

INNOVATIONACCESS

AVAILABLE TECHNOLOGIES

Request Information

Non-invasive Sleep Quality Measuring Device

Tech ID: 33499 / UC Case 2018-058-0

ABSTRACT

Researchers at the University of California, Davis have developed a sleep quality measuring device to measure waking electroencephalogram (EEG) test to determine the adequacy of sleep

FULL DESCRIPTION

Researchers at the University of California, Davis have developed a non-invasive sleep quality measuring device that includes EEG sensors to determine the EEG power density of the user for determining sleep adequacy. The researchers have found that sleep restriction on the prior night decreases waking EEG power across a wide range of frequency bands. This relation between prior sleep duration and waking EEG power suggests that this measure of waking brain activity could be an easily recorded indicator of sleep adequacy. If patients complaining of insomnia show diminished sleep adequacy by this measure, it would be a new and inexpensive diagnostic aid which could also be used to determine the effectiveness of drug and other treatments.

APPLICATIONS

▶ EEG indicator of adequate sleep

FEATURES/BENEFITS

- Reliable test for sleep adequacy
- Accurate diagnostic and treatment tool for patients with sleeping disorders
- Civilian and military application

RELATED MATERIALS

Shorter sleep durations in adolescents reduce power density in a wide range of waking electroencephalogram frequencies

PATENT STATUS

Country	Туре	Number	Dated	Case
United States Of America	Published Application	20220087600	03/24/2022	2018-058

CONTACT US

CONTACT

Raj Gururajan rgururajan@ucdavis.edu tel: 530-754-7637.



Permalink

INVENTORS

- Campbell, Ian
- ▶ Feinberg, Irwin

OTHER INFORMATION

CATEGORIZED AS

- Medical
- Devices
- ▶ Disease: Central
- Nervous System
- Other
- Rehabilitation
- Sensors &

Instrumentation

Medical

Scientific/Research

RELATED CASES 2018-058-0

University of California, Davis InnovationAccess 1850 Research Park Drive, Suite 100, , Davis,CA 95618

Tel: 530.754.8649 innovationAccess@ucdavis.edu research.ucdavis.edu/u/s/ia Fax: 530.754.7620 © 2024, The Regents of the University of California Terms of use Privacy Notice