BUS STEP SECURITY ALERT TECHNOLOGY (BSSA)

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INTRODUCTION :

- The Bus Step Security Alert Technology is inventing for the buses to avoid the accident that occur in bus.
- In India the bus accident plays role in 35% per year. Most probably 1214 road accidents occur per day in India.
- The statistical report tells regularly 20 children under the age of 14 died every day due to the road accidents.
- Majority of the road accident occur in the bus. In buses the footboard traveling accident is mainly occur.
- How to avoid this kind of accidents ? Let us discuss in the detailed manner.

PURPOSE OF INVENTING THE TECHNOLOGY :

- To avoid the person or student standing in the steps, while the bus is moving.
- It also avoid the overloading of the buses.
- This technology are mainly focused to invented for the students safety in the bus. Because I noted that the students are mostly stand in the footboard of the buses and the statistical report also tells that.
- The Government has declared student's life is most important but they didn't provide more buses.
- So the students are hanging or standing in the footboard to go the school at the particular time. This lead to the accident. To use the BSSA technology in the buses to surely avoid the accidents.

NEED FOR THE BSSA TECHNOLOGY IN DAY TO-DAY LIFE :

- At present all over Tamil Nadu there are 12,855,485 government school students and 42,03,674 private school students are studying in Tamil Nadu.

- The School Student need the bus to go the school. Mostly they want the MTC(Metropolitan Transport Corporation)buses because most of the schools are located in the cities. But the number MTC buses in TamilNadu is 3492.

- It is not a possible way both the people and the students travel in the bus. It lead to the severe accident due to overload and standing in the footboard, In that situation students hanging on the rail of the bus windows but use the BSSA technology to avoid this kind of activities.

- All of us know in India the TamilNadu is leading state to cause the accidents. To Minizime the accidents we need the BSSA Technology.

ACCIDENTS THAT HAPPENED REALLY IN TAMILNADU :

MORE ACCIDENTS ARE HAPPENED BUT LET US SEE THE SOME ACCIDENTS

- In Kanchipuram, the pallur region the Pachaiyappa's college student named Dinesh Kumar was death because of standing on the footboard of the private bus. How it happened? He was traveling on the footboard of a bus, and his leg was slipped and he was run over at pallur near nemili. But the important thing is the bus is not crowded and the seat for sitting is available but he didn't sit. He stand on the footboard and finally death.

- In Erode the college girl named varshini was going to coma stage because of standing on the footboard of the college bus. How it happened? She was standing on the footboard of the bus but the door was closed. Even though she was thrown away from the bus because of the over speed of turning near the Jaycees stop. Finally she had severe head injuring so she go the coma stage.

TO AVOID THIS KIND OF ACCIDNENTS USE THE BSSA TECHNOLOGY.

ADDITION OF THE STUDENTS IN THE BUSES :

👍 Mostly I noted that students are standing in the footboard and the same way they are also hanging in the windows. Because normally the students having the playing mindset and he saw the action movies and his mind turned to the playing mindset.

👍 All of us know the students always hanging or standing on the bus steps.While having the space for sitting but also he didn’t sit. This finally lead to the accident. Let us see some people in footboard and hanging in the window of the bus

MAIN PRINCIPLES OF THE BSSA TECHNOLOGY TO CONSTUCT AND WORK :

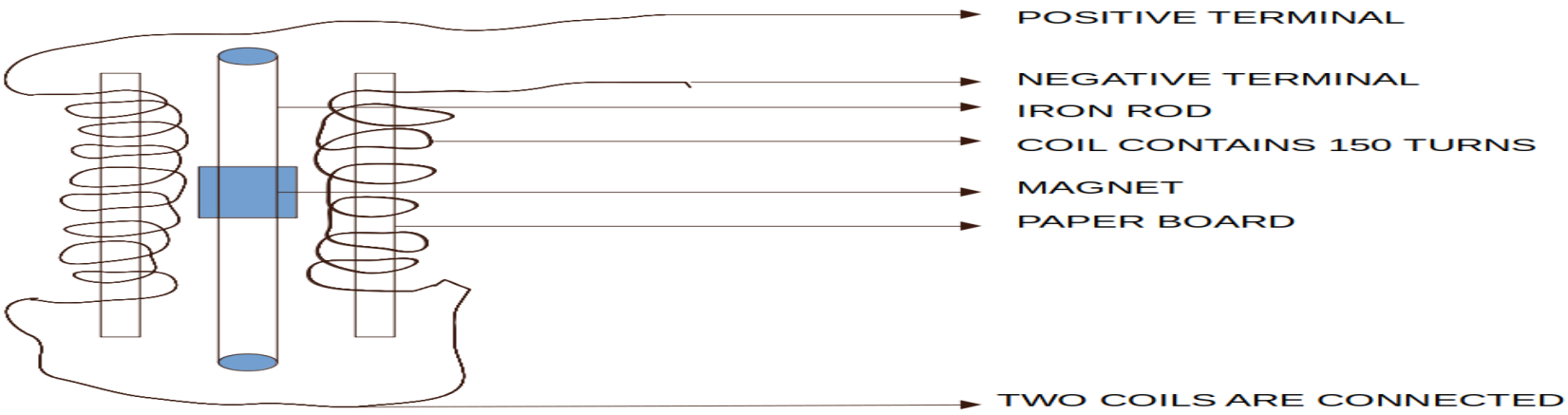
There are two main principles involved that technology, they are

- BASIC OF THE BURGLAR ALARM,
- HIGH VOLTAGE DYNAMO TECHNOLOGY.

BASIC OF THE BURGLAR ALARM AND DYNAMO TECHNOLOGY EXPLANATION :

The burglur alarm uses mainly the laser light to work it is all of us know. Dynamo is used to produce the electricity for the burglar alarm. The Dynamo doesn't use battery it will create the electricity. The High Voltage Dynamo generates 220V electric current. These current and the laser light plays main role to work the BSSA.

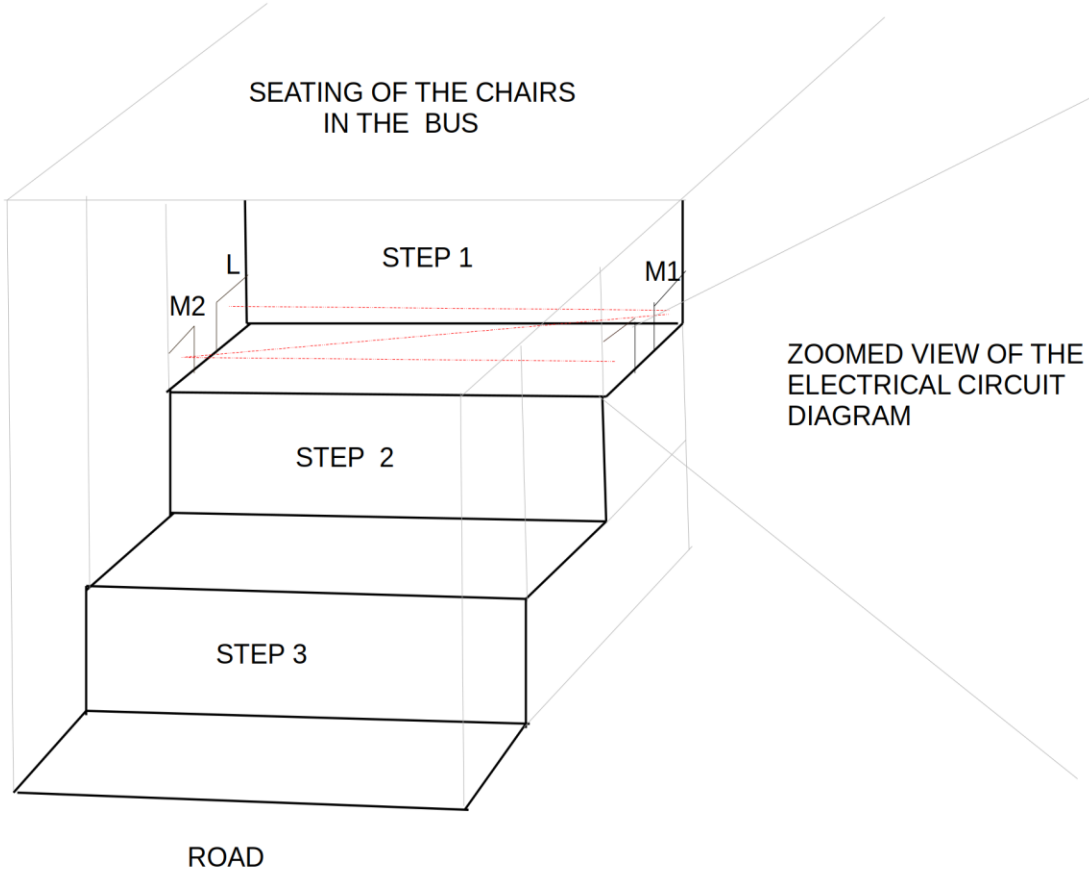
BLUE PRINT OF THE HIGH VOLTAGE DYNAMO :



HIGH VOLTAGE DYNAMO SETUP

By using the technique by increasing the number of turn, strength of magnetic field, speed of rotation of the coil in the magnetic field and by decreasing the distance between the coil and the magnet, it produces the high voltage like 220V. By rotating the iron rod the 220V will be produced. The iron rod is connected to the one small wheel and the setup is connected to the bus wheel.

BLUE PRINT OF THE BUS STEP USING THE BSSA TECHNOLOGY :



PARTS :

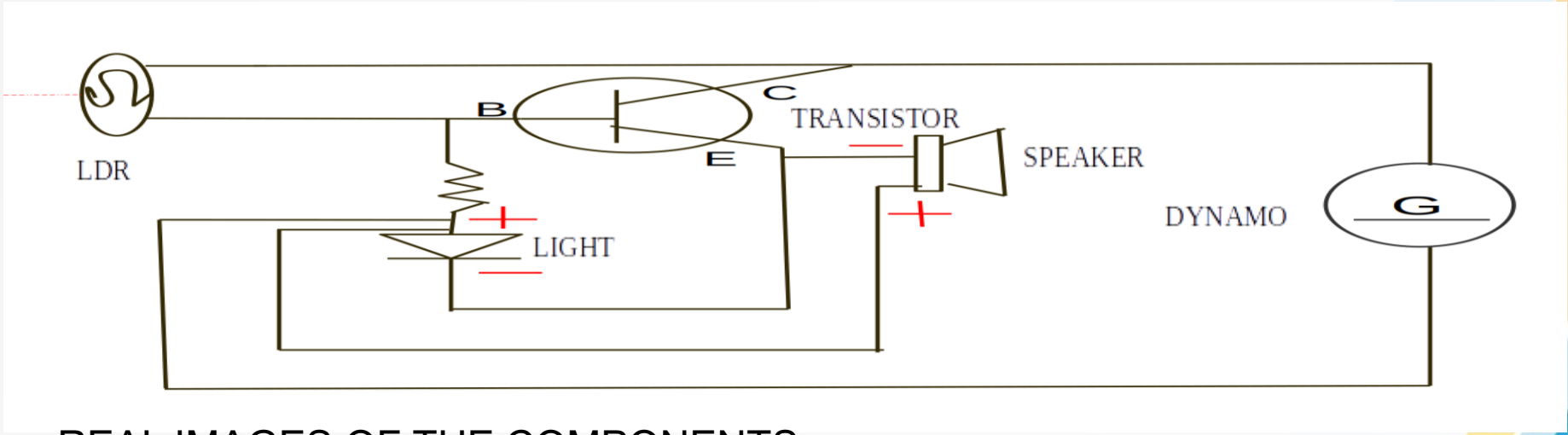
L - LASER SOURCE

M1- MIRROR USING FOR REFLECTED THE LASER SOURCE.

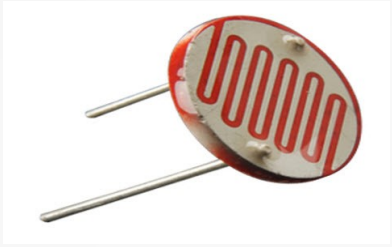
M2- MIRROR USING FOR REFLECTED THE LASER SOURCE.

S - ABSORPTION OF THE LASER USING SOME ELECTRICAL COMPONENTS.

BLUE PRINT OF THE ELECTRICAL CIRCUIT :



REAL IMAGES OF THE COMPONENTS :



LDR

TRANSISTOR

RESISTOR

SPEAKER

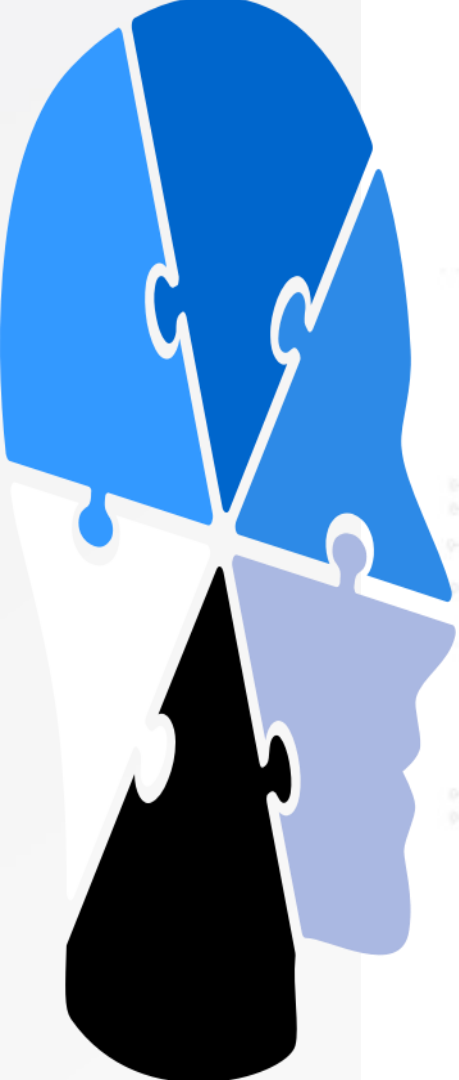
CONSTRUCTION AND WORKING OF THE BSSA TECHNOLOGY :

- First construct the High Voltage Dynamo, the dynamo is connected to the bus wheel.

- When the bus moves the current produces otherwise they don’t produce. The terminal of the dynamo can be connected to the socket.

- From the socket to gain the input power from the laser.In the way to gain the input power of the electrical components that can be shown in the circuit.

- To follow the proper instruction the BSSA is work properly.If the person standing in the footboard while the bus is moving the high sound speaker produces high sound. It disturbs all person inside the bus.
  So the person didn’t stand in the footboard. And overloading of the bus also avoided.



THANKING YOU