

METAL & LIFE DETECTOR EARPHONES

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Abstract

Earphones are used to listen songs when there is no work, they are pleased to hear. Metal Detectors are those instruments which can detect nearby metals and their quality. Life Detectors are those inventions which can detect the living things near its surrounding. Now a day a number of earphones are made which are totally designed for humans they are like ear bud, inside ear, behind ear, wireless, around the neck, above the head. The research is going on with respect to this problem, because of this many people lost their hearing capability. So that type of earphones should be made which can save lives and can also help human's ear so that it cannot lose its capability. Sensor earphones should be made to help humankind.

Keywords: -Earphone, Hearing aid, Metal detector, Life detector, Road accidents, Sensor, Automatically.

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INTRODUCTION

Earphones create a lot of problem in our daily life apart from giving a pleasure effect. People use this anywhere in the public place, railway station, on road, highway, shopping malls, library, classroom and even in the toilet also.

They create a number of problems inside and outside the life. In account of inside life as shown above it creates hearing problem when used for a long time with enough volume. Many of the people are using hearing aid or they are unable to listen things in a low voice, these are just because of these earphones.

Now on account of outside life problems it creates problem for the person who is on earphone as well as for the passive person also. If we talk about the road accidents the main reason is this earphone only. People use to drive while they are on earphone due to this they are unable to listen to the horns or sound coming from their back and they got stuck in some accident. Another reason is people cross road while using earphone and they don't listen to the sounds of the vehicles coming from the other side and they get a chance to meet accident.

Some earphones are so powerful that the sound from it comes outside even though they are in the ears and the sound disturb other especially when you are in a silence zone area like library, classroom, temple or movie halls etc.

As till the date no research has been going out on this problem. As there are some earphones which can reduce noise when the volume is enough for your ears these earphones are BEATS audio, BOSE, JBL and PHILIPS, but they can't save you from accidents when you are using them on the road.

It's a common thing that people will do that work only which they are not asked to do, so I thought that instead of teaching peoples a lesson why can't we make something new for them which can make their life easier and long enough by saving them from accidents and the problem which they undergo while listening to earphones. Surveys have been conducted throughout USA in 2004 the chart below shows that:-

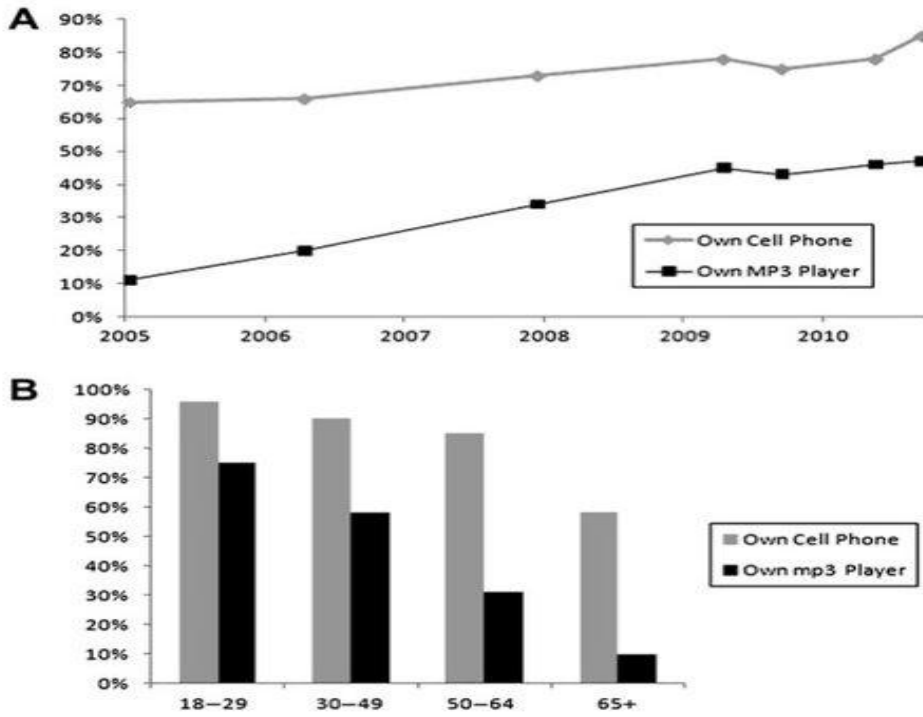


Figure 1 Ownership of auditory devices: (A) overall; (B) by age (adapted from Smith⁵).

Table 2 Headphones-related pedestrian crashes: summary (n=116)

Category	No.
Year	
2004—2005	16
2006—2007	19
2008—2009	34
2010—2011	47
Season	
Spring (Mar—May)	30
Summer (Jun—Aug)	16
Fall (Sep—Nov)	30
Winter (Dec—Feb)	40
Age	
<15	5
15—24	62
25—34	18
35—44	6
≥45	13
Unknown	12
Gender	
Male	79
Female	37
Outcome	
Serious injury*	24
Mild injury†	7
Death	81
Unknown	4



BACKGROUND

Once I was walking on road of VIT from SJT to MEN's hostel I was on my earphone and was listening to my favorite music and I was completely lost in that. Suddenly a crossing came and I didn't know about that and a biker who was coming from my left side struck me but I didn't get hurt. Instead of hurt I was scolded by that man in public and I was feeling very ashamed for this act. Then I realized that instead of taking earphones shut and then crossing the road why can't we make an earphone which can detect the vehicles and other stuffs which comes in our route.

PROCESS DESCRIPTION

This earphone is also used to listen to music like other earphones but it has two sensors in it. First it can detect the metal bodies and second it can detect the living things like humans and trees around us. It will contain a sensor and a signal as soon as the man will cross the road and if he comes in contact with a metal body (vehicles) around a certain radius it will send the signal to ear in order to overcome the problem. Similar is the case with life detector if some living body like tree or human being who is going to collide with us in the rush the sensor will sense it and sends the signal to ear.

When we use them inside the area full of noise it will increase the sound automatically but with respect to the hearing capability of human ear and when we use them in silence zone it decreases

the sound automatically so that the sound from the earphone should not affect others present there.

It also has a sensor that when you take it out of ears it will pause your music there only and again when you put it on, it will automatically play it from where it is stopped or paused.

It is also a wireless earphone and connect o every handset which are having Bluetooth.

PROCESS DESCRIPTION



It will consist of proximity sensor which sense the nearby object and gives the signals to the ear in form of sound so that the person can come to know that there is something in front of him i.e. may be any vehicle, person, tree or any other stuff.

MARKET ANALYSIS

In markets there are many types of earphones available which can reduce noise and can make your ear comfortable while listening to music. They are basically BEATS, JBL, SKULLCANDY and BOSE. But now APPLE has designed a new earphone which can adjust according to the respective ears due to sensors fitted in it. It can sense that in which ear it is going in. But the metal detectors and life detectors earphone are not available in the market. It is a new product in the market if launched but it can be costly and can empty the pockets of customer.

RECCOMENDATION

I don't know that how it will work in rush areas , it will give continuous signals to ear as so many peoples are there so I wanted recommendation on this problem and also it will not detect plastic bodies whether it will be a vehicle or something other.

CONCLUSION

As the earphones made till date there is no earphone made same as like mine. I think my product is unique till now and is also real. It will be very useful to blind people if they don't use it for music but for sensors present in it. So it will be the best product for the music lovers as well as for traffic police but it will be considered as boon by hospitals as they will not get any accidental cases and trauma center will remain empty.

REFERENCE

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