

पेटेंट कार्यालय
शासकीय जर्नल

**OFFICIAL JOURNAL
OF
THE PATENT OFFICE**

निर्गमन सं. 32/2024
ISSUE NO. 32/2024

शुक्रवार
FRIDAY

दिनांक: 09/08/2024
DATE: 09/08/2024

पेटेंट कार्यालय का एक प्रकाशन
PUBLICATION OF THE PATENT OFFICE

INTRODUCTION

In view of the recent amendment made in the Patents Act, 1970 by the Patents (Amendment) Act, 2005 effective from 01st January 2005, the Official Journal of The Patent Office is required to be published under the Statute. This Journal is being published on weekly basis on every Friday covering the various proceedings on Patents as required according to the provision of Section 145 of the Patents Act 1970. All the enquiries on this Official Journal and other information as required by the public should be addressed to the Controller General of Patents, Designs & Trade Marks. Suggestions and comments are requested from all quarters so that the content can be enriched.

**(PROF. (DR) UNNAT P. PANDIT)
CONTROLLER GENERAL OF PATENTS, DESIGNS & TRADE MARKS**

09th AUGUST, 2024

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411057187 A

(19) INDIA

(22) Date of filing of Application :27/07/2024

(43) Publication Date : 09/08/2024

(54) Title of the invention : BLINK-BASED HOME ACCESS SYSTEM FOR DISABLED INDIVIDUALS

(51) International classification :G06N0003040000, H04L0012280000, G06N0003080000, G06F0003010000, G02B0027010000

(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)Swami Rama Himalayan University

Address of Applicant :Swami Rama Himalayan University, Swami Ram Nagar, Jolly Grant, Dehradun, Uttarakhand, 248016, India Dehradun -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Dr. Shachi Mall

Address of Applicant :School of Computer Science and Engineering, Galgotias University, Greater Noida, U.P., India Greater Noida -----

2)Dr. Deepak Srivastava

Address of Applicant :Department of Computer Science, Himalayan School of Science and Technology, Swami Rama Himalayan University, Jollygrant Dehradun, 248016 Dehradun -----

3)Dr. S. Premkumar

Address of Applicant :School of Computer Science and Engineering, Galgotias University, Greater Noida, U.P., India Greater Noida -----

4)Dr. Vibhor Sharma

Address of Applicant :Department of Computer Science, Himalayan School of Science and Technology, Swami Rama Himalayan University, Jolly grant Dehradun, 248016 Dehradun -----

5)Dr. Pramod Kumar

Address of Applicant :Department of Computer Science, Himalayan School of Science and Technology, Swami Rama Himalayan University, Jollygrant Dehradun, 248016 Dehradun -----

(57) Abstract :

The present invention provides a blink-based home access system for disabled individuals. The present invention relates to the field of IoT Disabled Individuals eye Blink-Based Home Access Solution and the rise of smart home technologies has revolutionized the way we interact with our living spaces, offering convenience, efficiency, and automation. The method thereof designed to inform, for individuals with disabilities, accessing and controlling smart home devices through eye smart glass for disabled individuals using an Eye Blink. Physically handicapped individuals often face challenges in performing everyday tasks independently. This design proposes a novel solution to empower them by enabling the control of light switches using eye blinks, facilitated by IoT technology. The system will authenticate the user's eyes using convolutional neural networks (CNNs) and utilize Mobile Net implemented on an edge device attached to spectacles for blink detection.

No. of Pages : 26 No. of Claims : 6