An adaptable earphone ear clip-on (10) which can be adjusted to the size of any ear and it helps earphones introduced in the ear to be held in the optimum position for hearing. The clip-on comprises a double hooked support (11) and an earphone connection patch (19). The double hooked support (11) has two hooks and the distance between these two hooks can be adjusted. Between the two hooks on a straight rod (16) there are fixed, on both sides support connection patches (18). On the earphones pipe (21) is fixed an earphones attachment part (19). The support's attachment parts (18) and the earphones attachment part (19), are attached one to the other if are pressed. The attachment can be detached by hand when is needed. The attachment parts can be a hook & loop connection type.
ADAPTABLE EARPHONES EAR CLIP-ON

Technical field

The invention relates generally to an adaptable earphones ear clip-on for placing, attaching and holding earphones close to the ear for an optimum hearing. The adaptable earphones-ear clip-on is placed comfortable around the junction of the outer ear and, in front of the ear, can be placed, attached and hold an earphone with wire or wireless connected to a mobile device like mobile phones, radios, MP3 player, walkman or other audio devices.

Background of the invention

Known clip-on methods or devices for earphones are:

a) simple placing and pressing of the earphone in the ears hole, will hold the earphones in the ear, if the shape and size of the earphone is fitting the shape and size of the ears hole. If the shape and size of the earphone is not fitting the shape and size of the ears hole the earphone will not be hold in a proper position for hearing, and it will fall out. Due to pressing of the earphone in the ear's hole after a time the listener can fill uncomfortable. Also at movements of the head or of the wire the earphones may fall out very easy.

b) Upper ear hook clip-on, which has a round hook placed on the upper part of the ear with a lower part placed in front of the ear which is ending with the earphones but has the disadvantage that the earphone is placed at fixed distance from the upper part of the ear and for different sizes and shapes of the ears the earphone is not placed in front of the ear's auditory channel. Also such not adaptable earphones clip-on have 2 symmetrical but different shapes for the left and right ear, so when the user places them, he has to chose the left earphone for the left ear and the right earphone for the right ear.

Summary of the invention

The object of this invention is to provide an earphone ear clip-on which can be adjusted to the size of any ear and it helps earphones introduced in the ear to be held in the optimum position for hearing.
According to the invention an earphone ear clip-on is provided comprising an adjustable double hooked support, and an earphone attachment part, fixed on the pipe of the earphones.

On the double hooked support is the support attachment part which can be a support connection patch made of connecting materials like hook& loop type. The adjustable double hooked support is placed around the ear and is adjusted to the size of the ear. On it can be attached the earphone with the earphone's attachment part. The double hooked support includes a rod with a straight rod part and a lower hooked part. 

Along the straight rod can be moved and then blocked an upper hook. The double hooked support comprises therefore the two hooks and the distance between these two hooks can be adjusted on the straight rod.

On the straight rod is fixed a support's attachment part which attaches by pressing on an earphones attachment part which is fixed on the inner part of the pipe of earphones. The support attachment part and the earphones attachment part can be made can be made by the two mother and father parts, of different materials and shapes which can be attached and then detached one to the other. In the preferred embodiment of this invention the joint is made by a hook&loop patches. The support attachment part of is a loop patch, permanently fixed on the supports rod. The earphones attachment part is a hook patch, permanently fixed on the pipe of the earphone, toward the ear.

After the hooked support is placed on the ear and adjusted to the size of the ear with the straight rod in front of the ear, the earphone is placed with the speaker in the ear in the most convenient position, and the pipe of the earphone is pressed on the rod. The support attachment part and the earphones attachment part are pressed and coupled one to the other.

Therefore the object of this invention is to provide an earphone ear clip-on which can be adjusted, adapted to the shape of the ear by placing the double hooked support around the ear and adjusting the distance between the inferior hook of the support and the upper hook along the straight rod. The earphone is then placed in the ear, in the hole of in the inner ear in the most comfortable position. Then the pipe of the earphone on which is fixed an earphone attachment part is attached by pressing on the support attachment.

In an embodiment of this invention there is a second support attachment part on the other side of the straight rod. With 2 support attachment parts, like the 2 loop patches on the straight rod, the hooked support can be placed on any ear, left or right and the earphones can be attached also on any ear, left or right.

The adjustment is made both for the size of the ear and the shape of the ear and the position of the hole of the ear, in the most comfortable manner. The holding of the ear is stable, but can be detached when is needed by hand.
Brief description of the drawings

In the accompanying drawings:

Figure 1 is a view of an earl, with the hole of the ear 2, the ear-head junction 3, the upper ear junction 4, the lower ear junction 5, the front of the ear 6 marked with dot lines.

Figure 2 is a perspective view of the adaptable earphone ear clip-on 10.

Figure 3 is a view of the component parts of the adaptable earphone ear clip-on 10.

Figure 4 is a view of an earphone.

Figure 5 is a view of an earphone with earphones attachment part 19 fixed on it.

Figure 6 is a view of an adaptable earphone ear clip-on 10, hooked on an earl and an earphone with an earphone attachment part 19 attached on the support attachment part 18 of the double hooked support 11.

Description of the preferred embodiment

The detailed description set forth below in connection with the appended figures is intended, merely, as a description of the presently preferred embodiment of the invention, and is not intended to represent the only form in which the present invention may be constructed or utilized.

Figure 2 and figure 3 show an adaptable earphone ear clip-on 10 according to a preferred embodiment of the invention. The clip-on 10 basically comprises a double hooked support 11 and an earphone's attachment part 19. The double hooked support 11 comprises an upper hook 13 and a rod 15 with a straight rod 16 and a lower hooked rod 17. The upper hook 13 can be moved along the straight rod 16 until the double hooked support 11 is adjusted to the ears size and then the upper hook 13 is blocked. The upper hook 13 has a whole 14 of the shape of section of the straight rode 16. The upper hook 13 is made of synthetic rubber so it provides a possibility of blocking by rubbing against the straight rod 16, after adjustment is made.

On the straight rod 16 there are fixed, on both sides support's attachment parts 18.

On the earphone 20, on the earphones pipe 21 is fixed an earphones attachment part 19. The support connection patches 18 and the earphone's attachment part 19, are attached one to the other if are pressed. The connection between support's attachment part 18 and the earphone's connection part 19 can be detached with the hand when is needed.

In the most preferred embodiment of the invention the attachment parts can be a hook & loop connection type. Preferably the support attachment parts 18 are loop patches and the earphones attachment part 19 is a hook patch.
According to a preferred embodiment of the invention the double hooked support 11 is placed around the ear 1 and the upper hook 13 is moved along the straight rod 16 until the double hooked support 11 is adjusted to the ears size and then the upper hook 13 is blocked. After that the earphone 20 is placed with the earphones speaker 22 in the ear's hole 2 at the entrance of the auditory channel of the ear. The earphone 20 is placed in the most convenient and comfortable position. After that the pipe of the earphone 21 with the earphones attachment part 19 is pressed and attached on the support's attachment part 18 of the double hooked support 11.

The invention provides a comfortable holding, an optimum positioning of the earphone for audition.
Claims

1. An adaptable earphone ear clip-on for attaching and holding an earphone (20) to an ear (1) comprising a double hooked support (11) with a straight rod (16) and two hooks, one lower hook (17) at the lower end of the rod (16) and one upper hook (13) characterized in that on the straight rod (12) there are fixed, on both sides, two support's attachment parts (18) and on the earphones pipe (21) of the earphone (20) is fixed a earphones attachment part (19) which is attached if is pressed on the support's attachment parts (18).

2. An adaptable earphone ear clip-on according to claim 1, further characterised in that the distance between the upper hook and the lower hook can be adjusted by moving one hook toward the other along the straight rod (16) and can be blocked when needed.

3. An adaptable earphone ear clip-on according to claim 1 or claim 2 further characterised in that the support's attachment parts (18) and earphone's attachment part (19) are hook&loop connection patches.

4. An adaptable earphone ear clip-on according to claim 1 or claim 2 or 3 further characterised in that the upper hook (13) has a hole 14 of the shape of section of the straight rode 16, with a possibility of blocking it by rubbing against the straight rod 16.

5. An adaptable earphone ear clip-on according to claim 1 or claim 2 or 3 further characterised in that the upper hook (13) has a hole that allows it to fix the rod (15) on the glasses.