

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411021682 A

(19) INDIA

(22) Date of filing of Application :21/03/2024

(43) Publication Date : 26/04/2024

(54) Title of the invention : VEHICLE COMMUNICATION SYSTEM AND METHOD THEREOF

(51) International classification :G08G0001160000, G06F0003041000, G08G0001096700, H04N0021436000, E01F0015040000

(86) International Application No :NA  
Filing Date :NA

(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

(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)RANI, Shalli**  
 Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----  
**2)KUMAR, Ishan**  
 Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----  
**3)GOEL, Kavya**  
 Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----

(57) Abstract :  
 The system (100) incorporates a display device (102), transmitter (104), radar sensors(106), and receiver (112) within vehicles, fostering wireless communication among proximate vehicles on the road. The system include a touch-sensitive interface and microphone integration in the display device, allowing versatile user inputs. The transmitter modulates carrier signals based on generated data, considering priority levels for efficient communication. The display device offers visual alerts and notifications based on received information. Furthermore, the system utilizes a collision avoidance algorithm that utilizes radar data to generate warnings displayed on the device. These functionalities collectively contribute to an advanced vehicular communication ecosystem, promising enhanced road safety, traffic efficiency, and driver experience.

No. of Pages : 19 No. of Claims : 10