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		8)S.B.S. SAIRAM Address of Applicant :SRI CHANDRASEKHARENDRA SARASWATHI VISWA MAHAVIDYALAYA (SCSVMV), SRI JAYENDRA SARASWATHI STREET, ENATHUR, KANCHIPURAM, TAMILNADU, INDIA, 631 561

(57) Abstract :

Repetitive hand movement is often used as a rehabilitation technique in order to regain hand movement and strength. In order to facilitate this rehabilitation, a robotic glove was designed to aid in the movement and coordination of gripping exercises. This glove utilizes a cable system to open and close a patient's hand. The cables are actuated by servomotors, mounted in a backpack. The glove can be controlled in terms of finger position and grip force through switch interface, software program, or myoelectric signal. This project developed a working prototype of the rehabilitative robotic glove which actuates the fingers over a full range of motion across one degree-of-freedom, and is capable of generating a maximum 15N grip force. This paper shows the implementation of the embedded hand glove and its working procedure can be done to the patient's hand.

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