(12) PATENT APPLICATION PUBLICATION   (21) Application No.202011053498 A

(19) INDIA

(22) Date of filing of Application :09/12/2020   (43) Publication Date : 10/06/2022

(54) Title of the invention : SYSTEM TO FACILITATE DETECTING AND ANALYZING MOVEMENT DEVIATION

(51) International classification	:A61B0005110000, A61B0005000000, G08B0021020000, G06F0003048900, G06F0003010000	(71)**Name of Applicant :** 1)**Chitkara Innovation Incubator Foundation** Address of Applicant :SCO: 160-161, Sector - 9c, Madhya Marg, Chandigarh- 160009, India. Chandigarh India (72)**Name of Inventor :** 1)**SHARMA, Sarang**
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(32) Priority Date	:NA	3)**GUPTA, Deepali**
(33) Name of priority country	:NA	4)**GUPTA, Rupesh**
(86) International Application No	:NA	5)**AHUJA, Rakesh**
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:NA		
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present disclosure pertains to a system to facilitate detecting and analyzing movement deviation. The system (100) includes a flexible device (102) adapted to be worn by an entity, the flexible device (102) including a first set of sensors (104) configured to sense force exerted by the pre-determined part of the entity on the flexible device (102) upon movement, a second set of sensors (106) configured to sense posture and movement of the pre-determined part of the entity, a third set of sensors (108) configured to sense one or more muscles response of the pre-determined part of the entity based on the movement of the one or more muscles. The system (100) includes an input interface (110) configured to receive one or more input credentials from the entity, and a controller (112). The controller (112) is configured to analyze, and detect the movement deviation with help of training and testing dataset and alert the entity.

No. of Pages : 25 No. of Claims : 8