

(54) Title of the invention : AUTOMATED SYSTEM TO ALERT AND IMPOSE PENALTY ON A VEHICLE FOR INAPPROPRIATE DRIVING PATTERN

<p>(51) International classification :G08G0001160000, G06K0009000000, G06T0007246000, B60Q0009000000, G06F0003010000</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 : 1)Chitkara University Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. -----</p> <p>2)Chitkara Innovation Incubator Foundation Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)SOOD, Vandana Mohindru Address of Applicant :Chitkara University Institute of Engineering & Technology, Chitkara University, Chandigarh-Patiala National Highway, Village Jansla, Rajpura, Punjab - 140401, India. -----</p> <p>2)NARANG, Sushil Address of Applicant :Chitkara University Institute of Engineering & Technology, Chitkara University, Chandigarh-Patiala National Highway, Village Jansla, Rajpura, Punjab - 140401, India. -----</p> <p>3)AHUJA, Sachin Address of Applicant :Chitkara University Institute of Engineering & Technology, Chitkara University, Chandigarh-Patiala National Highway, Village Jansla, Rajpura, Punjab - 140401, India. -----</p> <p>4)KAUR, Amandeep Address of Applicant :Chitkara University Institute of Engineering & Technology, Chitkara University, Chandigarh-Patiala National Highway, Village Jansla, Rajpura, Punjab - 140401, India. -----</p> <p>5)LILHORE, Umesh Kumar Address of Applicant :Chitkara University Institute of Engineering & Technology, Chitkara University, Chandigarh-Patiala National Highway, Village Jansla, Rajpura, Punjab - 140401, India. -----</p> <p>6)HOODA, Susheela Address of Applicant :Chitkara University Institute of Engineering & Technology, Chitkara University, Chandigarh-Patiala National Highway, Village Jansla, Rajpura, Punjab - 140401, India. -----</p> <p>7)SINGLA, Anshu Address of Applicant :Chitkara University Institute of Engineering & Technology, Chitkara University, Chandigarh-Patiala National Highway, Village Jansla, Rajpura, Punjab - 140401, India. -----</p> <p>8)GARG, Kamal Deep Address of Applicant :Chitkara University Institute of Engineering & Technology, Chitkara University, Chandigarh-Patiala National Highway, Village Jansla, Rajpura, Punjab - 140401, India. -----</p>
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(57) Abstract :

The present disclosure discloses a system (100) and method for detecting an inappropriate driving pattern of a vehicle and correspondingly alert and imposing a penalty on the vehicle. The system (100) comprises image acquisition units (102) to obtain images of roads of a pre-defined area, and receive speed of the vehicles from the sensors (112). In addition, the system (100) comprises a processing unit (104) to analyse the received images using one or more image analysis techniques to identify one or more vehicles on the roads. In addition, driver of the vehicle is notified upon detection of any or a combination of the speed and the lane change event beyond a first predefined range, and a penalty is imposed on the vehicles, upon detection of any or a combination of the speed and the lane change event beyond a second predefined range.

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