Radio Frequency Vehicle Speed Reduction

R. Mathan Kumar[1],Mrs. P. Radha[2]
[1]Dept of Computer Science
[2]Assistant professor, Dept of Computer Science
[1, 2] Sri Krishna arts and science college, coimbatore -641 008

Abstract- *In the future the RF tag will be used in Hospitals, Schools and Temple to detect the vehicle speed. The vehicle has the RF receiver which will be received by the signal. The distance will we calculated using the speedo-metre. Once the speed has reached its limit. The vehicle will automatically reduce its Speed. Solar is the best source .It is used from Morning time To Night time for the power generation by RF. It will use Minimum energy so solar is the best advantage to use.*

Keywords- Radio Frequency, fuel pump, over speed

I. INTRODUCTION

The RF tag depends on radio frequency. It works with the help of radio waves which is of higher frequency which gives the system better range and accuracy. Once installed and defined the system will automatically sense the object when the signalling node is in close proximity to the detector, For Example, In workhouse inventory the scanner can map and locater particular object by remembering its ID tag.

The RF reader emits and transmits high frequency waves and the nodes will be identified when it returns feedback signals back the reader. The receiver will send and receive high frequency waves constantly. When the object and scanner is within range the system will recognise it and take the next necessary steps.

The RF system has two primary components, they are reader and tag. The tag is of three type which are Active, passive and semi passive. The RF can be equipped with Solar Panel for Generating Power, So that it can store and use the energy.

The RF segment

The RF transfer and recipient requires current connection and sequence current for working and used over many years. It has fixed short for receiver. The receiver model which is used in RF segment has a examine receiver. The examine receiver gives peculiar in small area. At any time the recipient crosser the transfer devise the data are transferred by the transmitter and send to the recipient segment suited in motor vehicle will receiver the peculiar.

SENDER SEGMENT

The RF segment is little gathering which is able to transfer the wireless signal. It is operating by microcontroller. It is referred to send information to segment which is transferred. The transferred current result will be reduced with natural conditions as melodic, sound and additional framework. We can take a immediate process to defeat to make sender to high the quality

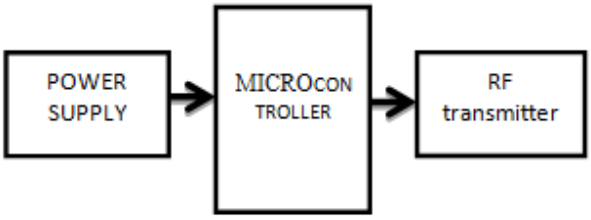
RECIPIENT SEGMENT

RF recipient segment gets the regulate RF power and extract it There are two methods of RF recipient segment. They are super heterodyne recipient and super regenerative recipient. The super regenerative recipient. The super regenerative segment are of how price and how current blueprint using a bunch of recorder to get regulate information by a self-propelled vehicle. The super regenerative segments are of indefinite in the density of operations differed by temperature and current transfer energy. The super combine recipient has a execution head over super regenerative they produce high accuracy and firmness in high voltage and climate scope. Their firmness came by a fixed colourless blueprint which in turn brings to evenly in high expensive product.

II. DETECTIVE COMPONENT

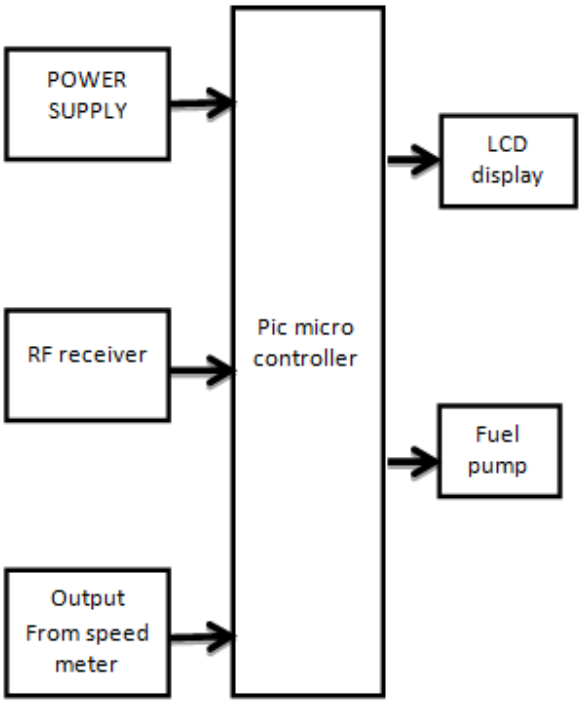
A) Sender

The diagram is given below. The transmitter is attached at both edges with speed cap regions. The unit contains the data's of how much the vehicle speed in that area is notes by the needs. The detective used for transferring the dates by RF segment to many recipients.



B) Recipient

The recipient block diagram is given below. The receiver seeks the information from the sender and it controls the speed of motel vehicle. The segment are RF recipient LCD display, GSM modem, motor LCD used to view the dates to the drives who is deriving the motor vehicle



III. METHODOLOGY

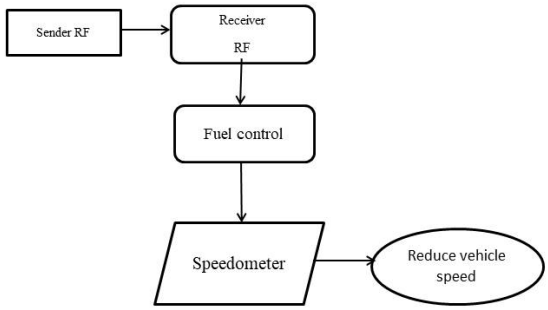
There are three types of frequency they are low frequency, high frequency and ultrahigh frequency. The low frequency preferred for short distance. The ranges signal is usually around 900MHz close to the frequency maximum power of 1W,the range required from one meter to next lower power may be lower. In the other System is also possible, using satellites, power line communication or fibre optics. Transmitter frequency range:433.92MHz

When the vehicle moves is particular speed reaches public places such as school, collage, radio frequency received will be in the can and it sender will be in the public place. Before vehicle reaches public places such as 500m the signals will be transmitted.

Then receiver will sense it then automatically reduce the vehicle speed. It is the main aim of the project. It will only reduce only the speed but will not stop the vehicle. It must be acknowledge such as it is crossing public places. The receiver will control the fuel flow by help of the speed governor and reduce the flow. Then produce less power. When power will be reduced automatically RPM reduced. Engine rotation per minute will be reduced. But this is not enough when it is slow we must keep on moving irrespective of fuel flow when it is slope, the engine RPM takes leg it goes very speedy. So apply break lightly. Gear reduction is done manually in most countries. (While applying break press clutch engine will be offed). when vehicle reaches near public zone, gear transmission must be neutral. Cutler will be applied automatically. No power will be transmitted to gear box. Clutch will be done automatically.

Gear and engine will be engaged by disconnected vehicle will not get off. By reducing fuel flow vehicle will not get stopped we must do breaking. Body the strainsto move in straight condition external force will be applied.

IV. WORK PLAN



It is used to less fuel when it reaches public place. When fuel is less cant raise must down the gear so again apply break and move gear. By applying break he will come to the speed limited set by us. Complete process must not exceed 5 to 6 seconds. It must reduce vehicle speed not stop the vehicle.

V. CONCLUSION

In our project, we propose an approach for the design and implementation of crime detection and criminal identification for Indian cities using IOT techniques. Using the IOT technology, we can monitor and transfer the sensors data through internet. Initially data is transfer to the pc using technology and then data is transfer to other PC using IOT concept. In crime data clustering techniques plays a vital role to investigate the crime and it helps for solving the unsolved crimes easily. By grouping the data with similar objects we can easily solve the unsolved crimes.

For finding similarity objects partitioning clustering algorithm is one of the finest method. It is observed that finding similar words and collect them in a single cluster which helps in crime analysis. Our approach contributes in the betterment of the society by helping the investigating agencies in crime detection and criminal identification, and thus reducing the crime rates.

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