

Developing a Working Model of SBS Lens Technology: A Novel Way of Outsmarting Crime While Traveling

Pranoy Koul

*Student – (B.tech) Mechanical Engineering, Ansal University
Sector 55, Golf Course Road, Gurgaon
pranoykoul@yahoo.co.in*

Abstract: Crime rate in India is only increasing. It has become unsafe to travel on the road and the vulnerability of the car drivers is quite high. These days, there is a lot of risk while traveling on highways. Through this paper, the author has developed an innovative working model of SBS Lens Technology, which can help to thwart crime while traveling. Looking at the fast growth in road-crime in the country, a system has been devised that may help in restricting the fast crime rate especially on the highways, and connecting the location of the crime to the nearest police station and the para-medics simultaneously. The author has created a safety mechanism through a technological advancement that would help in fighting the cybercrime through intelligent use of the modern technology in a small way.

1. BACKGROUND

Technological advancement may add to the healthy experience of travel but it has brought along with it all possible risks. Highway robbery, auto thefts and the threat of terrorism, extortion etc. has added to the risk of travel. Travel by road outside of the major cities at night is regarded as a significant risk in most parts of the country due to poor road conditions, other road users (including stray animals), inadequate lighting, poorly maintained vehicles and high crime rate. India actually has one of the most dangerous statistics for road travel in the world with over 200,000 road deaths recorded in 2011. Car theft is a big business in India. Auto theft is a national-level racket that runs into crores of rupees.

The situation requires a device that will help in not only alerting the concerned law makers, but also connect the road drivers to the nearest medical assistance at the location of crime / accident.

2. WORKING MODEL

Locomotives like bus, automobiles, motorbikes and three-wheelers have headlamps. The headlamp (s) of the vehicle is

located in the front of the vehicle and consists of the indicator lamps. The main beam ensures intensive illumination of the road and provides good uniformity and range both close up and in distance. Below the main beam lights, the lens technology has been called “S.B.S” (Service before self) and it would literally give “eyes” to the vehicle. It would ensure safety of the car driver and other drivers around it while driving during a crime scene.

In this technology, just like the tiny bulbs are connected as a wire, have tiny lens in it. These cells are manually operated by the turn-on button placed in the vehicle and also insists the driver to turn on the system, is displayed on the speed meter screen.

- Each lens is shaped in such a manner that it can view at an angle of 270 degree and its illumination supported by the main beam which turns with the turning of the steering wheel in order to provide optimum view for the driver at blind turns during night hours of drive.
- These lenses have 12 X zoom and are of 40 mega pixels. Now, whenever driver (with installed system) and if at all it locates a crime scene taking place in front of its view, it would sense it and would initialize until it gets an approval from the **inference chip** (located near the antennae) – a device which transmits and analyses the details and if the view is same as that of the programmed view in the chip.
- After its approval it would **double check** it for the the final test. During this process, it would connect with the GPS NAV device installed in the vehicle and would locate the **nearest police crime control room** and automatically call the police with “**voice talk**” and through **geotagging** it would give exact sync that place s longitudes and latitudes and give exact location of the crime scene the fastest way as possible in order to control and prevention of any mishap caused by the extortionists.

- It also has an option for manual alert for the driver which displays as the notification on the screen bar.

Lastly, in our country, with the increase of our population, sadly the crime rates, especially on road s are increasing drastically, so as the citizens

Of humanity, we should try to reinforce our ideas and strengths into constructive implementation.

3. ADVANTAGES-TARGET AUDIENCE

The target audience will comprise of those victims on the road, whom need URGENT attention of the Emergency services i.e. AMBULANCE, POLICE CONTROL, and FIRE BRIGADE in order to prevent the situation from becoming worse for them.

4. LIMITATIONS

The SBS lens safety feature is presently under development

and as of now it has only been programed to provide service to the pedestrian victims on the road.

5. SCOPE

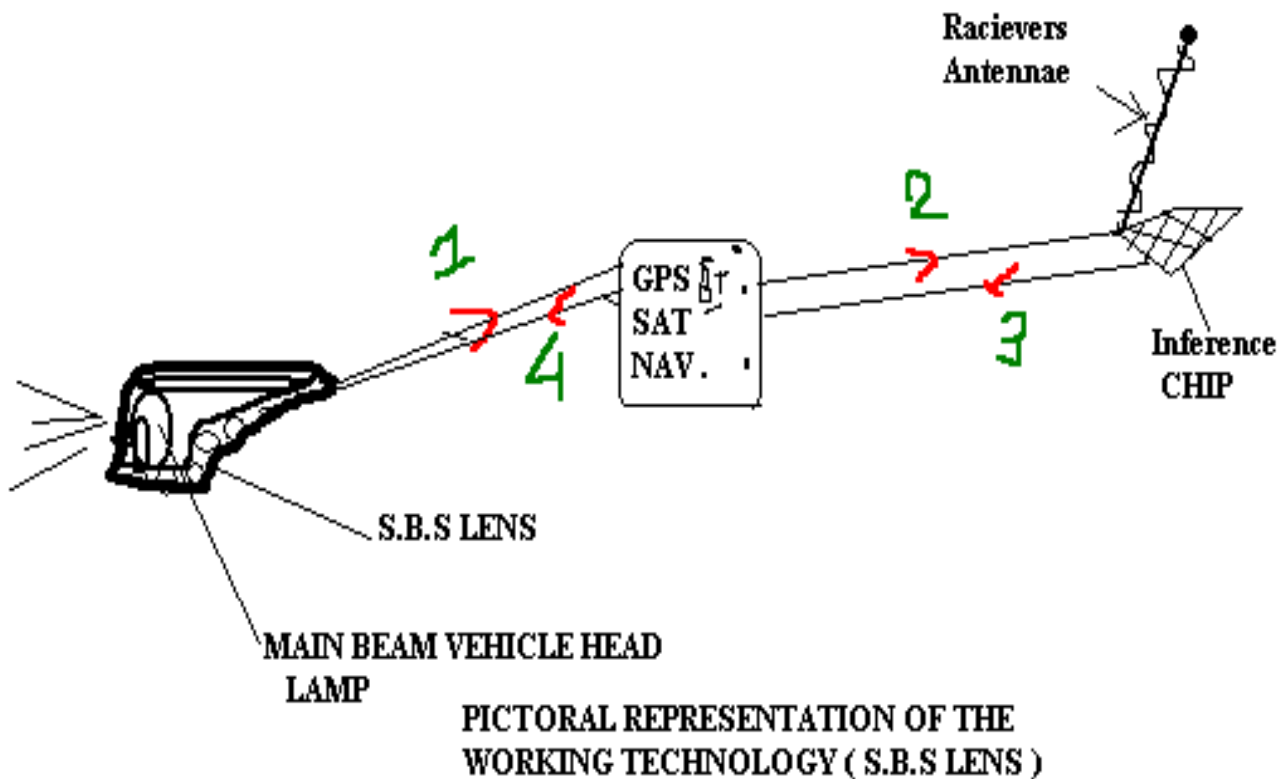
It has wide scope in the fields of social security and overall development towards the citizens who are traveling with joy and a safety.

6. ACKNOWLEDGEMENT

This research idea was supported by the former dean engineering of Ansal University, Gurgaon.

REFERENCES

[1] General safety manual in vehicles, VW group.
 [2] www.wikipedia.com- cameras and their functions.
 [3] Making of safety equipped automobiles, Discovery Turbo channel, discovery networks.



LHS VIEW OF SBS LENS TECHNOLOGY

