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MOUNTING FOR HAND TELEPHONES

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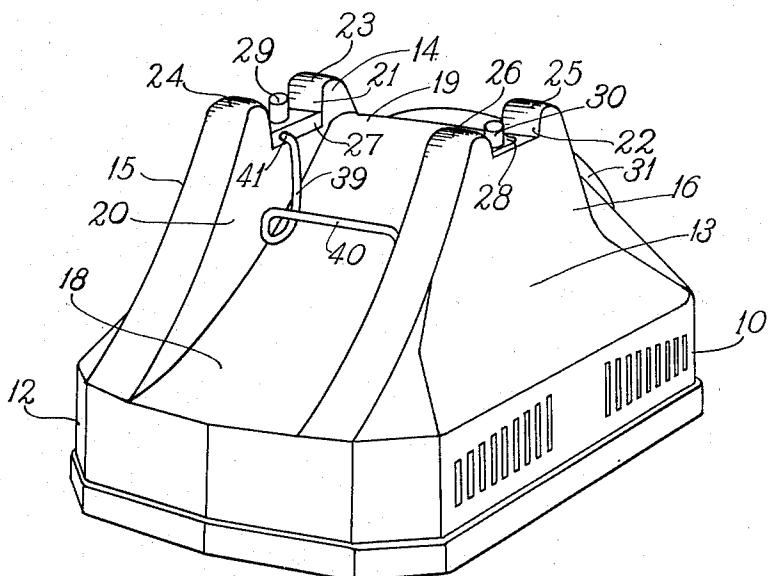


Fig. 1

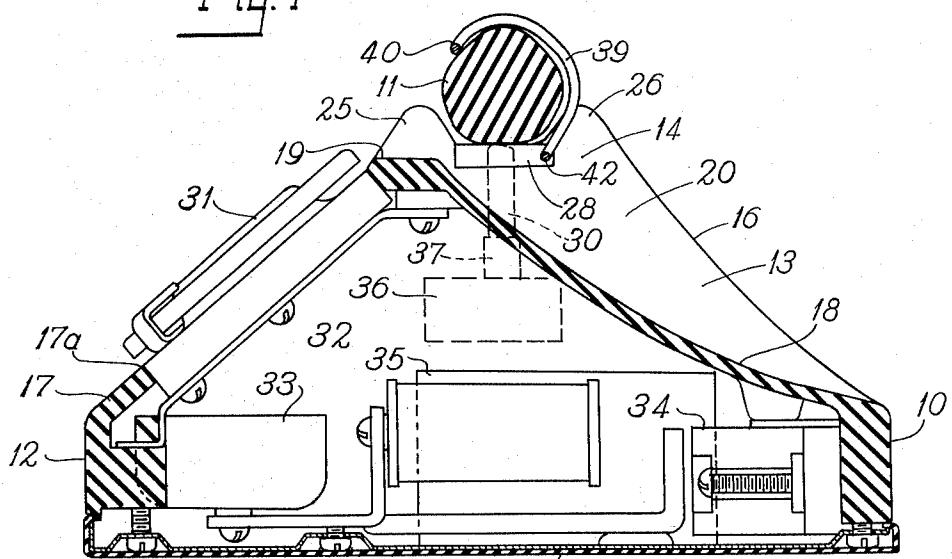


Fig. 2

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## UNITED STATES PATENT OFFICE

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## MOUNTING FOR HAND TELEPHONES

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5 Claims. (Cl. 179—146)

The present invention relates to mountings for telephones and, more particularly, to desk mountings for hand telephones.

A mounting of this type conventionally comprises a supporting base, a pedestal carrying a calling dial, and a cradle provided with a switch-hook and adapted to support a hand telephone or hand set of the well-known monophone type; the usual substation apparatus, including an induction coil, a condenser, a signal bell and a switching mechanism, being housed in the supporting base and pedestal of the mounting.

It is an object of the present invention to provide a mounting of the type described which is of simple and rugged construction and which embodies an improved arrangement for facilitating movement from place to place of the mounting and the hand telephone supported thereby.

Another object of the invention is to provide a mounting of the type described which embodies an arrangement for latching the handle of the hand telephone securely in place in the cradle of the mounting in order to prevent operation of the switching mechanism housed in the mounting incident to the movement from place to place of the mounting and the hand telephone supported thereby.

The objects set forth above are attained in accordance with the present invention by providing a mounting of the character described comprising a base, a pedestal and a cradle including two spaced-apart and upwardly extending cradle members, the pedestal including front and rear upwardly and inwardly extending walls and upwardly extending side walls formed by the cradle members. The rear wall of the pedestal and the cradle members are so constructed and arranged that a substantially channel-shaped recess is provided in the rear of the pedestal, the cradle members being provided with aligned cradle seats therein adapted to support the handle of the hand telephone. An element having a body portion and extending between the cradle members is pivotally mounted on the cradle members immediately below the plane of the aligned cradle seats provided therein. The element has a normal position wherein the body portion thereof is disposed below the plane of the aligned cradle seats provided in the cradle members and in the recess provided in the rear of the pedestal and an operated position wherein the body portion thereof is disposed above the plane of the aligned cradle seats provided in the cradle members and in latching engagement

with the handle of the hand telephone, thereby to latch the handle of the hand telephone securely in place into the aligned cradle seats provided in the cradle members. The element is so constructed and arranged that the body portion thereof is readily accessible when it occupies its normal position, thereby to accommodate rotational movement of the element from its normal position to its operated position. The hand telephone and the mounting are so constructed and arranged that the hand telephone and the mounting are movable as a unit from place to place by the handle of the hand telephone when the handle of the hand telephone is latched in place in the aligned cradle seats provided in the cradle members. Also, switching mechanism is arranged within the mounting and a movable member is associated with the cradle and operatively connected to the switching mechanism. The cradle and the member are so constructed and arranged that the switching mechanism is controlled in accordance with placement and removal of the handle of the hand telephone with respect to the cradle. When the handle of the hand telephone is securely latched in place in the cradle, operation of the switching mechanism incident to the movement from place to place of the mounting and the hand telephone supported thereby is positively prevented.

The novel features believed to be characteristic of the invention are set forth with particularity in the appended claims. The invention, both as to its organization and method of operation, together with further objects and advantages thereof, will best be understood by reference to the following specification taken in connection with the accompanying drawing, in which Figure 1 is a perspective view of a mounting for a hand telephone which is constructed and arranged in accordance with the present invention; and Fig. 2 is a longitudinal sectional view of the mounting shown in Fig. 1 and a hand telephone supported thereby, illustrating the operated position of an element of the mounting and the substation apparatus housed therein.

Referring now more particularly to the drawing, there is shown a desk mounting or support 10 for a hand telephone or hand set of the well-known Monophone type illustrated at 11, which mounting comprises a supporting base 12, a pedestal 13, and a cradle 14 including two spaced-apart and upwardly extending cradle members 15 and 16. The pedestal 13 is provided with front and rear upwardly and inwardly extend-

ing walls 17 and 18 converging slightly forwardly of the cradle 14, a top wall 19 extending between the front and rear walls 17 and 18, respectively, and upwardly extending side walls formed by the 5 cradle members 15 and 16. The top and rear walls 19 and 18, respectively, of the pedestal 13 and the cradle members 15 and 16 are so constructed and arranged that a continuous substantially channel-shaped recess 20 is provided 10 in the top and rear of the pedestal 13. Aligned cradle seats 21 and 22 are provided in the cradle members 15 and 16, respectively, the cradle seat 21 provided in the cradle member 15 being formed therein by spaced-apart and upwardly 15 extending front and rear tines 23 and 24, respectively; and the cradle seat 22 provided in the cradle member 16 being formed therein by spaced-apart and upwardly extending front and rear tines 25 and 26, respectively. The cradle 20 seats 21 and 22 provided in the cradle members 15 and 16 are provided with recesses therein into which two mental inserts 27 and 28, respectively, are securely positioned, the inserts 26 and 27 having openings therein into which two switch- 25 hooks or plungers 29 and 30, respectively, are slidably mounted.

The front wall 17 of the pedestal 13 is provided with an annular recess 17a therein within which a calling dial 31 is positioned and supported in 30 place. The interiors of the supporting base 12 and the pedestal 13 are hollow in order to provide a continuous cavity 32 therein which accommodates the usual substation apparatus such as a signal bell 33, an induction coil 34, a condenser 35 and a switching mechanism 36, the switching mechanism 36 being operatively associated with the switchhooks or plungers 29 and 30 by a suitable connecting lever mechanism 37. The opening into the cavity 32 formed in the supporting 40 base 12 and the pedestal 13 is closed by a suitable base plate 38 fastened to the supporting base 12. Also, the mounting 10 is so constructed and arranged that the center of gravity thereof is disposed in a substantially vertical plane extending through the aligned cradle seats 21 and 22 provided in the cradle members 15 and 16, respectively, in order to insure proper balance of the mounting.

The handle of the hand telephone 11 is supported in the aligned cradle seats 21 and 22 provided in the cradle members 15 and 16, respectively, the weight of the hand telephone being adequate to retain the switchhooks or plungers 29 and 30 in their depressed positions 50 against the bias of the switching mechanism 36, in order to retain the switching mechanism 36 in its open circuit position in a well-known manner. When the handle of the hand telephone 11 is removed from the supporting cradle seats 21 and 22 provided in the cradle members 15 and 16, respectively, the switchhooks or plungers 29 and 30 are projected outwardly under the bias of the switching mechanism 36, in order to cause the switching mechanism 36 to be operated to its 60 closed circuit position in a well-known manner.

In order to facilitate movement of the mounting 10 and the hand telephone 11 supported thereby from place to place, an arrangement is provided which comprises a resilient metallic 70 element 39 provided with a body portion 40 and two outwardly extending pivot pins 41 and 42 arranged in aligned openings provided in the inserts 27 and 28, respectively. Accordingly, the element 39 extends between the cradle members 75 15 and 16 and is pivotally mounted in the aligned

openings provided in the inserts 27 and 28 carried by the cradle members 15 and 16, respectively. The element 39 has a normal position wherein the body portion 40 thereof is disposed below the plane of the aligned cradle seats 21 and 22 provided in the cradle members 15 and 16, respectively, and substantially entirely in the recess 20 provided in the rear of the pedestal 13. Also, the element 39 has an operated position wherein the body portion 40 thereof is disposed above the plane of the aligned cradle seats 21 and 22 provided in the cradle members 15 and 16 and in latching engagement with the handle of the hand telephone 11. The element 39 is so constructed and arranged that the body portion 40 thereof is readily accessible when it occupies its normal position, thereby to accommodate rotational movement of the element from its normal position to its operated position. When the element 39 occupies its operated position, the handle of the hand telephone 11 is securely latched in place in the aligned cradle seats 21 and 22 provided in the cradle members 15 and 16, respectively, thereby to prevent operation of the switching mechanism 36 housed in the cavity 32 25 provided in the pedestal 13 incident to the movement from place to place of the mounting 10 and the hand telephone 11 supported thereby. Also, it is noted that the element 39 is so constructed and arranged that when it is moved from its 30 normal position to its operated position, the body portion 40 thereof is sprung over the top portion of the handle of the hand telephone 11, thereby to clamp the handle of the hand telephone 11 securely in place in the aligned cradle seats 21 35 and 22 provided in the cradle members 15 and 16, respectively.

The hand telephone 11 and the mounting 10 are so constructed and arranged that the hand telephone 11 and the mounting 10 are movable as a unit from place to place by the handle of the hand telephone 11 when the handle of the hand telephone 11 is latched in place in the aligned cradle seats 21 and 22 provided in the cradle members 15 and 16, respectively. It is contemplated that the person desiring to move the mounting 10 and the hand telephone 11 supported thereby from one place to another will first grasp the body portion 40 of the element 39 and rotate the element 39 in a counterclockwise direction about the pivot pins 41 and 42, as viewed in Fig. 2, from its normal position to its operated position, thereby securely to latch the handle of the hand telephone 11 in the aligned cradle seats 21 and 22 provided in the 55 cradle members 15 and 16. The person may then conveniently move the mounting 10 and the hand telephone 11 supported thereby from one place to another by inserting his fingers in the recess 20 provided in the rear of the pedestal 13 and 60 gripping the handle of the hand telephone 11. When the mounting 10 and the hand telephone 11 supported thereby are thus moved, the hand telephone 11 is moved directly and the mounting 10 is secured fastened to the handle of the hand 65 telephone 11 by the element 39 as previously explained.

In view of the foregoing, it is apparent that a desk mounting for a hand telephone is provided which is of simple and rugged construction and 70 which embodies an improved arrangement for facilitating movement from place to place of the mounting and the hand telephone supported thereby and for preventing operation of the switching mechanism housed in the mounting 75

and operatively associated with the cradle of the mounting incident to the movement of the mounting and the hand telephone supported thereby.

5 While there has been described what is at present considered to be the preferred embodiment of the invention, it will be understood that various modifications may be made therein, and it is contemplated in the appended claims to cover 10 all such modifications as fall within the true spirit and scope of the invention.

What is claimed is:

1. In combination with a hand telephone provided with a handle, a mounting comprising a base, a cradle adapted to receive and support the handle of said hand telephone, and means operative to latch the handle of said hand telephone securely in place in said cradle, said hand telephone and said mounting being so constructed and arranged that said hand telephone and said mounting are movable as a unit from place to place by the handle of said hand telephone when the handle of said hand telephone is latched in place in said cradle.
2. In combination with a hand telephone provided with a handle, a mounting comprising a base, a pedestal, a cradle including two spaced-apart and upwardly extending cradle members, said cradle members being provided with aligned cradle seats therein adapted to support the handle of said hand telephone, said pedestal having a recess therein disposed below the plane of said cradle and the handle of said hand telephone, and an element carried by said mounting and operative to latch the handle of said hand telephone securely in place in the aligned cradle seats provided in said cradle members, said hand telephone and said mounting being so constructed and arranged that said hand telephone and said mounting are movable as a unit from place to place by the handle of said hand telephone when the handle of said hand telephone is latched in place in the aligned cradle seats provided in said cradle members.
3. In combination with a hand telephone provided with a handle, a mounting comprising a base, a pedestal, a cradle including two spaced-apart and upwardly extending cradle members, said cradle members being provided with aligned cradle seats therein adapted to support the handle of said hand telephone, said pedestal including front and rear upwardly and inwardly extending walls and upwardly extending side walls formed by said cradle members, the rear wall of said pedestal and said cradle members being so constructed and arranged that a substantially channel-shaped recess is provided in the rear of said pedestal, and an element extending between said cradle members and pivotally mounted thereon, said element having a normal position wherein it is disposed substantially entirely in the recess provided in the rear of said pedestal and an operated position wherein it is disposed substantially out of the recess provided in the rear of said pedestal and in latching engagement with the handle of said hand telephone, thereby to latch the handle of said hand telephone securely in place in the aligned cradle seats provided in said cradle members, said hand telephone and said mounting being so constructed and arranged that said hand telephone and said mounting are movable as a unit from place to place to

place by the handle of said hand telephone when the handle of said hand telephone is latched in place in the aligned cradle seats provided in said cradle members.

4. In combination with a hand telephone provided with a handle, a mounting comprising a base, a pedestal, a cradle including two spaced-apart and upwardly extending cradle members, said cradle members being provided with aligned cradle seats therein adapted to support the handle of said hand telephone, said pedestal including front and rear upwardly and inwardly extending walls and upwardly extending side walls formed by said cradle members, the rear wall of said pedestal and said cradle members being so constructed and arranged that a substantially channel-shaped recess is provided in the rear of said pedestal, and an element having a body portion and extending between said cradle members and pivotally mounted thereon immediately below the plane of the aligned cradle seats provided therein, said element having a normal position wherein the body portion thereof is disposed below the plane of the aligned cradle seats provided in said cradle members and in the recess provided in the rear of said pedestal and an operated position wherein the body portion thereof is disposed above the plane of the aligned cradle seats provided in said cradle members and in latching engagement with the handle of said hand telephone, thereby to latch the handle of said hand telephone securely in place in the aligned cradle seats provided in said cradle members, said element being so constructed and arranged that the body portion thereof is readily accessible when it occupies its normal position, thereby to accommodate rotational movement of said element from its normal position to its operated position, said hand telephone and said mounting being so constructed and arranged that said hand telephone and said mounting are movable as a unit from place to place by the handle of said hand telephone when the handle of said hand telephone is latched in place in the aligned cradle seats provided in said cradle members.

5. In combination with a hand telephone provided with a handle, a hollow mounting comprising a base, a cradle adapted to receive and support the handle of said hand telephone, switch mechanism arranged within said mounting, a movable member associated with said cradle and operatively connected to said switching mechanism, said cradle and said member being so constructed and arranged that said switching mechanism is controlled in accordance with placement and removal of the handle of said hand telephone with respect to said cradle, and means operative to latch the handle of said hand telephone securely in place in said cradle, thereby to prevent operation of said switching mechanism incident to the movement from place to place of said mounting and said hand telephone supported thereby, said hand telephone and said mounting being so constructed and arranged that said hand telephone and said mounting are movable as a unit from place to place by the handle of said hand telephone when the handle of said hand telephone is latched in place in said cradle.

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