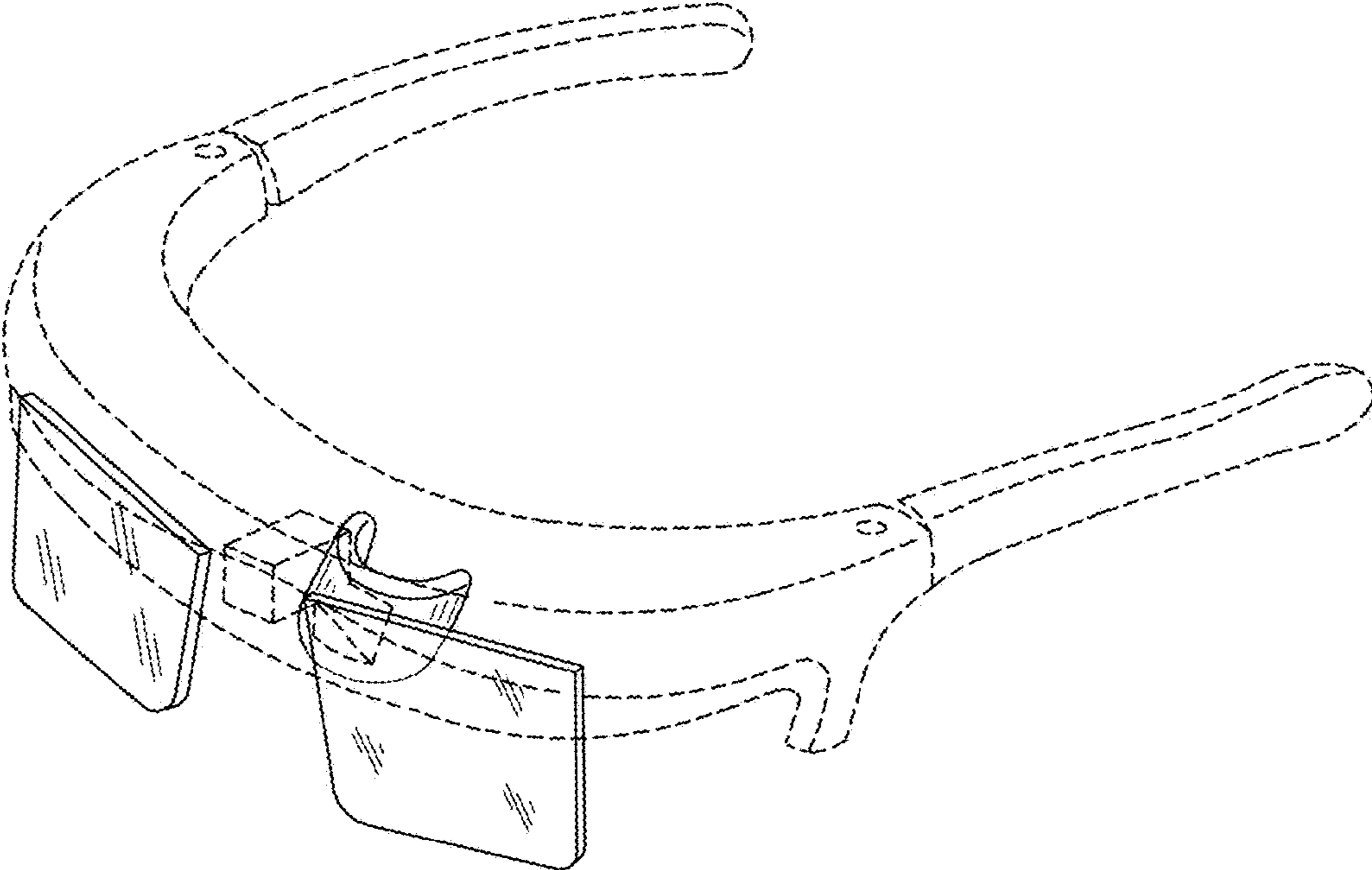


FIG. 1

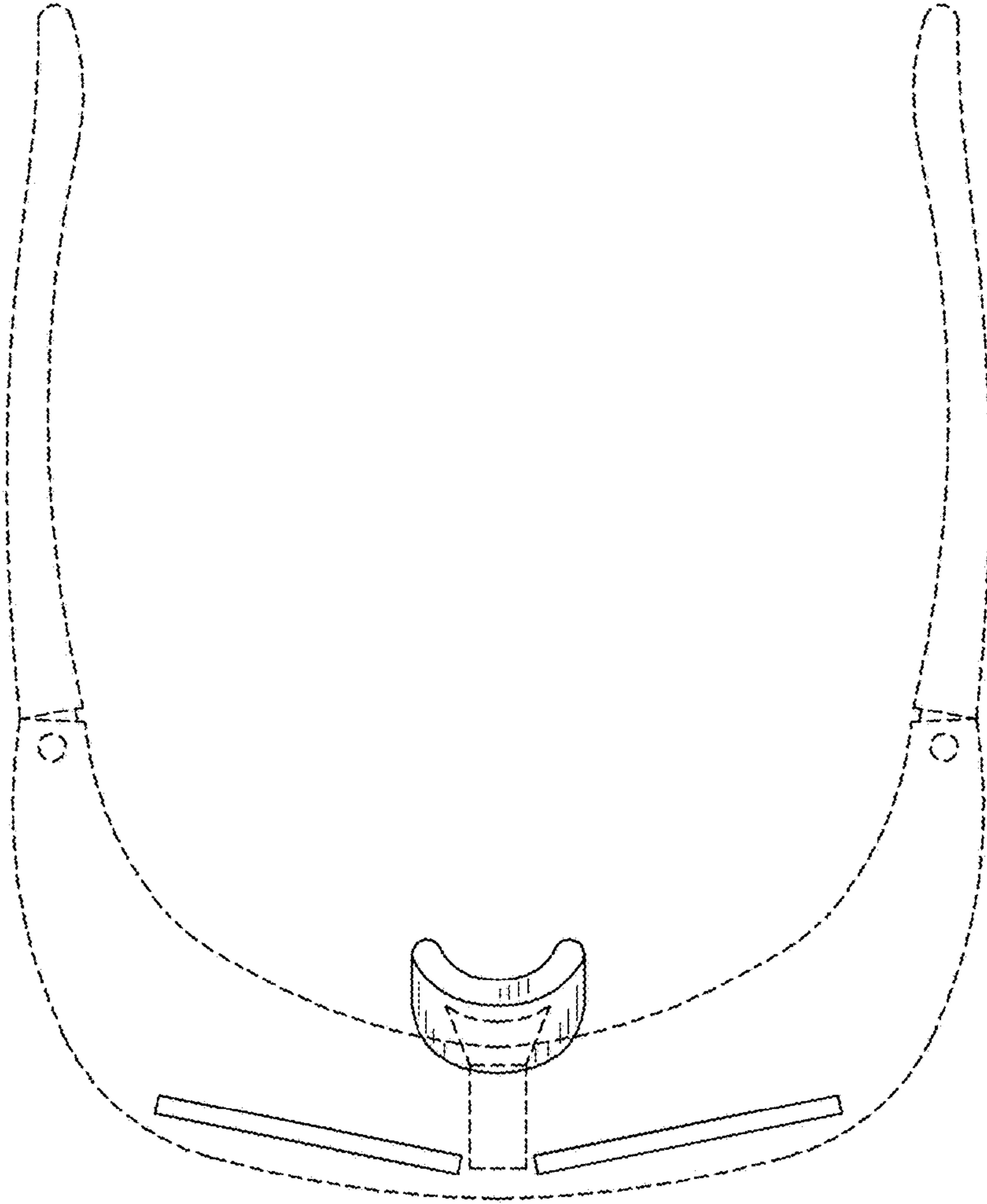


FIG. 2

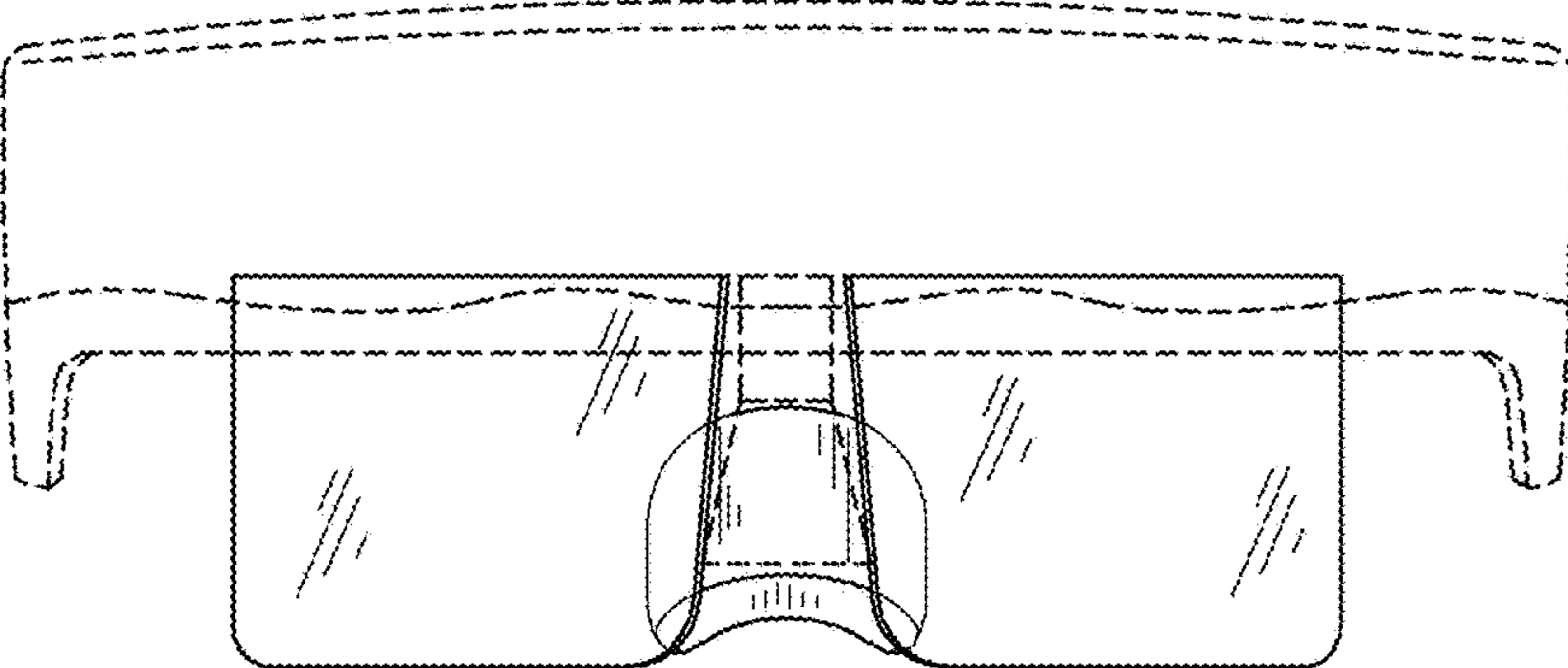


FIG. 3

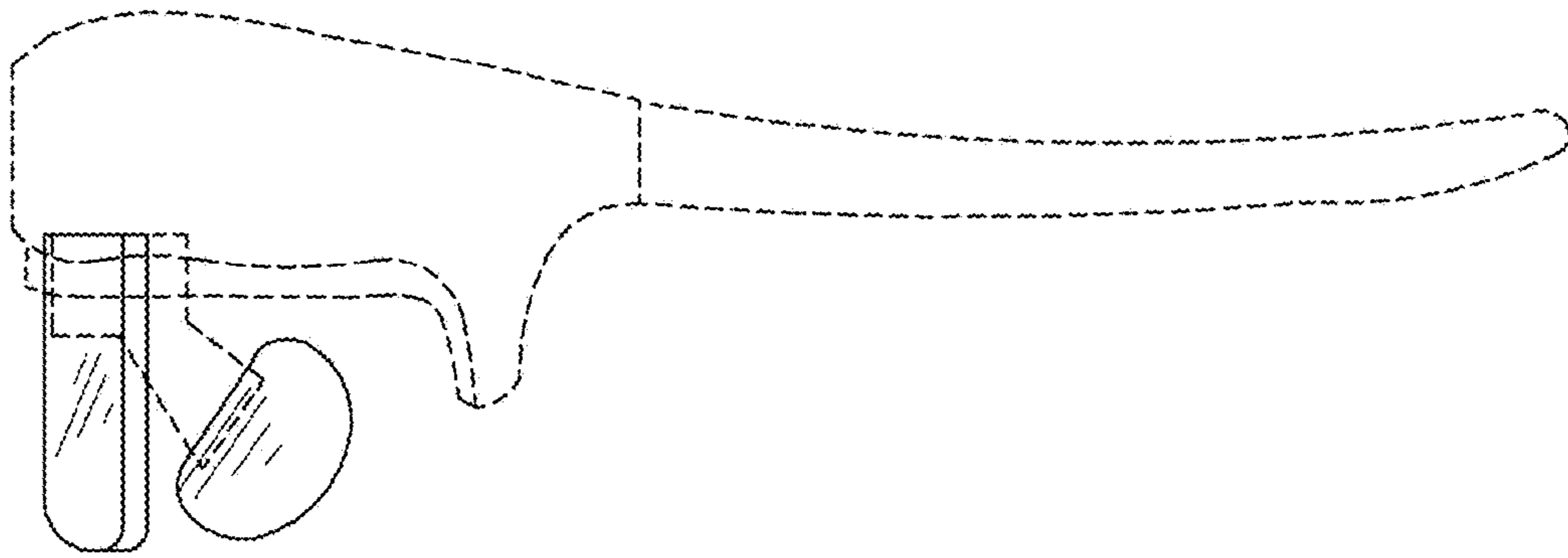


FIG. 4

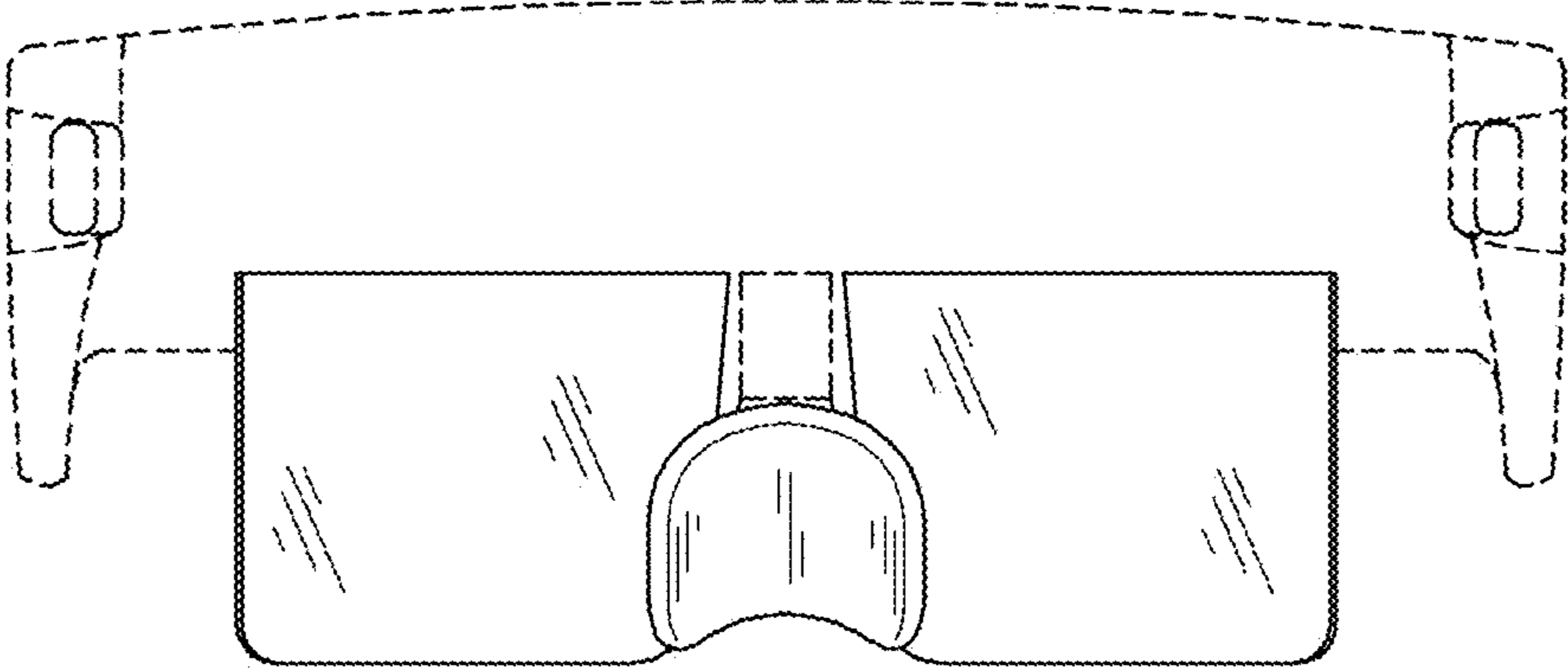


FIG. 5

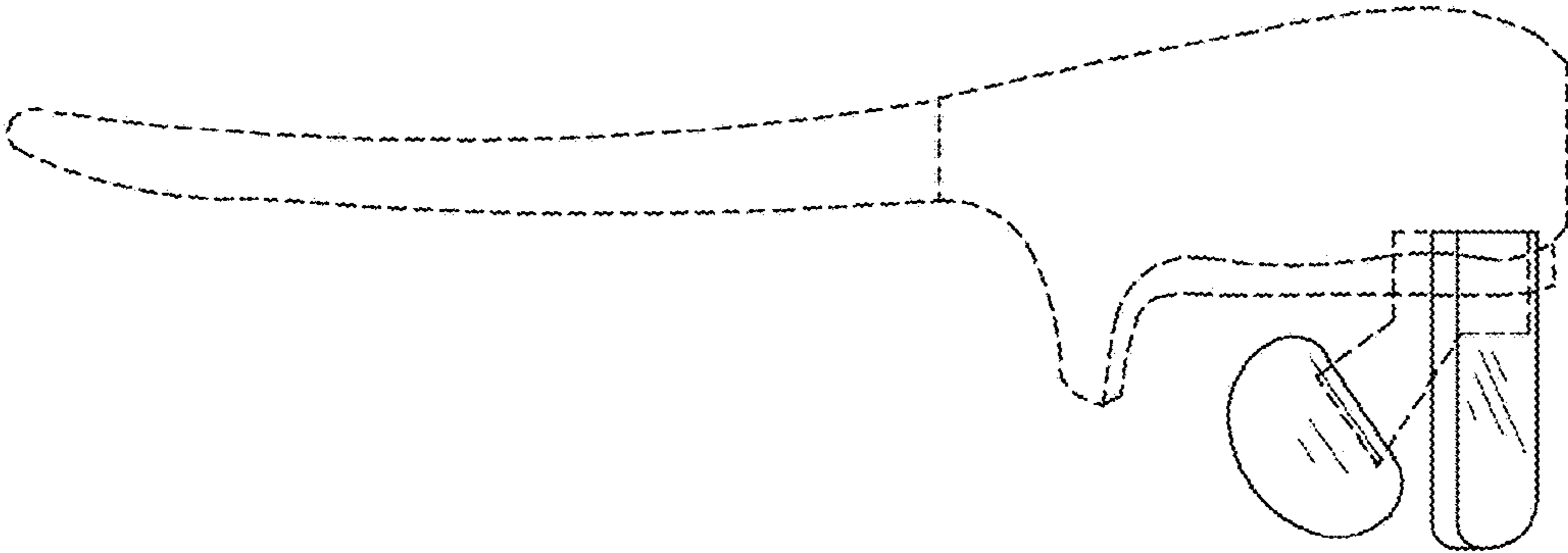


FIG. 6

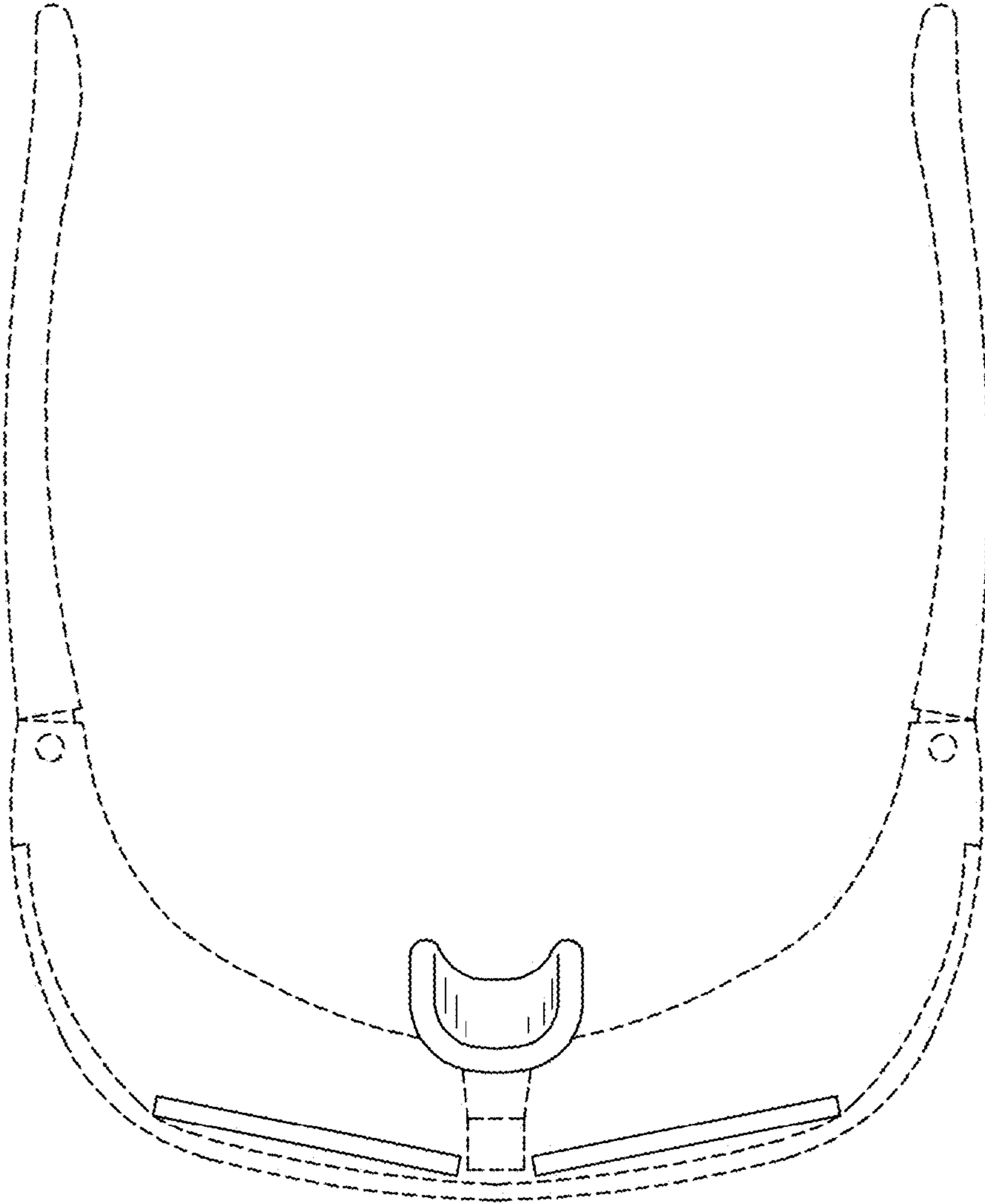


FIG. 7