

पेटेंट कार्यालय
शासकीय जर्नल

**OFFICIAL JOURNAL
OF
THE PATENT OFFICE**

निर्गमन सं. 25/2022
ISSUE NO. 25/2022

शुक्रवार
FRIDAY

दिनांक: 24/06/2022
DATE: 24/06/2022

पेटेंट कार्यालय का एक प्रकाशन
PUBLICATION OF THE PATENT OFFICE

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241035242 A

(19) INDIA

(22) Date of filing of Application :20/06/2022

(43) Publication Date : 24/06/2022

(54) Title of the invention : Smart Blind Stick using ATmega328P Microcontroller

(51) International classification :A61H0003060000, G01S0015930000, H04N0013239000, G02B0013060000, G01N0027120000

(86) International Application No :PCT//
Filing Date :01/01/1900

(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)BABAI K S

Address of Applicant :363, Arcot Road, Kodambakkam, Chennai -24 -----

2)Mrs. S. Soundara bala

3)Mr. S. Manikandan

4)Mr. K. Mano

5)Mr. S. Soundar rajan

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)BABAI K S

Address of Applicant :363, Arcot Road, Kodambakkam, Chennai - 24 -----

2)Mrs. S. Soundara bala

Address of Applicant :Associate Professor, Department of Electrical and Electronics Engineering, Meenakshi Sundararajan Engineering College, Chennai-600024 -----

3)Mr. S. Manikandan

Address of Applicant :Assistant Professor, Department of Electrical and Electronics Engineering, Meenakshi Sundararajan Engineering College, Chennai-600024 -----

4)Mr. K. Mano

Address of Applicant :Department of Electrical and Electronics Engineering, Meenakshi Sundararajan Engineering College, Chennai-600024 -----

5)Mr. S. Soundar rajan

Address of Applicant :Department of Electrical and Electronics Engineering, Meenakshi Sundararajan Engineering College, Chennai-600024 -----

(57) Abstract :

SMART BLIND STICK USING ATmega328 Visually impaired or blind people find themselves very difficult to go out independently. To solve this problem a smart stick is designed to make them self-reliant. This device is integrated with ultrasonic sensor which is controlled by Arduino Nano. This device senses the obstacles in front of them at a distance of 1 meter with a sensing angle of 30degree cone coverage and alerts the user by giving a beep sound. The salient features of this invention are compact in size, cost effective, rechargeable battery, waterproofing ability and support for portability which provides a robust solution for the users.

No. of Pages : 15 No. of Claims : 7