(12) PATENT APPLICATION PUBLICATION   (21) Application No.202311041891 A

(19) INDIA

(22) Date of filing of Application :23/06/2023   (43) Publication Date : 21/07/2023

(54) Title of the invention : SYSTEM AND METHOD FOR DETECTING AND PENALIZING OVERLOADED HEAVY MOTOR VEHICLE

(51) International classification :G06F 162457, G08G 010170, H03M 132900, H04B 017105, H04W 280800	(71)**Name of Applicant :** 　**1)Chitkara University** 　　Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala ----------- ----------- 　**2)Chitkara Innovation Incubator Foundation** **Name of Applicant : NA** **Address of Applicant : NA** (72)**Name of Inventor :** 　**1)GUPTA, Monika** Address of Applicant :Chitkara Business School, Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala ----------- ----------- 　**2)SHARMA, Vandana** Address of Applicant :Galgotias University, School of Computing Science and Engineering, Plot No.2, Sector 17-A, Yamuna Expressway, Greater Noida - 201310, Uttar Pradesh, India. Greater Noida ----------- ----------- 　**3)BALUSAMY, Balamurugan** Address of Applicant :Shiv Nadar University, NH91, Tehsil Dadri, Greater Noida, Uttar Pradesh – 201314, India. Greater Noida ----------- -----------
(86) International Application No 　Filing Date :NA :NA	
(87) International Publication No : NA	
(61) Patent of Addition to Application Number 　Filing Date :NA :NA	
(62) Divisional to Application Number 　Filing Date :NA :NA	

(57) Abstract :
The present disclosure relates to an automated system (100) for detecting and penalizing overloaded heavy motor vehicles (HMVs) on roads. The system (100) includes a detection module (102) placed on the road and configure to detect one or more parameters, such as load of the vehicle, speed of the vehicle, movement of the vehicle, and distance of the vehicle from an object or a surface. The system (100) includes a centralized web server (116) for tracking the location and movement of HMVs and storing data collected from the sensors. The system (100) further includes an application dashboard (126) accessible to authorities for monitoring the collected data, identifying violation of road safety rule and regulation caused by HMV, and penalizing a user responsible for the violation.

No. of Pages : 26 No. of Claims : 10