

**The method of sound recording from the finger flexors of the human upper limb**

Jan Celichowski, Kazimierz Grottel, Edyta Bichler

A system for the recording of sound generated by finger flexors in human subjects during voluntary activity was made. Acoustic signals were recorded from the skin surface using the microphone electret transducer placed in a cover. Electric signals from the muscles were also recorded from the skin surface using conventional EMG electrodes and the forces of finger flexion were measured in isometric conditions using an inductive force transducer. The upper limb was immobilized during the experiment. The system described enables parallel recordings of finger flexion force, muscle sound and EMG during flexion of a forefinger with changeable forces of different time course.