March 18, 1930. R. F. STEHLIK 1,751,255

CRADLE TYPE TELEPHONE DESK SET

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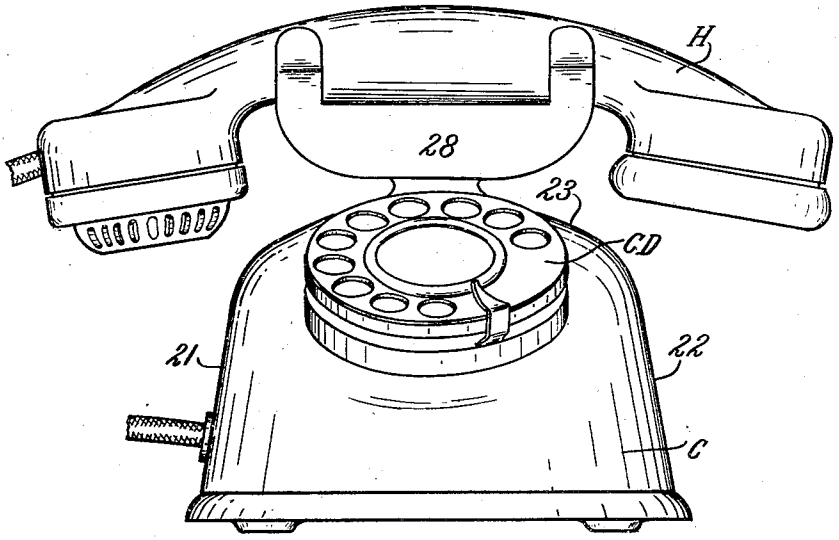
Fig. 1



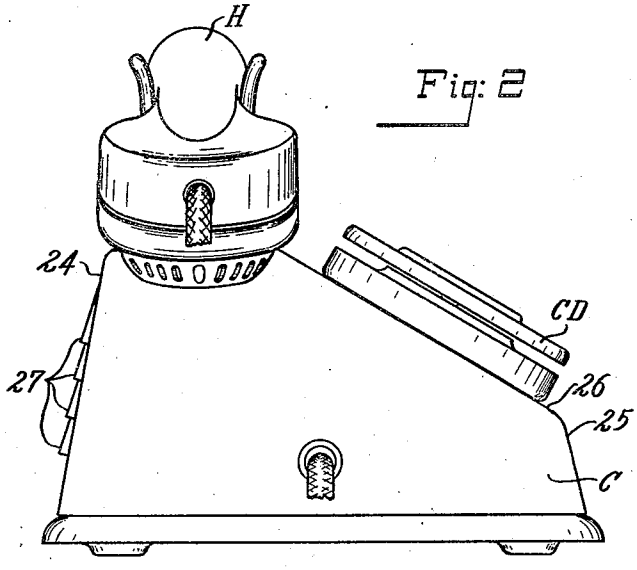


Fig. 2

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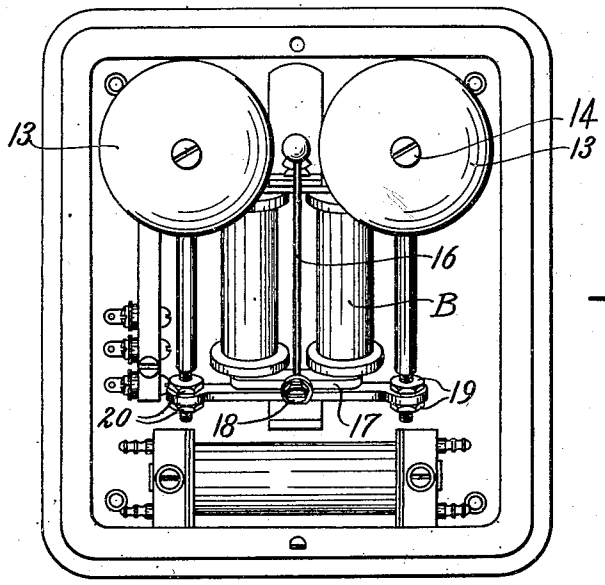
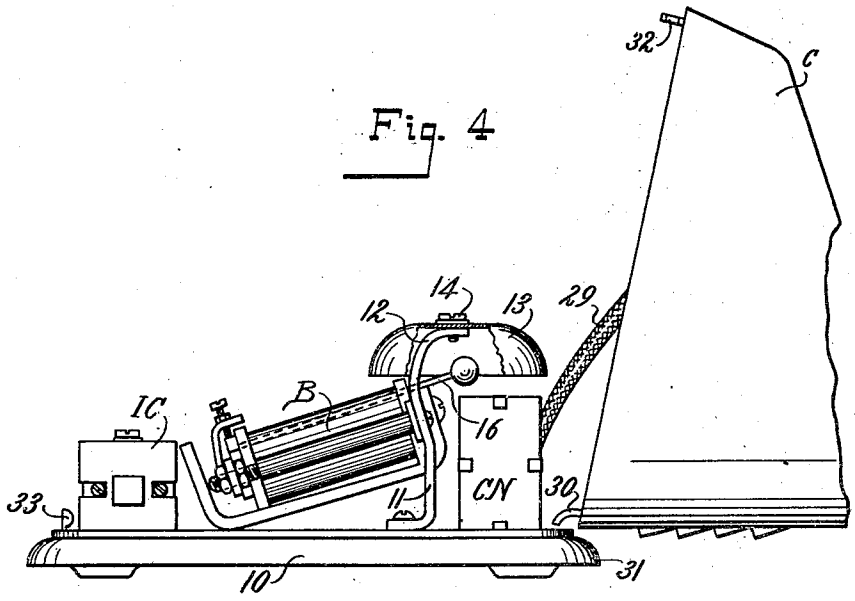


Fig. 3

Fig. 4



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UNITED STATES PATENT OFFICE

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CRADLE-TYPE TELEPHONE DESK SET

Application filed April 2, 1928, Serial No. 266,576, and in Belgium December 20, 1927.

The present invention concerns improvements in or relating to telephone instruments, and while it more particularly relates to instruments having a cradle switch of the type described in Belgian Patent No. 332,991, it must not be considered as being limited to such cradle type instruments.

The particular feature of novelty of the present invention resides in the arrangement by which the bell or like device, by which the attention of the subscriber is called, is arranged so as to lie just behind and parallel to the sloping front of the cover of the instrument so that when the cover is removed the bell is immediately accessible for adjustment. In no known device has the bell been provided in a position where the adjustment can be so facilitated. Conveniently a dial switch or other calling device is fitted on the sloping front of the cover which also becomes available for adjustment by the removal of the cover.

The invention will be better understood by referring to the accompanying drawings, in which Fig. 1 shows a front view of the new type instrument with hand-set in position on the cradle; Fig. 2 shows a side elevation; Fig. 3 shows a plan with the cover removed, and Fig. 4 shows a side view with the cover open.

The invention will be better understood by referring to Figs. 3 and 4, in which B represents the bell, which it will be noted is supported at an angle from the base 10 by means of the bracket 11. This bell is supported intermediate certain equipment which does not require adjustment, and generally, requires no attention or maintenance. In the drawings this equipment is represented by an induction coil IC and by a condenser CN, which are located respectively at the foot and at the head of the bell and are fixed directly to the base 10. The bracket 11 carries supports 12 to which the gongs 13 of the bell B can be supported. These gongs, it will be noted, are supported on a vertical bracket, the arm 12 extending vertically and being provided with a threaded socket, not shown, into which the screws 14 can be fitted to secure the gongs in position. The hammer 16 of the bell is arranged to oscillate between the gongs 13, as shown, and for this purpose the hammer rod 16 is suitably bent, this hammer rod 16 extending from the armature 17 of the bell at the front side of the bell, so that it can be readily adjusted, in the same way as the pivot screw 18. The nuts 19 and 20 are provided as usual to enable the position of the armature with respect to the cores of the bell to be adjusted, and it will be noted from Figs. 3 and 4, that these adjustments can take place by simply removing the cover without even moving the base of the instrument from the table on which it is resting. This, therefore, provides a most advantageous way of fitting the bell, as in prior constructions it had usually been necessary to adjust the bell from underneath.

Another advantage of this construction is that the space in which the components of the inside of the telephone instrument can be confined is reduced to a minimum, particularly by arranging the gongs in the position shown, thereby reducing the size of the cover required and in consequence cheapening its construction.

The shape of the cover will be better understood by referring to Figs. 1 and 2, from which it will be noted from the front view, the cover C has two sloping sides 21, 22, and a curved top 23 corresponding very closely to the curvature at the top of the handset H, which curvature also corresponds to the outside parts of the gongs 13 inside the cover, while the side view consists of two steeply sloping sides 24, 25, one (24) much longer than the other (25), and an intermediate sloping side 26 on which the calling device CD is fitted. The calling device as shown is a type used in automatic telephone systems but conveniently in place thereof a selecting switch or keys of the type used in intercommunication systems could be employed. The cover on the side 24 is provided with hooded slots 27 to permit the bell to be heard without deadening its sound.

As above mentioned, the cradle switch can conveniently be of the type described in Belgian Patent No. 332,991, in which the contact springs are located within a chamber inside the cradle member 28, so that the conductors

extending between the cover and the base, which include conductors both for the dial switch and for the contact springs, are conveniently formed into a cable 29, as is seen in Fig. 4. The cover C is provided with a hinge 30 which fits into slots 31 in the base 10 and has a projecting clip 32 adapted to engage with a spring clip 33 in the base so as to hold the cover securely in position. It will be noted that to adjust the bell, it is only necessary to remove the cover to the position shown in Fig. 4, when all the parts requiring adjustment, 18, 19 and 20, become readily accessible. To adjust the dial, due to the cord 29, it is possible to remove the cover so as to turn it over and effect the required adjustments, and the replacing is a similar simple operation, so that by the present invention an instrument has been evolved which combines with the minimum of cost in production the maximum facilities for maintenance and adjustment.

What is claimed is:

1. In a desk telephone instrument having a hinged cover with a sloping front, a base, and a signalling device supported on said base in a plane parallel to the sloping front of said cover.

2. In a desk telephone instrument having a hinged cover with a sloping front, a base, a trembler bell, a bracket for securing said bell to the base in a position parallel to the sloping front of the cover, and a condenser secured to said base in the space between it and the gongs of said bell.

3. In a cradle-type telephone set, a base having a signalling device and a condenser and induction coil mounted thereon, a hinged cover for said base having its front sloping at a tangent parallel to said signalling device, and a calling device mounted on said cover.

4. In a telephone instrument, a base, a trembler bell supported at an inclination to said base and having other equipment which requires little or no attention located at the foot and head of the bell, the gongs of the bell being arranged to lie parallel to said base at the head of the bell and over certain of said equipment, and a hinged cover shaped to neatly cover the bell and equipment.

5. In a telephone set, a base having a trembler bell supported thereon at an inclination to the base, a cover for said base provided with a cradle member and having a sloping front on which is mounted a calling device, and a hinged connection between and at the rear of said base and cover to enable access to said bell and calling device to be readily obtained.

6. In a telephone instrument, a horizontal base, a condenser and induction coil mounted directly on said base, a signalling device mounted at an angle from said base and supported by a vertical bracket, gongs for said device mounted in a horizontal position on said bracket and in operative relation to said device, and a cover for said base hinged on the rear of said base and shaped so as to conform to the angle of said signalling device.

7. In a telephone instrument, a horizontally disposed base, a condenser and induction coil mounted directly on said base, a trembler bell supported on a bracket at an angle from the base and arranged between said induction coil and said condenser, the gongs of the bell mounted directly above said condenser and attached to the bracket, a hinged cover for said base having an inclined front to conform to the angle of said trembler bell, a cradle hook switch and hand telephone, supported on said cover, a calling device mounted on said cover on said inclined front, and means for rotating said cover backward on its hinges so that the apparatus under said cover and on said base may be readily accessible for adjustment and repair.

In witness whereof, I hereunto subscribe my name this sixth day of March, A. D. 1928.

RUDOLPH FRANK STEHLIK.