(19) INDIA

(22) Date of filing of Application :01/02/2023

(43) Publication Date: 10/02/2023

(54) Title of the invention : SYSTEM FOR IDENTIFICATION OF NEUROLOGICAL DISORDERS AND SPEECH IMPAIRMENTS

(51) International classification :G10L0025660000, A61B0005080000, G06T0007000000, G10L0021020800, A61B0003140000

(86) International
Application No
Filing Date
(87) International
Publication No
(61) Patent of Addition
:NA

to Application Number :NA
Filing Date
(62) Divisional to

Application Number 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)BAWA, Puneet

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

2)MANTRI, Archana

3)KADYAN, Virender

(57) Abstract:

The system 100 for the identification of neurological disorders and speech impairments. The system includes the neurological disorder identification system 102 and the speech impairment identification system 104. To diagnose neurological disorders, a system with two image acquisition devices 108-1 and 108-2 is featured with rotational mechanisms 110-1 and 110-2 for automatic rotational freedom. The image features from these image acquisition devices 108-1 and 108-2 are processed in the processing system and any abnormality is displayed on display 120. For the identification of the speech impairment, a system of the speech impairment identification system 104 is introduced. The system includes an acoustic signal receiver 124 and a noise subtraction sensor 126 is disposed of for filtering of speech. The speech signal is transmitted to microcontroller 118 for identification.

No. of Pages: 19 No. of Claims: 10