

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202311019179 A

(19) INDIA

(22) Date of filing of Application :21/03/2023

(43) Publication Date : 12/05/2023

(54) Title of the invention : LANE DEPARTURE WARNING SYSTEM AND METHOD THEREOF

(51) International classification :B60Q 090000, B60W 301200, B60W 501400, G06T 071740, G08G 011600
(86) International Application No :PCT//
Filing Date :01/01/1900
(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

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(57) Abstract :

The present invention provides a lane departure warning system (100) for vehicles, which includes a sensor (102) for detecting the position of the vehicle relative to a plurality of lane markings on a roadway, and a processor (104) to determine whether the vehicle is drifting out of the lane from data received from the sensor. Additionally, the system includes an alerting device (106) to emit a warning signal to notify the driver when the vehicle is drifting out of the lane, and a steering control unit (108) to adjust a steering of the vehicle to keep it within the associated lane markings. The system contributes to increased driver awareness, accident risk reduction, enhanced passenger safety, and increased fuel efficiency. The system may be configured to activate only when the vehicle is traveling above a predetermined speed threshold and can be integrated with other safety systems in the vehicle.

No. of Pages : 21 No. of Claims : 10