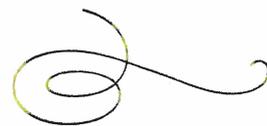
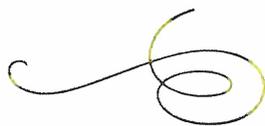


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The Director

of the United States Patent and Trademark Office has received an application for a patent for a new and useful invention. The title and description of the invention are enclosed. The requirements of law have been complied with, and it has been determined that a patent on the invention shall be granted under the law.

Therefore, this United States

Patent

grants to the person(s) having title to this patent the right to exclude others from making, using, offering for sale, or selling the invention throughout the United States of America or importing the invention into the United States of America, and if the invention is a process, of the right to exclude others from using, offering for sale or selling throughout the United States of America, products made by that process, for the term set forth in 35 U.S.C. 154(a)(2) or (c)(1), subject to the payment of maintenance fees as provided by 35 U.S.C. 41(b). See the Maintenance Fee Notice on the inside of the cover.

Katherine Kelly Vidal

DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE



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(12) **United States Patent**
Guo et al.

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(54) **VESTIBULAR SYSTEM EXAMINATION DEVICE**

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(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 201 days.

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A61B 3/113 (2006.01)
A61B 5/398 (2021.01)
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CPC **A61B 5/4023** (2013.01); **A61B 3/113** (2013.01); **A61B 5/398** (2021.01); **A61B 5/4863** (2013.01); **G06F 3/013** (2013.01)

(58) **Field of Classification Search**
CPC **A61B 5/4023; A61B 3/113; A61B 5/4863; A61B 5/0496; G06F 3/013**
See application file for complete search history.

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(57) **ABSTRACT**

A vestibular system examination device includes a platform unit and an examination unit. The platform unit includes a base, a driving mechanism mounted to the base, and a seat mounted to the driving mechanism and adapted for a user to sit thereon. The seat is driven movably and rotatably with six degrees of freedom by the driving mechanism. The examining unit includes a detector adapted for detecting eye movement or electrooculography of the user, a measuring module electrically connected to the platform unit for measuring location and displacement thereof, and a processing module electrically connected to the detector and the measuring module for receiving and processing data acquired from the detector and the measuring module.

10 Claims, 4 Drawing Sheets

