

Highly sensitive flexible and wearable strain and pressure sensors

IPR STATUS

Patent has been filed in India and has entered the national phase for filing in PCT (USA)

APPLICATION/ USES

These sensors can be used in the detection of various physiological parameters such as pulse/breathing rate; in detection of severity of symptoms of Parkinson's disease, Rheumatoid Arthritis or other musculoskeletal diseases; in detection of Temporomandibular Joint Dysfunction, etc.

SALIENT FEATURES

- Highly flexible and contourable on human skin
- Highly sensitive
- Low response time and relaxation time

LEVEL/SCALE OF DEVELOPMENT

Proof-of-concept has been developed (lab scale)

LINE MINISTRY MAPPING/USER SECTOR

Department of Health
Medical diagnostic devices

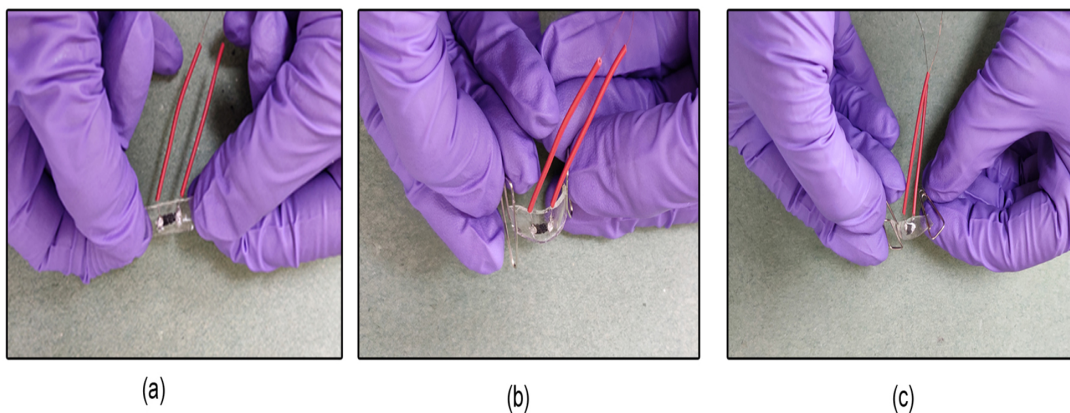


Fig.1 Packaged flexible strain sensor (a) stretched, (b) bent and (c) twisted

