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पेटेंट कार्यालय का एक प्रकाशन  
PUBLICATION OF THE PATENT OFFICE

(54) Title of the invention : SYSTEM AND METHOD FOR SIM CARD TRAY AUTOMATIC EJECTION AND RETRACTION BY USER AUTHENTICATION

<p>(51) International classification :H04W0012060000, H04B0001381600, G06K0013080000, H04B0001381800, H01R0012710000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : <b>1)LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING</b> Address of Applicant :Lakireddy Bali Reddy College Of Engineering, L.B.Reddy Nagar, Krishna District, Mylavaram, Andhra Pradesh 521230, India. Mylavaram -----</p> <p><b>Name of Applicant : NA</b> <b>Address of Applicant : NA</b></p> <p>(72)Name of Inventor : <b>1)Arjun Uddagiri</b> Address of Applicant :Student, Department of Computer Science and Engineering, Lakireddy Bali Reddy College of Engineering, L.B.Reddy Nagar, Krishna District, Mylavaram, Andhra Pradesh Mylavaram -----</p> <p><b>2)Eswar Pragada</b> Address of Applicant :Student, Department of Mechanical Engineering, Lakireddy Bali Reddy College of Engineering, L.B.Reddy Nagar, Krishna District, Mylavaram, Andhra Pradesh 521230, India. Mylavaram -----</p> <p><b>3)Dr. D. Veeraiah</b> Address of Applicant :Department of Computer Science and Engineering, Lakireddy Bali Reddy College of Engineering, L.B.Reddy Nagar, Krishna District, Mylavaram, Andhra Pradesh 521230, India Mylavaram -----</p> <p><b>4)Dr. D. Venkata Subbaiah</b> Address of Applicant :Department of Computer Science and Engineering, Lakireddy Bali Reddy College of Engineering, L.B.Reddy Nagar, Krishna District, Mylavaram, Andhra Pradesh 521230, India Mylavaram -----</p> <p><b>5)Yanduru Neha</b> Address of Applicant :Student, Department of Computer Science and Engineering, Lakireddy Bali Reddy College of Engineering, L.B.Reddy Nagar, Krishna District, Mylavaram, Andhra Pradesh 521230, India Mylavaram -----</p> <p><b>6)Dr. Satyanarayana Talam</b> Address of Applicant :Department of Electronics and Communication Engineering (ECE), Lakireddy Bali Reddy College of Engineering, L.B.Reddy Nagar, Krishna District, Mylavaram, Andhra Pradesh 521230, India Mylavaram -----</p> <p>-</p> <p><b>7)Dr. Seelam Pichi Reddy</b> Address of Applicant :Department of Mechanical Engineering, Lakireddy Bali Reddy College of Engineering, L.B.Reddy Nagar, Krishna District, Mylavaram, Andhra Pradesh 521230, India Mylavaram -----</p>
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(57) Abstract :

Exemplary embodiments of the present disclosure are directed towards a system for SIM card tray automatic ejection and retraction, featuring user authentication, involves a first computing device housing a secure SIM access control module. This module allows user registration by storing credentials data and enables the initiation of SIM card tray ejection upon successful validation. The user interface module presents options, including eject and admit, with the former triggering a request to a processing device. Upon receiving the ejection request, the processing device commands a controlling unit to activate a stepper motor through a motor driver, mechanically coupled to the SIM card tray, facilitating ejection. The admit option permits retraction after user actions like inserting or removing the SIM card. The system seamlessly integrates user authentication with automated SIM tray operations, ensuring secure user-controlled management of SIM cards. Fig. 1

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