



A DEVICE FOR MEASURING THE MOVEMENT OF VESTIBULAR APPARATUS AND HEAD AND SHOULDER POSITION



Invention details

The device enables measurement of kinematic quantities of body, and head and shoulder movement. The system can be used within the field of medicine for diagnostic and therapeutic purposes in relation to the nervous and musculoskeletal systems. Setting it apart from the competition, the solution records and assesses movement of the upper half of the body within the anatomical coordinate system, including the head. Using the device, medical practitioners can record and quantitatively assess translational and rotational quantities of head, shoulders and vestibular apparatus movement. The device allows for improved therapeutic efficiency in health facilities.

Unique features

- Enables practitioners to record and assess kinematic quantities of head movement in the position of vestibular apparatus and the upper half of the body in relaxed posture.
- Consists of a camera system, accelerometers and gyroscopes which enable clinical examination of vestibular apparatus movement and upright posture without external devices or adjustments to the examination room.
- Includes software for graphic representation of measured data and assessments.
- Enables the examination of all kinds of head and shoulder movement.
- Easy to use in various types of health facilities.

Application and use

The device has been designed for diagnostic and rehabilitation purposes in relation to the movement of vestibular apparatus and the position of the head and shoulders in the fields of medicine and sports therapy and ergonomics.

What are we offering?

We offer a non-exclusive licence for the production and sale of the device for measuring the movement of vestibular apparatus and head and shoulder position.



ORIGINATORS

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INTELLECTUAL PROPERTY

Czech utility model and know-how

TECHNOLOGY LEVEL

Prototype

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