

Anti Molestation Device

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Abstract— In Today's World the safety of women is in danger especially in India. The rate of crimes against women is not decreasing but in fact increasing the rate especially harassment, molestation, eve-teasing, rape, kidnapping and domestic violence. Many preventive measures have been taken by the "government to stop these getting out of hand exercises yet at the same time has not influenced the developing pace of these wrongdoings"and has remained unaffected. "The issue of inappropriate behavior in work place is progressively coming out"outday-by-day. Sexual harassment at a workplace is unwanted behavior of a person that causes discomfort, offence or distress to the other. many of such cases are happened to lady by men working at high position in an organization.Women is getting kidnapped at every 44 minutes, raped at every 47 minutes, 17 dowry deaths every day.The fear of harassment against women is not only the condition at outside but it may also happen at homes, Women are not so physically fit as compared to men so we design a Piezoelectric Smart Shoe for Women Safety. that will be act as a helping hand would be a boon for them.

Keywords—*ShockModule, piezoelectricsensor, GpsandGsm, MiniRemote.*

I. INTRODUCTION

Today in the current global scenario, women are facing many problems like women harassment. We propose to have a device which is the integration of multiple devices, hardware comprises of a wearable "Smart shoes" The device consists of a piezoelectric plate, electric shock module, GPS module, voltage booster, mini r/c remote, shock providing pin, USB charging port, on/off switch DC battery and some wires In this project, when any woman senses danger, feel any harassment for herself within 5cm of distance. she has to hold ON the mini remote of the device to activate the device, after that voltage booster module will activate and provide shock (up to 5000 watt) to the opponents. Its make the opponent unconscious. This device is also beneficiary to tracks the current location using GPS(Global Positioning System).

II. THEORY OF PAPER

The present invention generally relates to rape prevention and more particularly to Women safety device. Our invention is based on compact shoes which defends womens like perfect bodyguard .when any person feel some uncomfortable, she can access the device by pressing mini remote. When the device is activated, if any person came in contact with the shock module, the attacker will experience shock upto 5000w. we also introduce piezoelectric sensor which is for battery backup. This paper is all about a device

Named Anti rape smart shoe which protect women from danger situation. We propose to have a device which is the integration of multiple devices, hardware comprises of a wearable "Smart shoes" The device consists of a piezoelectric plate, electric shock module, GPS module, voltage booster, mini r/c remote, shock providing pin, USB charging port, on/off switch DC battery and some wires In this project, when any woman senses danger, feel any harassment for herself within 5cm of distance. she has to hold ON the mini remote of the device to activate the device, after that voltage booster module will activate and provide shock (up to 5000 watt) to the opponents. Its make the opponent unconscious. This device is also beneficiary to tracks the current location using GPS(Global Positioning System). We design a device "photoelectric smart shoes for women safety" which is mainly used to provide security among the women community Its protect the women from harassment if any person will try to misbehaving them .by provided by shock, by shock module. This device is also used to track the current location of the person using Global Positioning System (GPS)

III. LITERATURE SURVEY

India which sees itself a promising very financial center point, is as yet caught in the grip of different indecencies like attacks, endowment, wrongdoing against ladies, most noticeably terrible among everything is Rape. The barbarities

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against the ladies can be presently finished with the assistance of a gadget called Anti rape smart shoe with piezoelectric sensor . This device which is the integration of multiple devices, hardware comprises of a wearable “Smart shoes”, when any woman senses danger, feel any harassment for herself within 5cm of distance. she has to hold ON the mini remote of the device to activate the device, after that voltage booster module will activate and provide shock to the opponents. Its make the opponent unconscious. This paper likewise sums up other critical works in this field and subsequently forward examined Anti rape smart shoe gadget in a more noteworthy detail. In the light of current situation in Hathras in uttar Pradesh which shook the country and woke us to the security issues for ladies, individuals are finding up in various approaches to safeguard. Here we present a gadget which guarantees the assurance of ladies. This assists with recognizing ensure and call on assets to enable the one to out of risky circumstances. This Device tracks the spot of the ladies utilizing GPS (Worldwide Positioning System) and sends crisis messages utilizing GSM (Global System for Mobile correspondence), to contacts and the police control room. The historical backdrop of brutality against ladies stays obscure in logical writing. This is partially because of the way that numerous sorts of viciousness against ladies (explicitly assault, rape, furthermore, aggressive behavior at home) frequently go unreported or underreported, regularly because of cultural standards, restrictions, shame, and the delicate idea of the subject. It is broadly perceived that even today, an absence of solid and ceaseless information is an hindrance in having an away from of viciousness against ladies. As indicated by Worlds Women Organization the violations against ladies have expanded past the reasoning of everyday citizens. So we propose this gadget for women safety. And furthermore points to make quite a few predefined security zones inside a grounds territory and different spots. Security of ladies in present situation is significant. Security is the most significant necessity on the grounds that the cases of provocation and assaults are expanding Therefore, a viable security gadget is planned. This viable wellbeing gadget is named as Anti Rape Smart Shoe which is simple to utilize. This gadget will give the shock to the attacker without executing him. This shoe are a decent choice for giving security for this situation. It is a convenient gadget which is anything but difficult to convey and utilize. It is an electrical self – guard gadget that utilizes high voltage to stop attacker. Women security is a significant issue of worry in this day and age. Ladies are exposed to exploitative physical provocation. Ladies security techniques, for example, different versatile applications have been attempted and executed, however the need of the time is that they need is a gadget that can be conveyed wherever without any problem

IV. DESCRIPTION OF THE PROJECT WORK

The system design includes a compact shoe which consist of piezoelectric sensor at the panel of the shoe to supply continuously power to the battery of the device and to

overcome from battery backup issue , one high voltage booster which provide shock ,one mini remote to access the device outside, and Gps and Gsm device to track and send the location detail to the loved ones.whenever any women feel danger situation then she will able to access the device by pressing the key of mini R/c remote after that the shock module get activated. we also insulated 3 layer strong waterproof insulated rubber sheet to protect the women from any possible.We also provide common USB portal for regular charging purpose and one emergency on/off switch at the panel of the device.

Components Required

High voltage shocked module. Considered the most effective high frequency, switched mode High Voltage Modules on the market, for multiple OEM applications and electricity systems, they're ultracompact, low value power solutions that provide high stability with high performance and are designed to Genvolt's top quality standards.



Fig 1. High voltage shocked module

Piezoelectric sensor. A electricity detector could be a device that uses the piezoelectricity to live changes in pressure, acceleration, temperature, strain, or force by changing them to an electrical charge. The prefix piezo- is Greek for 'press' or 'squeeze'

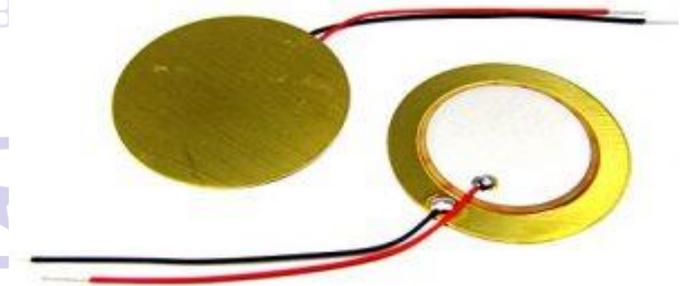


Fig 2. Piezoelectric sensor

Mini Rc Remote A remote management (RC) may be a little, typically handheld, device for dominant another device, like a tv, radio or audio/video recording device. Remote controls unremarkably operates via infrared signals however generally by frequency signals. The {remote management|remote|device} might control a spread of functions like volume, channel, track variety and different functions. fashionable remote devices typically have a

lot of dominant functions than ar found on the device it self, which can have solely a number of primary essenti al controls.



Fig 3. Mini Rc Remote

GPS.The Global Positioning System (GPS), originally Navst ar GPS, may be a satellitebased radionavigation system in ha nd by the us government and operated by the us house Force. it's one in every of the worldwide navigation satellite system s (GNSS) that gives geolocation associated time data to a GP S receiver anyplace on or close to the planet wherever there's an patent line of sight to four or a lot of GPS satellites.Obsta cles like mountains and buildings block the comparatively w eak GPS signal



Fig 4. Global Positioning System

On/off switch. a hinged switch which will assume either of 2 positions. on/off switch, on/off switch, toggle. DIP switch, t win inline package switch (computer science) one among a group of tiny on off switches mounted in laptop hardware; em ployed in place of jumpers to tack together the machine for a user.



Fig 5. On/off switch

USB charging port. universal serial bus (USB) is associ ate degree business customary that establishes specifi cations for cables and connectors and protocols for ass ociation, communication and power offer (interfacing) b etween computers, peripherals and alternative compute rsA broad form of USB hardware exists, together with e leven totally different connectors.

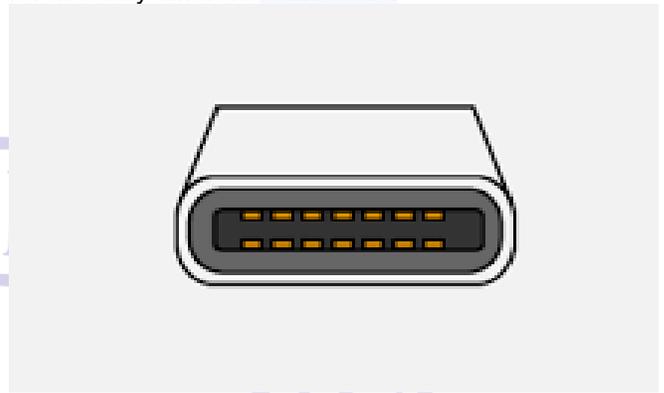


Fig 6. USB charging port

V. BLOCK DIAGRAM

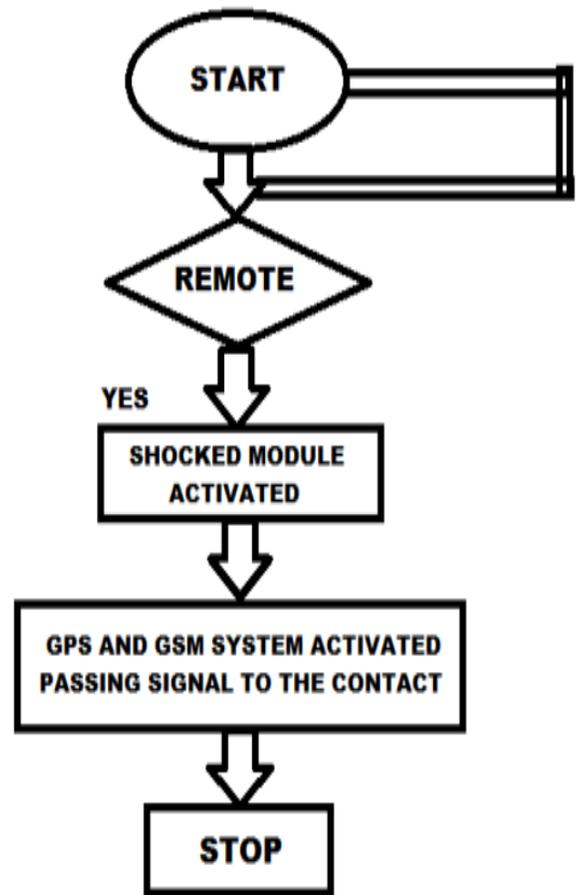


Fig 7. Block Diagram

VI. RUSULT



Fig 8 . prototype front look

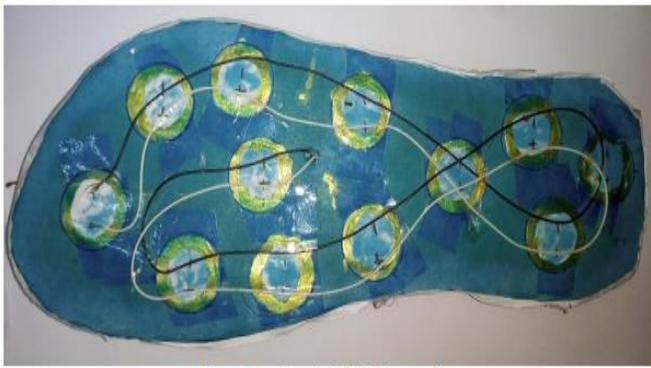


Fig 9. prototype back look

VII. DISCUSSION AND FUTURE SCOPE

This work was pointed toward building up a low cost gadget to assist ladies with feeling more secure and forestall the event of assault, badgering and different risky circumstances. The configuration is created utilizing a high shock booster to provide shock to the attackers. This gadget can customize to the footwear of the client. The robotized framework gave a high exactness of 100% in the tapping situation and 95% in the strolling situation. This minimal effort framework doesn't need the client to have physical admittance to her cell phone and the gadget is very much covered up. To trigger the gadget, the client just simple needed to press any catches or convey any article in her hand. The client needs to just press mini remote utilizing her correct foot and a trigger will be shipped off her cell phone which will send an alarm through SMS to five preset numbers containing the area subtleties of the gadget. The size and type of the gadget make it simple to fuse in day by day life. Because of its little size, it is discrete and hard to take note. In the future, a fitting case can be intended for the gadget to improve its solidness and forestall any equipment harm. This examination has a couple of impediments. By taking a shot at more number of situations and with adequate assortment of information (subjects with various age gathering, sexual orientation, and stature), the

dependability and heartiness of the framework can be improved

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