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(71)**Name of Applicant :**
1)Domala Kishore Babu
Address of Applicant :Dr. Domala Kishore Babu, Door No 8-18-7, Anandapet, Perala, Chirala 523157, Bapatla District, Andhra Pradesh, India ---------- ----------
2)Ratna Sunil Buradagunta,
Name of Applicant : NA
Address of Applicant : NA
(72)**Name of Inventor :**
1)Domala Kishore Babu
Address of Applicant :Dr. Domala Kishore Babu, Door No 8-18-7, Anandapet, Perala, Chirala 523157, Bapatla District, Andhra Pradesh, India ---------- ----------
2)Ratna Sunil Buradagunta,
Address of Applicant :Munipalle Post, Ponnur Mandal, Guntur District - 522316, Andhra Pradesh, India Ponnur ---------- ----------
3)P. Pardhasaradhi
Address of Applicant :P. Pardhasaradhi Professor, Department of Computer Science and Engineering, Bapatla Engineering College, Bapatla 522102, Andhra Pradesh, India Bapatla ---------- ----------
4)Ravindra Raman cholla
Address of Applicant :Ravindra Raman cholla, Assistant Professor, Department of Computer Science and Engineering, JAIN (Deemed–to–be-University), Bangalore, 562112, Bangalore, India Bangalore ---------- ----------
5)Vijayakumar Chilamkurthi
Address of Applicant :Vijayakumar Chilamkurthi Assistant Professor, Department of Computer Science and Engineering VNR Vignana Jyothi Institute of Engineering and Technology, Jawaharlal Nehru Technological University Hyderabad, Hyderabad Hyderabad ---------- ----------

(57) Abstract :
The present innovation is related to designing and developing a sensor-based automatic gate controlling system for rail road level crossing applications to prevent accidents. The disclosed invention uses sensors to detect the speed of the train when it is far away from the level crossing gate and the time required to reach the gates is calculated by a controller. The controller displays the pre-determined time and automatically closes the gates before the train reaches the gates. Another sensor which detects the train when it passes through the gates provides the information to the controller and then the controller opens the gates automatically.

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