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Tactile Sensation Testing Device

Healthcare workers rely on gloves to protect themselves and their patients from bacterial infection. However, disciplines such as surgery require a high level of manual dexterity and tactile sensitivity in addition to protective gloves. The quality of medical treatment in such cases is heavily impacted by how well the surgeon can feel through the gloves. EnergyEne has developed a preliminary model in which a known frequency is sent through a glove to receiving microphones on a finger analog device, measuring the damping force. By quantifying the transmission of tactile sensation through medical gloves, this device allows gloves to be categorized to ensure informed glove selection and improved patient outcomes.

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