

Product Development

Official patent approval for the “actiCAP” EEG cap approaches

The “actiCAP” active electrode system is to be officially recognized as an innovation with a US patent

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Over a year ago, we applied for a US patent for the “actiCAP”, our innovative active electrode cap system for measuring electroencephalography signals (EEG signals). The approval process has now shifted to the next and final phase.

Patents are only granted for genuine innovations that use a totally new method to solve a problem. The impending US patent approval for the actiCAP will demonstrate that it is entirely different from all the other EEG caps on the market. As you all know, the actiCAP offers numerous advantages and makes it possible to carry out research experiments in a time- and cost-efficient manner both in the lab and in the field.

The actiCAP combines active electrodes with a new type of integrated impedance converter (“noise subtraction circuits”), which allows it to transmit the EEG signal with significantly lower levels of noise than traditional active electrode systems. The quality of the impedance measurement is also shown by

the LEDs incorporated in the electrodes. If the contact between the electrode and the scalp is not good enough to allow the successful recording of EEG signals, the corresponding LED lights up in red. If the contact is good (low impedance value), the LED lights up in green.

We are proud that the unique design of the technology integrated in the electrodes (which was developed inhouse) allows a significant reduction in the virtually unavoidable interference with the EEG data caused by external factors (movement and environment artifacts).

Ultimately, it is the interaction of all the components that makes it possible to obtain extremely high-quality data when EEGs are recorded using the actiCAP.

The patent is supposed to be officially issued within the next few months. We’ll keep you posted. ●