

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202311043747 A

(19) INDIA

(22) Date of filing of Application :29/06/2023

(43) Publication Date : 21/07/2023

(54) Title of the invention : AN EXPANDABLE SMART SHOE

(51) International classification :A43D 251800, A47B 450000, B62M 030800, C08J 090000, E21B 431000
(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 Rajpura -----

2)Chitkara Innovation Incubator Foundation

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Dr. Deepali Gupta

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

2)Mr. Ankit Kumar Rai

Address of Applicant :Lane No 8c, Mahamanapuri Colony, ITI Road, Karaundi BHU Lanka, Varanasi- 221005, Uttar Pradesh, India Varanasi -----

3)Ms. Harshita Batra

Address of Applicant :1192, sector 10, Ambala City Ambala, Haryana 134003, India Ambala -----

4)Ms. Monica Dutta

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

(57) Abstract :

ABSTRACT AN EXPANDABLE SMART SHOE A smart shoe (200) for a wearer is provided. The smart shoe (200) comprises an upper portion made of an elastic material, an adjustable sole (204) present at bottom of the smart shoe (200), a microcontroller (206) configured to receive a signal from a smartphone available with the wearer, a motor (212) coupled to the microcontroller (206) and a mini screw jack (202) configured to receive a signal from the microcontroller (206), wherein the mini screw jack is configured to adjust the length of the smart shoe (200) by expanding or contracting. [Figure 1]

No. of Pages : 17 No. of Claims : 10