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Telecommunications wrist band

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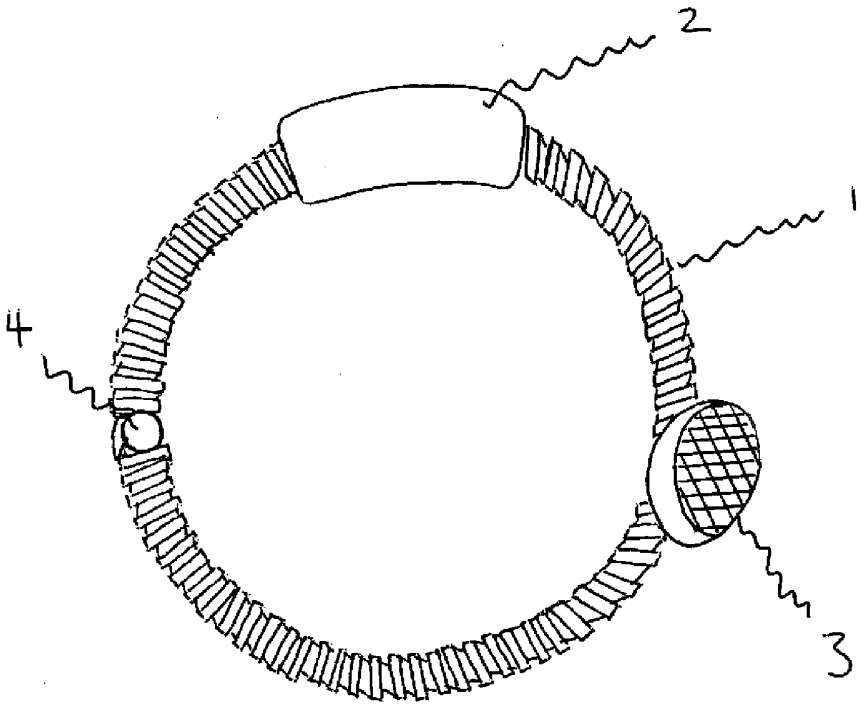
ABSTRACT

An expandable coiled cord telecommunications wrist band with a tethered speaker, a tethered microphone and a tethered transmitter receiver on the circumference, so that the expandable cord can radiate 360 degrees upon a plain and the separation of the speaker to the transmitter receiver is between 2cm and 8cms when the cord is in a flaccid state. The microphone is tethered to the transmitter receiver at a third position on the circumference of the wrist band to aid telecommunication when the speaker is held against an ear for hearing while speaking into the microphone.

FIG 1



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AUSTRALIA
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COMPLETE SPECIFICATION
INNOVATION PATENT

TELECOMMUNICATIONS WRIST BAND

The following statement is a full description of this invention,
Including the best method of performing it known to me:

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TELECOMMUNICATIONS WRIST BAND

Telecommunications wrist bands must be fashionable and functional as applied in previous patents by this inventor. Innovation breeds innovation and the inventor of this new telecommunications wrist band here presents a simpler form of previous designs to achieve a similar purpose. A combination transmitter receiver, speaker and microphone telecommunications wrist band can be made in many forms to serve the purpose of limiting electromagnetic radiation from entering a persons head. In previous patents, No 2010100675, 2010100685, 2009100022 designs are shown where zip cords or double looped elastic cord separate the speaker from the transmitter receiver to minimize possible radiation health hazards that science now claim is of concern. Usage by minors and people of high mobile phone use or where signal strength is poor are of particular concern as reportedly it may cause brain tumors. The increase of brain cancer is the reason for an urgency to find an effective way to make telecommunications safe.

Mindful that younger users of mobile phones want a fashionable solution to a looming problem the inventor here presents a solution.

Mobile phones play an important part in all our lives and they are here to stay, therefore safe usage, function and fashion are all important criteria.

The new telecommunications wrist band consists of an expandable coiled cord with speaker, a microphone and a transmitter receiver on the circumference of the wrist band.

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The position of the three tethered parts is important to the function of the invention. The coiled cord is also important to function. The positioning of the speaker, the transmitter receiver and the microphone in a preferred one third point on the circumference of the wrist band separates the three along the length of the band so that the function of telecommunication is possible. Although a one third separation position is preferred it in no way limits the inventor's purpose for function. A determined distance of separation between 2cm and 8cm between the transmitter receiver and the speaker however is essential for the use of the new telecommunications wrist band. This separation of between 2cm and 8 cm is measured when the coiled cord is in a flaccid condition. It has been found when the separation is outside this parameter the hazard of radiation may increase at the bottom end of the scale and the function above 8 cm causes the cord to become too slack for its expandable function of retracting the speaker. The ideal distance for separation of the transmitter receiver and speaker is approx 5cm. Starting at a flaccid 5cm, the cord and speaker can expand up to 28 cm away from the transmitter receiver, which is more than enough for a reduction of any radiation hazard that may be emitted.

The new telecommunication wrist band functions according to the invention when worn by a user in the following manner. A transmitter receiver tethered on the circumference of the wrist band in a separated position to the speaker and microphone is paired to a mobile phone. When the two devices communicate

back and forth the new telecommunication wrist band is now ready to send and receive phone calls. A vibrator within the receiver indicates an in coming call and the user presses a button to accept. Taking the tethered speaker and coiled cord the user extends the cord and speaker over the back of the hand placing the speaker between two fingers to hold in a position that now separates the transmitter receiver and speaker by approx 14 cm, dependant on the users hand size. Both the extended distance and the arm and hand further shield the user from any harmful electromagnetic radiation that may be emitting from the transmitter receiver. The user holds the hand and speaker against the head to listen to a caller and speaks into the microphone positioned now on the underside of the wrist band. This hand held position is the normal way a phone call is taken with a mobile phone, and is now a natural, fashionable, and safe distance from the potential radiation hazard. To end a phone call the user opens the two fingers holding the speaker which permits the expandable coiled cord to spring back automatically to its natural flaccid condition of a wrist band.

The new telecommunication wrist band can be better understood by viewing the accompanying drawings where:

FIGURE 1 is a drawing of a flaccid telecommunications wrist band with separate speaker, microphone and transmitter receiver.

FIGURE 2 is a drawing of how the flaccid telecommunications wrist band can expand in a 360 degree direction on a flat plain.

FIGURE 3 shows the separation measurements of the transmitter receiver and

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speaker in a flaccid section of the telecommunication wrist band.

FIGURE 4 illustrates how the telecommunications wrist band is worn by a user. While the illustrations show a rounded coiled cord, modifications in shape and size such as rectangular, elliptical, square or some other shape may be used which does not depart from the spirit of this invention.

In FIGURE 1 the telecommunication wrist band 1 consists of an expandable coiled cord with a tethered transmitter receiver 2, a tethered speaker 3 and a tethered microphone 4 positioned in three separate positions on the circumference of the telecommunication wrist band 1.

In FIGURE 2 the telecommunication wrist band 1 illustrates how the expandable coiled cord that encompasses the tethered transmitter receiver 2, speaker 3 and microphone 1 can radiate in a 360 degree expansion 5 on the plain.

In FIGURE 3 a section of flaccid coiled cord telecommunication wrist band 1 shows a measurement of between 2 cm – 8 cm separation 6 between the transmitter receiver 2 and the speaker 3.

In FIGURE 4 a hand 7 shows how the telecommunication wrist band 1 is worn by the user. The speaker 3 is able to expand and be placed between two fingers at 3A. The telecommunication wrist band 1 is able to function in the following manner when the transmitter receiver 2 is paired to a mobile phone

When an incoming phone call is received, the transmitter receiver 2 vibrates to indicate the call. The user wearing the telecommunication wrist band 1

answers the call by pressing a button on the transmitter receiver 2 and then listens to the caller through the speaker 3 by pulling the speaker 3 tethered to the telecommunication wrist band 1 across the arm and hand 7 and places the speaker 3 between the two fingers 3A. With the hand 7 and speaker 3A cupped and held against the head, the user can listen to the caller. To speak to the caller, the user speaks to the underside of the telecommunication wrist band 1 where the tethered microphone 4 is located. To end a call the user opens the two fingers 3A to allow the telecommunication wrist band 1 coiled cord to automatically return to it's flaccid memory position 6 on the telecommunication wrist band 1.

It is important that the separation 6 of transmitter receiver 2 and speaker 3 on the flaccid telecommunication wrist band 1 is between 2 cm – 8 cm. If the separation distance is below 2 cm the transmitter receiver 2 will also travel across the arm and hand towards the two finger position 3A when the speaker 3 and telecommunication wrist band 1 is expanded. The transmitter receiver 2 and speaker 3 would be too close to the users head allowing possible hazardous electromagnetic radiation. If the transmitter receiver 2 and speaker 3 separation is above 8 cm the memory function of the telecommunication wrist band 1 coiled cord is too slack to automatically return.

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CLAIMS DEFINING THE INVENTION:

1) An expandable coiled cord telecommunications wrist band with a tethered speaker, a tethered microphone, and a tethered transmitter receiver on the circumference, so that the expandable cord can radiate 360 degrees upon a plain.

2) An expandable coiled cord telecommunications wrist band as in claim 1, where the transmitter receiver and speaker are separated between 2 cm and 8 cm when the cord is in a flaccid condition.

3) An expandable coiled cord telecommunications wrist band as in claim 1 and 2, where the microphone is positioned at a third position on the circumference of the wrist band to aid telecommunications when the speaker is held against an ear while speaking into the microphone.

FIG 1

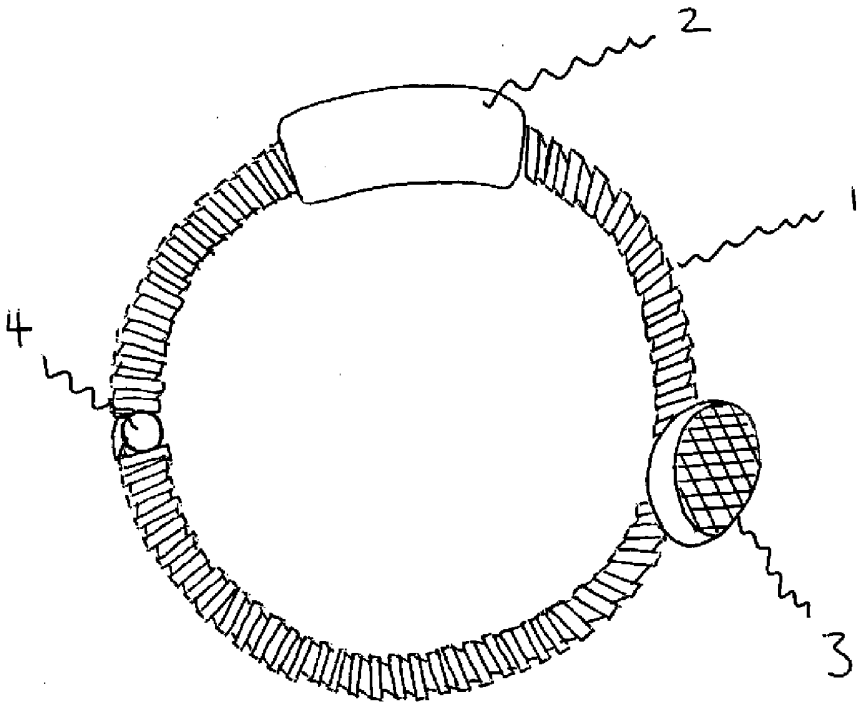

FIG 2

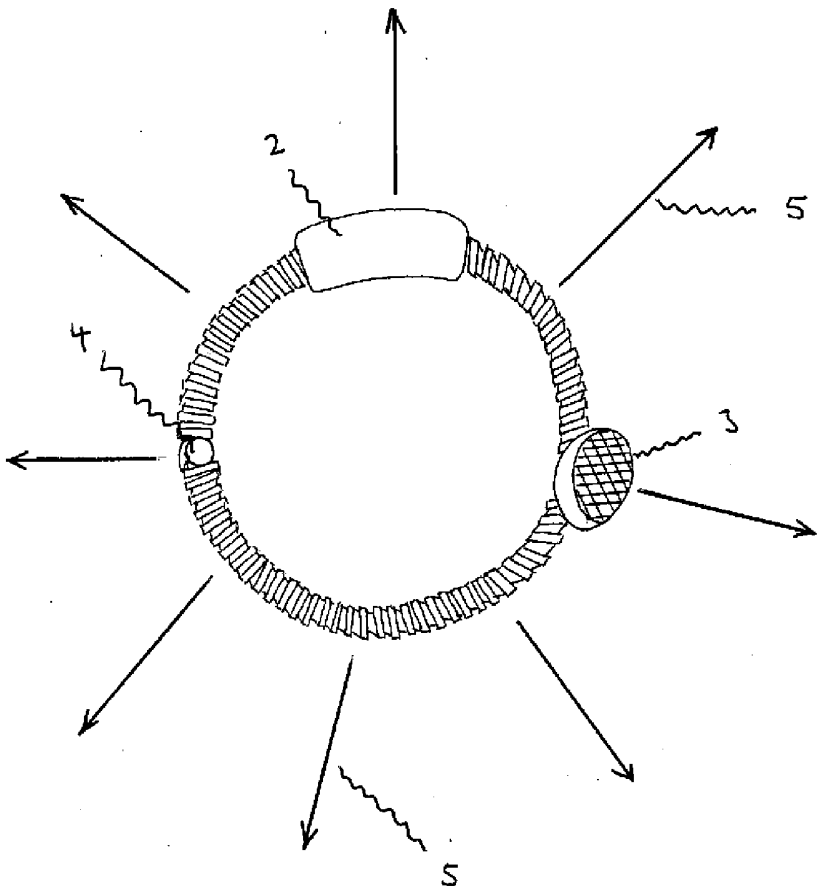

FIG 3

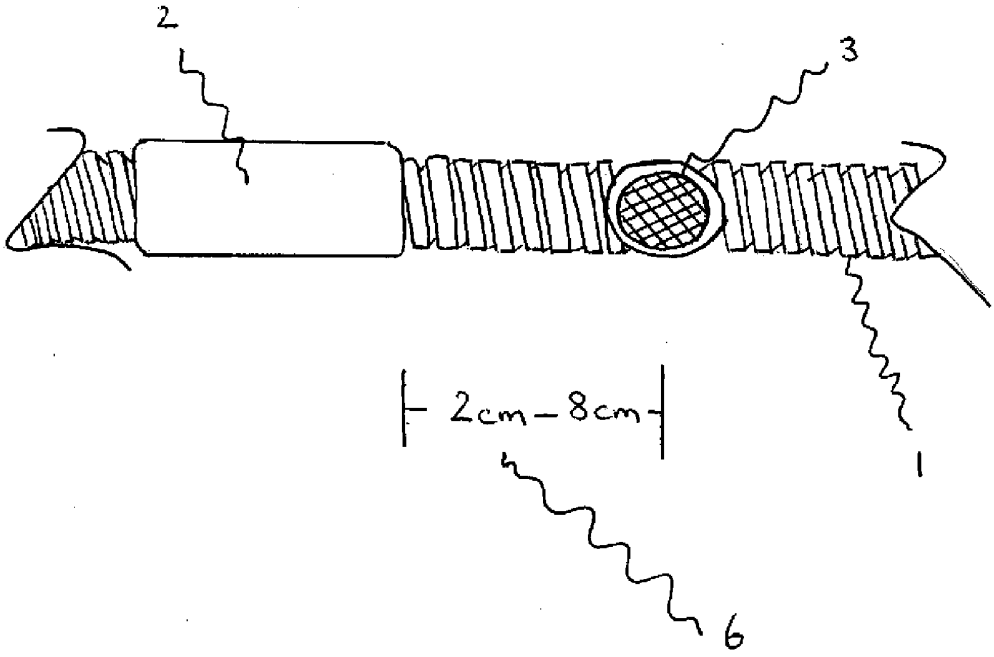

FIG 4