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Patent Search

Invention Title	An Advance Automatic Railway Gate Controller with Elevated Speed Alerting System Using IOT		
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Abstract:

ABSTRACT [1] Our Invention "An advance Automatic railway gate controller with elevated speed alerting system using IOT" has been claimed. Majority of the people lil trains because it is affordable comfortable and fastest mode of transportation. In spite of large usage of railways, It is still not developed in technology in certain area crossings. level crossing gates are still manually operated and many unmanned railway gates are present. Railway gates are mainly used to save the road users to pre accidents from occurring. The information about appearance of train for opening or ending of door is entered from near station. But some road crossings are comple unmanned and numerous road accidents do at these unmanned position crossings. To avoid the mortal intervention at position crossings fully, we need to automate of road gate control In every level crossing there are so many of the railway accidents are occurring due to the carelessness and lack of experienced workers. The mai of this invention is to control and operate the railway gate automatically and prevent accidents to save precious human lives. It helps to prevent accidents from occur reduce the manual labour. Here, we use Arduino and IR sensor.IR sensor use the IR transmitter to pass the arrival of train information, IR receiver receives the inform pass it to the micro controller. Arduino use the DC motor to close or open the gate. This invention is implemented using sensor technique. We placed the sensors at a distance from the gate detects the approaching train and accordingly controls the operation of the gate. Also an indicator light has been provided to alert the motoris approaching train.

Complete Specification

Description: DESCRIPTION OF THE INVENTION

[11] A pair of IR LED is used at aft side and both the IR LEDs are illuminated continuously by laser lights. The same arrangement is made at the foreside. A pair of IF and laser light is used as sensor. When train comes from aft side

and the beam of light falling on both the IR LEDs are disturbed by the train then only a signal goes to the micro controller and then micro controller is activated and program installed in the controller memory is executed. After receiving signal from aft side sensor, micro controller activates buzzer alarm. Buzzer remains active for so that people find time to clear the gate .

[12] IR Detector An IR detector is used in this design to sense the appearance and departure of the train. An IR Sensor generally comprises of two factors an IR Transmitter and an IR Receiver. An IR Transmitter is a device that emits IR Shafts.

Also, an IR Receiver is a device that detects the IR Shafts. Photo Diodes are the most generally used IR Receivers.

[13] L293D is a motor motorist IC used in this design to control the gate motor. L293D Motor Drive IC is a binary H- ground type motor motorist and is available in Binary in- line Package. With the help of this motor motorist IC, we can control two motors at a time with both forward and rear direction control for individual mot

[141 Maior Factors of our design are 8051 microcontroller (AT89C51) Reflective Type IR Sensor 1293D Motor Motorist IC and a Motor. The obligatory connections

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TITLE OF INVENTION	An Advance Automatic Railway Gate Controller with Elevated Speed Alerting System Using IOT		
FIELD OF INVENTION	ELECTRICAL		
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