

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202511078354 A

(19) INDIA

(22) Date of filing of Application :18/08/2025

(43) Publication Date : 05/09/2025

(54) Title of the invention : BEAD COUNTING SYSTEM FOR A USER WITH HAND MOTOR DISABILITY

(51) International classification :G06F0003010000, A61B0017000000, H04N0023600000, G06F0021320000, G06Q0050200000

(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 :Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Rajpura -----

2)Chitkara Innovation Incubator Foundation

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Harsimran Jit Kaur

Address of Applicant :Professor, Department of Electronics and Communication Engineering, Chitkara University Institute of Engineering and Technology (CUIET), Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Rajpura -----

(57) Abstract :

A bead counting system for a user with hand motor disability, comprising an exoskeleton 101 resembling a human hand, includes curved hollow members 102 with openings to enable insertion of fingers and thumb of the user, multiple castor balls 104 with suction modules 105 assist in moving the beads continuously at a preset count and time, a microphone 107 listens a mantra chanted repeatedly by the user, a camera 108 analyze type of beads mounted by the user for chanting, a photoelectric sensor 109 count the number of beads passing through and generating a notification about the completion of a revolution, a piezoelectric module 110 generate vibrating alerts in a scenario that the user is taking frequent pauses while chanting, a timer 111 monitor the time taken by the user while moving one bead.

No. of Pages : 24 No. of Claims : 10