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TITLE: HANDS FREE HANDSET HOLDER

BACKGROUND OF THE INVENTION

1. Field of the Invention

This invention is related to a hands free handset holder and in particular to
5 one which enables one to hold a handset to talk while working with one's two
hands.

2. Description of the Prior Art

It has been found that one will often hold a handset with one's neck to
talk in order to free one's two hands to do other things. However, the neck
10 will become stiff after talking for a certain period of time in this manner
thereby making the handset occasionally slip from the neck, and so one will
use one's neck to apply a larger force to hold the handset firmly thus easily
injuring the neck.

Therefore, it is an object of the present invention to provide a hands free
15 handset holder which can obviate and mitigate the above-mentioned
drawbacks.

SUMMARY OF THE INVENTION

This invention is related to a hands free handset holder.

According to a preferred embodiment of the present invention, a hands free handset holder includes an arch-shaped positioner having a bottom
5 provided with a soft pad and configured to be fitted on one's shoulder, the positioner having a downwardly extending bar having a cavity which has an open bottom, an arm having an upper portion inserted into the cavity and a lower portion provided with a plurality of radial teeth at one side thereof, an elongated bracket having a side provided with a plurality of radial teeth
10 engaged with the teeth of the arm, and a strap for wrapping a handset on the bracket, whereby one can hold a handset on a shoulder comfortably while working with one's two hands.

It is the primary object of the present invention to provide a hands free handset holder which enables one to hold a handset to talk while working with
15 one's two hands.

It is another object of the present invention to provide a hands free handset holder which can prevent one's neck from being injured.

It is still another object of the present invention to provide a hands free handset holder which is easy to use.

20 It is still another object of the present invention to provide a hands free

handset holder which can be easily adjusted to fit one's needs.

It is a further object of the present invention to provide a hands free handset holder which is fit for practical use.

The foregoing objects and summary provide only a brief introduction to
5 the present invention. To fully appreciate these and other objects of the present invention as well as the invention itself, all of which will become apparent to those skilled in the art, the following detailed description of the invention and the claims should be read in conjunction with the accompanying drawings. Throughout the specification and drawings identical reference
10 numerals refer to identical or similar parts. Many other advantages and features of the present invention will become manifest to those versed in the art upon making reference to the detailed description and the accompanying sheets of drawings in which a preferred structural embodiment incorporating the principles of the present invention is shown by way of illustrative example.

BRIEF DESCRIPTION OF THE DRAWINGS

FIG. 1 is an exploded view of the present invention;

FIG. 2 is a perspective view of the present invention;

FIG. 3 is an enlarged sectional view of a portion of FIG. 2;

5 FIG. 4 illustrates how to mount a handset on the present invention;

FIG. 5 is a perspective view illustrating how a handset is held by the
present invention;

FIGS. 6A and 6B are working views of the present invention;

FIG. 7A is a front elevational view of the present invention;

10 FIG. 7B is a side elevational view of the present invention;

FIG. 8A illustrates how to adjust the position of the bracket; and

FIG. 8B is an enlarged fragmentary view illustrating the relationship
between the arm and the bracket.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT

For the purpose of promoting an understanding of the principles of the invention, reference will now be made to the embodiment illustrated in the drawings. Specific language will be used to describe same. It will, nevertheless, be understood that no limitation of the scope of the invention is thereby intended, such alterations and further modifications in the illustrated device, and such further applications of the principles of the invention as illustrated herein being contemplated as would normally occur to one skilled in the art to which the invention relates.

10 With reference to the drawings and in particular to FIGS. 1 and 2 thereof, the handset holder according to the present invention generally comprises a positioner 1, a bracket 2 and an arm 12. The positioner 1 is an arch-shaped member provided at the bottom with a soft pad 10 and configured to be placed on a user's shoulder. The positioner 1 is provided with a downwardly
15 extending bar 11 having a cavity 111 which is open at the bottom. The bar 11 has a plurality of through holes 112 which are communicated with the cavity 111. The arm 12 has an upper portion 122 configured to be closely fitted in the cavity 111 of the bar 11 and a lower portion having an engaging side 121 formed with a plurality of radial teeth. The upper portion 122 of the
20 arm 12 is provided at both sides with a projection 123 adapted to engage with

respective one of the through holes 112 of the bar 11. The lower portion of the arm 12 has a center through hole 124 in which is fitted a spring 126. The bracket 2 is an elongated member with a slightly curved bottom on which are parallelly arranged two soft pads 20. The bracket 2 has an engaging side 21
5 formed with a plurality of radial teeth engaged with the radial teeth of the arm 12 and a threaded hole 22 aligned with the center through hole 124 of the arm 12. A screw 125 extends through the spring 126 and the center through hole 124 of the arm 12 to engage with the threaded hole 22 of the bracket 2 (see FIG. 3), so that the bracket 2 can be slightly pulled outwardly and then rotated
10 with respect to the bar 12 thereby enabling the bracket 2 to be adjusted with respect to the bar 12 in angular position.

The bracket 2 is first placed on a handset (shown but not numbered) and kept in engagement with the handset by a strap 3 which is provided with a self-adhesive member 3 at both ends thereof (see FIGS. 4 and 5). When in
15 use, the positioner 1 is arranged on the user's shoulder so that the handset can be firmly held between the shoulder and the head thereby enabling the user to talk in comfortable and relax manner and therefore preventing the neck from getting injured (see FIGS. 6A and 6B).

Referring to FIGS. 7A, 7B, 8A and 8B, when desired to adjust the
20 distance between the handset and the positioner 1, it is only necessary to pull

the positioner 1 out of the arm 2 or push the positioner 1 into the arm 2 as required. When required to adjust the angular position of the bracket 2, simply pull the bracket 2 slightly outwardly and then rotate the bracket 2 to the desired position with respect to the bar 12 thereby enabling the bracket 2 to be
5 adjusted with respect to the bar 12 in angular position. As the bracket 2 is released, the spring 126 will force the arm 12 to engage firmly with the bracket 2.

In conclusion, the handset holder according to the present invention has the following advantages:

- 10 1. Effectively preventing one's neck from being injured;
2. Easy to use;
3. Readily adjustable and adapted for use with either shoulder; and
4. Enabling a user to hold a handset to talk while working with his or her two hands.

15 It will be understood that each of the elements described above, or two or more together may also find a useful application in other types of methods differing from the type described above.

While certain novel features of this invention have been shown and described and are pointed out in the annexed claim, it is not intended to be
20 limited to the details above, since it will be understood that various omissions,

modifications, substitutions and changes in the forms and details of the device illustrated and in its operation can be made by those skilled in the art without departing in any way from the spirit of the present invention.

I CLAIM:



1. A hands free handset holder comprising:
 - an arch-shaped positioner having a bottom provided with a soft pad
 - and configured to be fitted on one's shoulder, said positioner having a
 - 5 downwardly extending bar having a cavity which has an open bottom;
 - an arm having an upper portion inserted into said cavity and a lower
 - portion provided with a plurality of radial teeth at one side thereof;
 - an elongated bracket having a side provided with a plurality of radial
 - teeth engaged with said teeth of said arm; and
 - 10 a strap for wrapping a handset on said bracket;
 - whereby one can hold a handset on a shoulder comfortably while
 - working with one's two hands.
2. The hands free handset holder as claimed in claim 1, wherein said bar
- is formed with a plurality of through holes and said upper portion of said arm
- 15 has two projections at two sides thereof configured to engage with said holes.
3. The hands free handset holder as claimed in claim 1, wherein said
- lower portion of said arm has a center through hole in which is fitted a spring
- and a screw extending through said spring.
4. The hands free handset holder as claimed in claim 1, wherein said
- 20 cavity is configured to engage closely engaged with said upper portion of said

arm.

