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1,949,447

CARD HOLDER

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FIG. 1

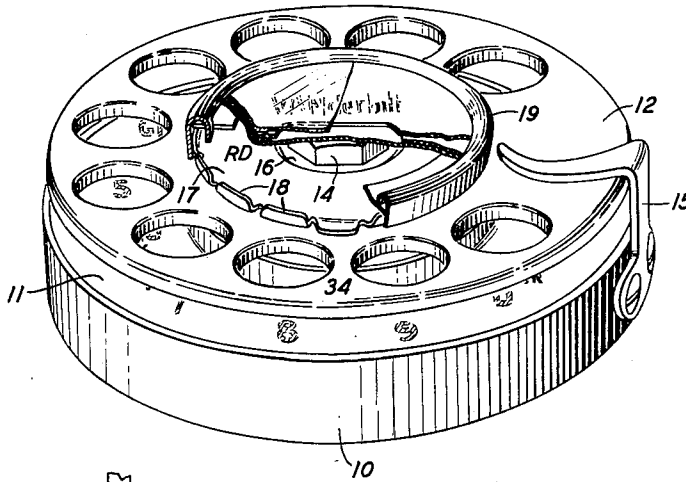


FIG. 2

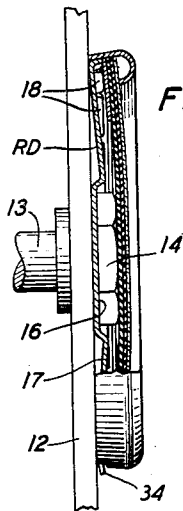


FIG. 3

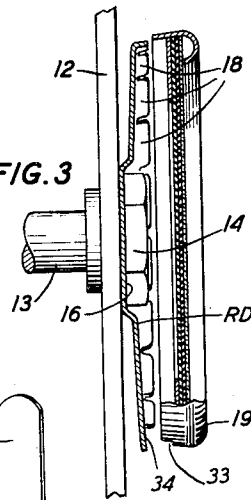
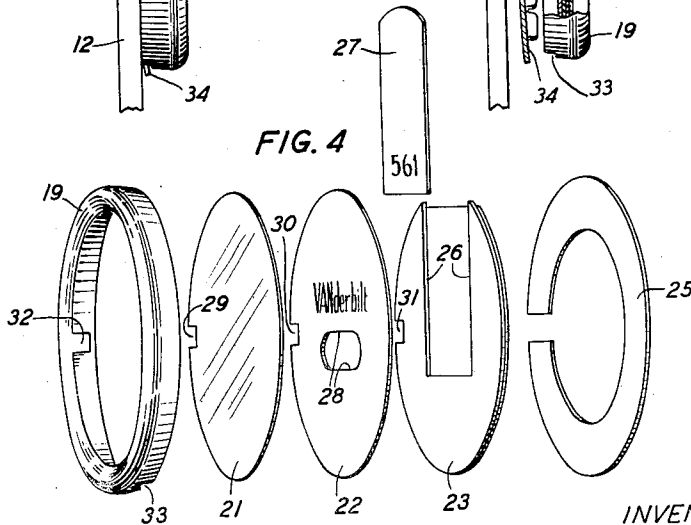


FIG. 4



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CARD HOLDER

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3 Claims. (Cl. 40—10.5)

This invention relates to telephone calling dials, and more specifically to a card holder for use in such dials.

In calling dials or impulse senders used in automatic telephone systems, a card frame is mounted on the finger wheel of the dial for holding an instruction card in such a position as to be easily read by the user. On this instruction card are printed among other information, the office name and the number of the subscriber's telephone line. Owing to the necessity of reassigning office names and numbers to the subscribers' lines, it is necessary at times to replace these cards by other cards bearing the new designation. The replacement of these cards has heretofore been effected by repairmen provided with specially designed tools for removing the card holder from the finger wheel to have access to the card. This, therefore, necessitates trips to the subscribers' premises by the repairmen.

The object of this invention is the provision of a card holder which will be simple, cheap to manufacture, easy to assemble and in which the card is readily removable by anyone without special tools.

According to this invention a mounting in the shape of a conical ring has its largest end portion inwardly turned to serve as an abutment for a card assembly which consists of a transparent disc, a plurality of instruction cards and a peripherally resilient washer, the washer engaging the ring frictionally for holding the cards and the disc securely in superposed relation in the mounting ring. The other end of this ring fits over a serrated rim formed with a resilient disc which is mounted on the finger wheel of the dial which thus serves as a supporting member for the card holder, this member also serving to limit the movement of the resilient disc when flexed into a convex shape so as to grip the ring due to the spreading out of the segmental portions formed by the serrations in the ring, the flexing of the disc in the opposite direction, that is, into a concave shape being effective to release the mounting ring due to the radial movement of the segmental portions toward the center of the disc and the consequent decrease of the diameter of the disc rim.

In the drawing Fig. 1 is a perspective view of a calling dial showing the card holder in adjusted position thereon, some of the parts being shown with portions cut away;

Fig. 2 is a partial cross-sectional view of the card holder assembly showing the resilient disc flexed in its normal convex or gripping position;

Fig. 3 is a cross-sectional view of the resilient disc shown flexed into a concave shape as to permit the placing or removal of the mounting ring on the disc, the ring being shown partly in section; and

Fig. 4 is an exploded view showing the washer, the cards and the mounting ring in perspective.

The calling dial in which this card holder is used generally consists of a casing 10 provided for housing an impulse mechanism, not shown, a numbered disc 11, a finger wheel 12, which is secured on a shaft 13 of the impulse mechanism by a nut screw 14 and a finger stop 15.

On the upper end portion of shaft 13 there is mounted the finger wheel 12 and a resilient disc RD which are both secured on the shaft 13 by the nut screw 14. The disc RD, which is shown flexed in normal gripping position in Fig. 2, is formed with a circular depression 16 having a flat bearing surface for the nut screw 14, and a serrated rim 18. A conical mounting ring 19 has its larger end inwardly turned so that this edge serves as an abutment for the card assembly consisting of the transparent disc 21, the instruction card 22, the disc 23 and the peripherally resilient washer 25 which are placed in superposed relation in the mounting ring 19, and the whole held in position in this ring through the friction exerted in the mounting ring 19 by the washer 25. The disc 23 is provided with a rectangularly-shaped depression 26 in which a card 27 is removably placed. The card 27 carries at its lower end the subscriber's telephone number, as shown, which when this card is placed in position in the disc 23, registers with an opening 28 in the card 22.

The transparent disc 21, the instruction card 22 and the disc 23 are each provided with notches 29, 30 and 31 which engage a lug 32 in the mounting ring 19 for holding them against relative rotary movement with respect to each other, the mounting ring 19 being in turn provided with a notch 33 engaging a lug 34 carried by the resilient disc RD as shown in Fig. 1 for defining the position of the mounting ring 19 with respect to the general position of the finger wheel or supporting member 12.

The inner diameter of ring 19 is made slightly greater than the outside diameter of the rim 18 of resilient disc RD measured when the latter is flexed in its released position, as shown in Fig. 3, in order to permit the placing of the mounting ring 19 on the disc wherein the flexing of this disc in position in abutment against the supporting member 12 as shown in Fig. 2 is effective to grip the mounting ring 19 due to the spreading

out of the segmental portions formed by the serrations in the rim of the disc, the nut screw 14 at the center of the resilient disc and supporting member 12 serving to reenforce the information cards and the transparent disc against pressure applied on them at that point.

In the card holder of this construction the removal of the ring 19 is conveniently effected by simply exerting an upward pull on the ring 19 which causes the resilient disc RD to flex in position shown in Fig. 3, thus releasing the mounting ring 19 due to the inward movement of the segmental portions as above described. The removal of the mounting ring 19 from the resilient disc may also conveniently be effected, for example, by introducing a screwdriver between the supporting member 12 and the lug 34 of the disc RD to wedge it in an upward direction up to the point where it springs into a concave shape through the medium of its own tension, for disengaging the mounting ring. Similarly, the cards 22 and 27 may be replaced by other cards by removing the washer 25 from the ring 19 which gives access to these cards for replacement. In the mounting of washer 25 in the ring 19, the lug 32 of this ring is placed in the cutaway radial portion of washer 25 to prevent relative movement of this washer with respect to its adjacent disc 23.

What is claimed is:

1. A card holder comprising a resilient cup-shaped element including means for receiving a securing element, a portion surrounding said means and extending outwardly therefrom, a serrated rim projecting approximately at right angles from said portion, and a ring removably mounted on said rim, the surrounding portion of the element being so related to the securing means and ring that it may be snapped past dead

center about said means to move the serrated rim into or out of holding engagement with said ring.

2. A card holder comprising a resilient cup-shaped element including means for receiving a securing element, a portion surrounding said means and extending outwardly therefrom, a serrated rim projecting approximately at right angles from said portion, a ring removably mounted on said rim, the surrounding portion of the element being so related to the securing means and ring that it may be snapped past dead center about said means to move the serrated rim into or out of holding engagement with said ring, a plurality of cards and a transparent disc mounted in said ring, and a radially resilient washer for frictionally holding said card and said transparent disc in said ring.

3. A card holder comprising a resilient cup-shaped element including means for receiving a securing element, a portion surrounding said means and extending outwardly therefrom, a serrated rim projecting approximately at right angles from said portion, and a ring removably mounted on said rim, the surrounding portion of the element being so related to the securing means and ring that it may be snapped past dead center about said means to move the serrated rim into or out of holding engagement with said ring, a plurality of cards, a transparent disc mounted in said ring in superposed relation with said cards, a radially resilient washer for frictionally holding said cards and said transparent disc in adjusted position in said ring, and a supporting member for the securing means and said cup-shaped element.

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