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(57) Abstract :

A hand wearable device for mitigating tremor in patients with Parkinson's disease, comprising a pair of gloves 101 to cover at least a hand and wrist region of a user, each of the pair constructed with an outer layer 102 to be removable for washing, a middle layer 103 and an inner layer 104, a plurality of sensors to perform multi modal tremor mapping, a plurality of magnetorheological (MR) fluid channels 105 to vary viscosity in response to an applied magnetic field to provide mechanical damping, a plurality of thin shape memory alloy (SMA) wires to contract upon electrical activation and relax when de-energized, a plurality of directional piezoelectric actuators 106 to generate controlled mechanical counter motion, at least one of a visual indicator 107 and an audio output 108 to provide alerts when tremor intensity or other physiological parameters exceed predefined thresholds.

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