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(54) Title of the invention : HAND-BRAKE NOTIFICATION SYSTEM IN VEHICLE AND A VEHICLE THEREOF (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 (51) International :B60Q1/44, B60Q1/50, B60Q9/00, (72)Name of Inventor: classification B60T17/22, B60W50/14 1)SHIKHA (86) International Application :NA Address of Applicant : Chitkara University, Chandigarh-Patiala No National Highway, Village Jhansla, Rajpura, Punjab - 140401, :NA India. Patiala -----Filing Date (87) International Publication : NA 2)GUPTA, Deepali Address of Applicant : Chitkara University, Chandigarh-Patiala No National Highway, Village Jhansla, Rajpura, Punjab - 140401, (61) Patent of Addition to :NA Application Number India. Patiala -----:NA Filing Date **3)RAMNEET** (62) Divisional to Application_{:NA} Address of Applicant : Chitkara University, Chandigarh-Patiala Number National Highway, Village Jhansla, Rajpura, Punjab - 140401, :NA Filing Date India. Patiala -----**4)CHETNA** Address of Applicant : Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----5)MITTAL, Anu Address of Applicant :Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala – 147004,

(57) Abstract :

The present disclosure relates to a hand-brake notification system implemented in a vehicle and a vehicle thereof. It involves confirming, at block 302, that the vehicle is turned off, and further the NC switch 106 gets actuated, at block 304. At block 306, status of the hand-brake switch 104 is determined. At block 308, when the hand-brake switch 104 is determined to be connected/ actuated, at block 310, the timer 114 is set, to enable, at block 312, triggering of the buzzer 108 and illuminating the light emitting source 112 for a pre-defined time-period. The buzzer 108 gets triggered, and correspondingly generates an acoustic signal for the pre-defined time-period to notify a user associated with the vehicle 110 about the status of the hand-brake. At block 314, when the hand-brake switch 104 is determined to be disconnected, at block 316, the system 100 disengages the circuit 200.

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