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(12) PATENT APPLICATION PUBLICATION

(19) INDIA

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(43) Publication Date : 21/03/2025

(54) Title of the invention : DRIVE MENTOR SAFEGUARD TO NOVICE DRIVER

(51) International classification :G08B0021020000, F02D0011040000, B62K0003000000, B60Q0001440000, B62K0011140000
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(57) Abstract :

Learning to drive a gearless scooter can be intimidating, especially due to the fear of sudden acceleration, which may lead to accidents or trauma. Traditional solutions like throttle limiter levers pose safety risks, particularly during falls. This project introduces a plug-and-play throttle control device designed to prevent accidental acceleration by regulating ignition. When the throttle exceeds the preset limit, the ignition is cut off, ensuring a safe learning experience. The device is universally compatible with all petrol gearless scooters and can be installed in under 30 minutes without modifying the vehicle's wiring. It features an adjustable throttle cutoff, a turn-off switch for multiple users, and an LED indicator for ease of use. A buzzer alerts the rider when excessive acceleration is detected, allowing safe deceleration. Once confidence is gained, the device can be removed without affecting the scooter's original setup. This innovation provides a safer and more supportive learning experience.

No. of Pages : 18 No. of Claims : 10



क्रम सं/ Serial No. : 184560



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डिजाइन के पंजीकरण का प्रमाण पत्र | Certificate of Registration of Design

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डिजाइन सं. / Design No.

پارسپریکتا تاریخ / Reciprocity Date* :

देश / Country

प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो *EDGE-OPTIMIZED GRAPH PROCESSING DEVICE* से संबंधित है, का पंजीकरण, श्रेणी 14-02 में 1.Rahul Ravi 2. Dr. S. Deepa 3.Mrs. C. Ruby Sharmila 4.Dr. M. Siva Parvathi 5.G. Keerthi 6.Dr. K. Manjula 7.Charanjit Singh के नाम में उपर्युक्त संख्या और तारीख में कर लिया गया है।

Certified that the design of which a copy is annexed hereto has been registered as of the number and date given above in class 14-02 in respect of the application of such design to *EDGE-OPTIMIZED GRAPH PROCESSING DEVICE* in the name of 1. Rahul Ravi 2. Dr. S. Deepa 3. Mrs. C. Ruby Sharmila 4. Dr. M. Siva Parvathi 5. G. Keerthi 6. Dr. K. Maniula 7. Charanjiit Singh.

डिजाइन अधिनियम, 2000 तथा डिजाइन नियम, 2001 के अध्यधीन प्रावधानों के अनुसरण में।

In pursuance of and subject to the provisions of the Designs Act, 2000 and the
Designs Rules, 2001.

जारी करने की तिथि : Date of Issue : 12/11/2024

महानयक्त्रक पट्ट, डिजाइन आर व्यापार चिह्न
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(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :07/03/2025

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(43) Publication Date : 21/03/2025

(54) Title of the invention : GATESENSE REAL-TIME RAILWAY GATE STATUS AND TRAFFIC OPTIMIZATION SYSTEM

(51) International classification	:G08G0001010000, G06Q0090000000, B29L0031000000, G06Q0030018000, H04L0009000000	(71) Name of Applicant : 1)SCMS SCHOOL OF ENGINEERING AND TECHNOLOGY (SSET) Address of Applicant :Vidya Nagar, Palissery, Karukutty, Ernakulam - 683576, Kerala, India Ernakulam ----- 2)Abhinav Thaj 3)Adith Binoy 4)Vishal Venugopal 5)Vinayak Jaimohan 6)Jayant C Krishnan Name of Applicant : NA Address of Applicant : NA
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(87) International Publication No	: NA	
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(57) Abstract :

In rapidly developing countries like India, railways are a crucial mode of transportation, but inadequate human supervision at level crossings leads to frequent accidents. To address this, technological advancements are essential. This study explores two key solutions: automating railway gate operations and implementing real-time monitoring. Automated gate control uses strategically placed sensors near crossings to detect approaching trains, sending signals to a controller that activates motors for seamless gate closure and opening, reducing human intervention. Additionally, real-time monitoring ensures that gatekeepers do not forget to close gates or relay security codes, minimizing accident risks. A system using microcontrollers, LCD displays, and proximity sensors is proposed to detect gate status and generate security codes automatically. GateSense enhances this approach by integrating real-time monitoring with predictive algorithms, sensors, and cameras, providing live railway gate updates and optimizing traffic flow. Designed for smart cities, it benefits emergency services, daily commuters, and urban mobility by reducing delays and fuel consumption.

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