

An Advanced Laser Technology in Automobile Architect

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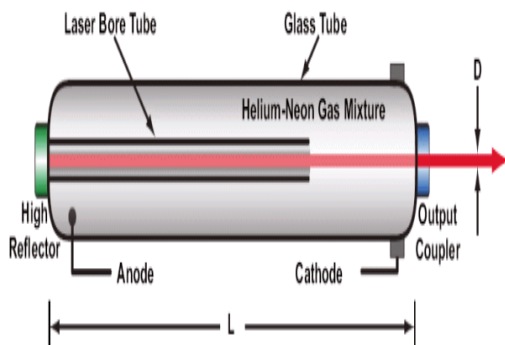
Abstract

The laser is a light which is produced in the manner of the electrons in the orbits will be in the ground state and the energy is given and makes the laser to move to the excited state and the electrons will fall to the ground the laser light is activated. Now in this paper we discuss about the laser technology is interfaced with automobile engineering to prevent the cause of accident and this is one of the most advanced technique which is to be mingled with the automobile industry and the data also forwarded into the laser devices which is monitored by the computer system.

Keywords— Laser light, energy, electrons, orbits, automobile engineering.

I. INTRODUCTION

The paper discuss about the laser technology with the automobile engineering where the laser has different types hence we can take gas laser which is familiar for helium neon laser where the operation wave length of helium neon laser is 632.8nm as well as the pumping source of the helium neon laser is electrical discharge where this electrical discharge is the main source of the system and this will be the initiate stage of the helium neon lasers.

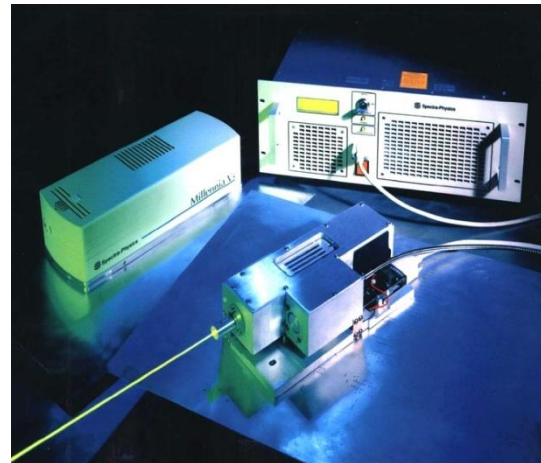


Helium Neon Laser

This laser technology is interfaced with the automobile engineering for example it is interfaced in the vehicle and the laser light is passed over and it would identify the interface objects and send the report to the user by the computerized monitor to the user. This notification is forwarded to the user at each and every time so it is advance & effective.

II. LASER SETUP

The laser setup is developed with the category of helium neon laser and the laser has to be made pass the light source to a particular area and the passing of the light source is the default one and this laser setup will be attached to the other systemized equipment which can be able to read the length of the laser source which is to be passed and the any intermediate object is found a sudden alert will be given to the user in the vehicle.



Laser Interfaced with Control System

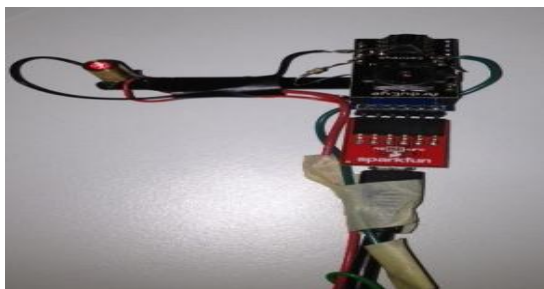
Laser technology is used for various purposes such as welding, medical treatment and defence purposes but in this approach the laser is to be applied for the safety purposes. The figure 2 shows that the laser setup is configured with the controlling system all the reading updates are noted as quick as possible and the user can get the alert message then the their in the vehicular system. The controlling system consists of microprocessor, microcontroller, and various embedded integrated chips, transistor and resistor are also obtained.

III. CONTROL SYSTEM

Control System is one of the main components of the system where this control system is attached with the laser equipments units and the laser is fully controlled by the control systems. Normally the laser wavelength will be high and it can be passed over at a long sight. By the default the source is minimized to show for the shorter sites and then it is obviously controlled by the controlling

system of laser this makes the laser into more advanced one.

Also the controlling system of the laser will also control the computerized monitor control where these would be a complete system and this technology is going to be merged with the automobile system and the laser will control to flow all the sides of the vehicle so that the vehicle will not be get damaged at any cost. A control system if in the advanced auto driving system it would be the better choice for the system. The challenge of this control system is to report the interrupt then and their occurred surrounding the automobile vehicle. Hence this technology can be applied to both the light and heavy vehicles and thus laser with control system figure 3 is shown below.



Control System

IV. CONSTRUCTION

The construction of the laser technology is applied with the remote sensing method where these are going to be interfaced in the vehicles so that it would work together with the controlling system. First when the vehicle becomes to move the laser light passed over around the vehicle and the controlling system will monitor this with the default distance while moving of vehicle possibly interrupt will be surely occurred and these signals will be passed over to the computer monitor system by the communication cable.

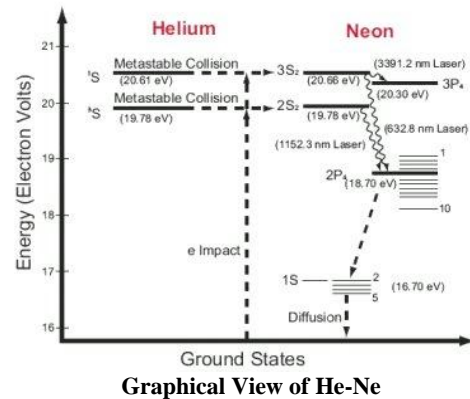
This would be kept with the vehicle inner layer or outer layer of the system where it could be analyzed at any situation.

V. WORKING

As the working of advanced laser technology describes that the default light will be emitted surrounding the vehicle and if the length of the emitted rate is low that would object interrupt with the system so there will be alert or sudden intimation are forwarded through the computerized system is gets connected with the control system and laser analyser.

As well as the laser will also not work independently some of the sensors also kept to follow the activities of the automobile system where each and every records of the system will be monitored by

the computer system also it can be able to shows the record to user of the advanced system.



VI. EXPERIMENTAL RESULTS

The experimental results of the system states that the laser technology is made to combine with the control system and the computerized system. By applying these techniques to the automobile system there is no interrupt is occurred during in the running condition of the automotive force.

If the interrupt is not found in this system the controller system will be idle and there is no warning notification is caused in the system.

VII. CONCLUSION

Thus the advanced laser technology is combined with the control system, computerized visual display, sensors and by the remote sensing. So the vehicle of the system will be more effective and provided with more preventing techniques also such that the laser will be catch the remote sensing method. The future works of the system is to make the system with low cost and made into the advanced technology.

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