

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211040230 A

(19) INDIA

(22) Date of filing of Application :13/07/2022

(43) Publication Date : 30/12/2022

(54) Title of the invention : A DEVICE FOR DIAGNOSIS OF SOCIAL COMMUNICATION DISORDER

(51) International classification :A61B0005145500, H05B0047100000, G06Q0050220000, G06Q0010060000, A61B0005022000

(86) International Application No :NA  
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

(71)Name of Applicant :

**1)Chitkara University**

Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----

**2)Chitkara Innovation Incubator Foundation**

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

**1)CHAWLA, Muskan**

Address of Applicant :Research Scholar, Department of Computer Science and Engineering, Chitkara University Institute of Engineering and Technology, Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----

**2)PANDA, Surya Narayan**

Address of Applicant :Professor, Chitkara University Research and Innovation Network, Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----

**3)KHULLAR, Vikas**

Address of Applicant :Professor, Chitkara University Research and Innovation Network, Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----

**4)GOEL, Sonu**

Address of Applicant :Professor, Department of Public Health, PGIMER, Madhya Marg, Sector 12, Chandigarh - 160012, India. Chandigarh -----

**5)PANIGRAHI, Prabin Kumar**

Address of Applicant :Professor, Indian Institute of Management Indore, Prabandh Shikhar, Rau - Pithampur Road, Indore, Madhya Pradesh - 453556, India. Indore -----

(57) Abstract :

The present invention is a system 100 and a method for identifying social communication disorders and the severity of a subject 204, the device 102 comprises an audio-visual means, to transmit information related to set of instructions and tasks to be performed by the subject 204 and obtain corresponding response signals, a control unit 304 to receive, extract, and correlate the response signals to diagnose and identify disorders and degree of severity using fuzzy logic and artificial intelligence algorithms.

No. of Pages : 20 No. of Claims : 10