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W. N. RUMBOLD

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CARD HOLDER

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FIG. 1

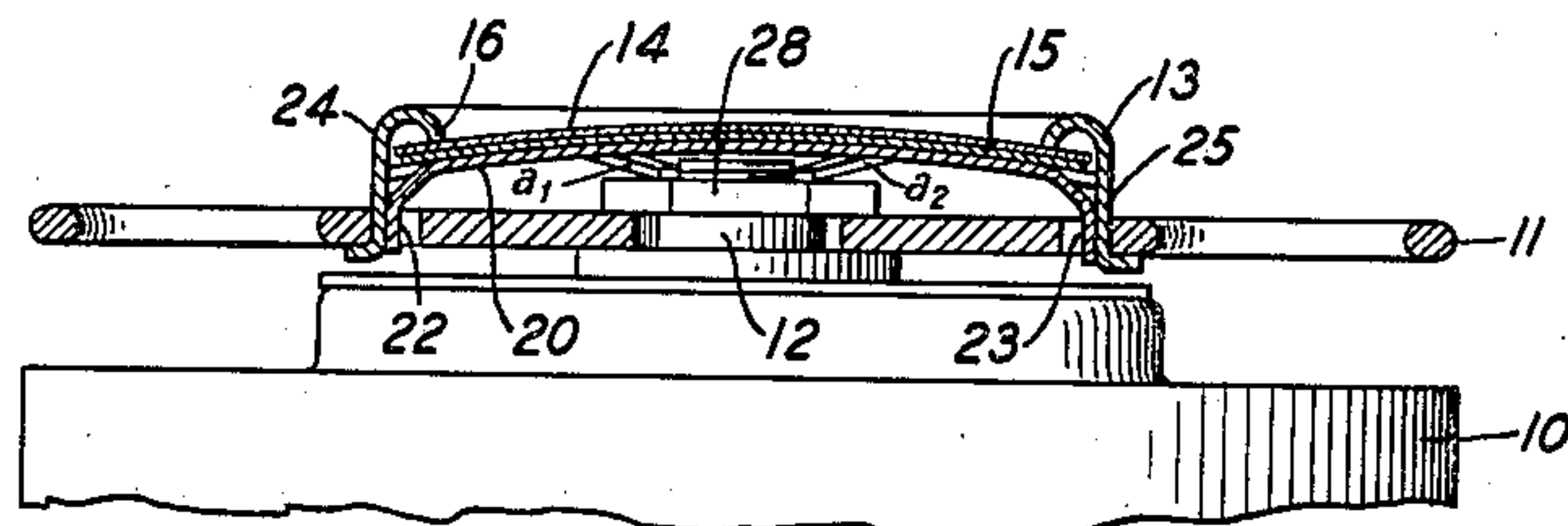
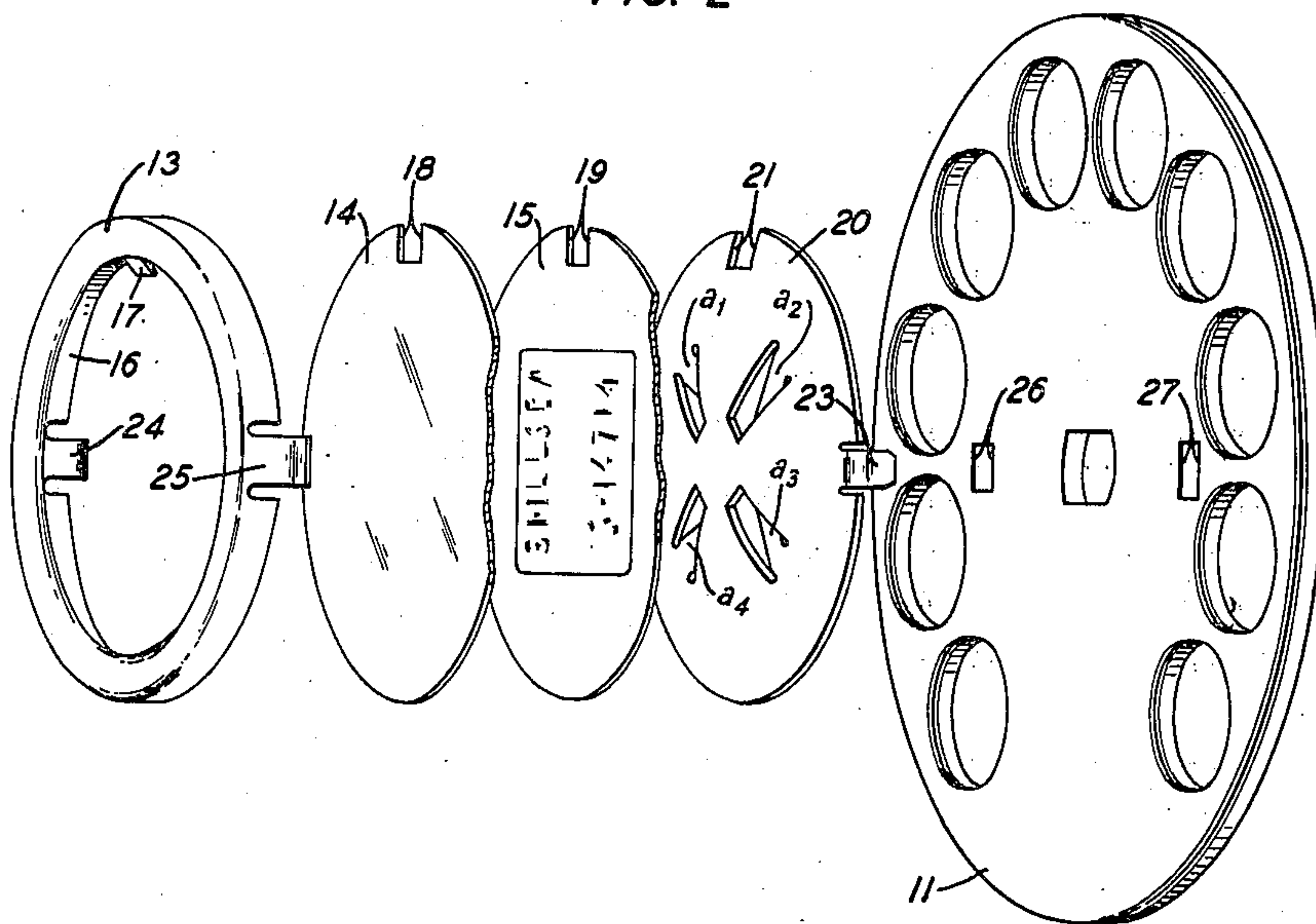


FIG. 2



INVENTOR
W. N. RUMBOLD
BY
William P. Bullard
ATTORNEY

UNITED STATES PATENT OFFICE

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CARD HOLDER

William Nightingale Rumbold, Santa Clara,
Calif., assignor to American Telephone and
Telegraph Company, a corporation of New York

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4 Claims. (Cl. 40—10.5)

This invention relates to card holders for telephone call transmitters of the type shown in Patent No. 1,575,353 of March 2, 1926 to A. C. Magrath.

5 In the card holder of said patent, a metallic disc and a spring ring are used for holding a transparent disc and an instruction card in a circular frame having two diametrically opposed hook-shaped arms engaging, through similarly dis-
10 posed holes, the underside of the finger wheel, the metallic disc being provided to serve as a backing for the card and the spring ring for holding the transparent disc, the instruction card and the
15 metallic disc in assembled relation in the frame.

The object of the invention is to simplify the construction and reduce the manufacturing cost of such card holders.

20 In accordance with this invention, the transparent disc and the instruction card which are placed in the frame are held in superposed assembled relation therein by a retaining element which combines the metallic disc and the spring
25 ring in a single unit. This element, which takes the form of a concavo convex-shaped disc, is formed with a plurality of radial arms, the free ends of which bear against the tightening nut of the transmitter finger wheel for resiliently holding the transparent disc and the instruction card in
30 place in the frame against a pressure applied on the outer disposed side of the transparent disc, the retaining element being provided with lugs which extend in abutting relation with the hook-shaped arms of the frame for reinforcing them
35 when this frame is disposed in assembled relation on the transmitter finger wheel.

Other features of the invention and advantages will appear from the following description and by the claims appended thereto, reference being had to the accompanying drawing in which:

40 Figure 1 is an assembly view shown in section; and

Fig. 2 is an exploded view.

45 The call transmitter to which this invention is particularly well adapted for use generally consists of a casing 10 having a centrally disposed shaft 12 operatively connected to an impulse mechanism (not shown), a finger wheel 11 which is securely mounted on the centrally disposed
50 shaft 12 and a card holder or frame 13 in which a transparent disc 14 and an instruction card 15 are mounted in superposed relation to each other, as shown in Fig. 1, with the transparent disc 14 abutting against the edge of the inwardly bent
55 portion 16 of the frame 13 while a lug 17, shown

in Fig. 2, extends from this edge to be engaged by the notches 18 and 19 in the transparent disc 14 and the instruction card 15 for preventing their angular movement relative to the frame 13.

6 The transparent disc 14 and the instruction card 15 are held in superposed relation in the frame 13 by a concavo convex metallic disc 20, the diameter of which is made slightly larger than the inside diameter of frame 13 so as to frictionally engage the latter for holding the transparent disc 14 and the instruction card 15 firmly in super-
10 posed assembled relation in the frame 13, a notch 21 in disc 20 being provided for engaging the lug 17 of the frame 13 for preventing the angular movement of this disc with respect to the frame. 15

The disc 20 is provided with two diametrically opposite arms 22 and 23 which extend substantially at right angles to the plane of this disc for frictionally engaging the hook-shaped arms 24 and 25 of frame 13 for reinforcing them when en-
20 gaged with the transmitter finger wheel 11, as shown in Fig. 1. The hook-shaped arm 25 of frame 13 is made of a greater width than its co-operating arm 24 and is adapted to engage the large opening 27 in the finger wheel 11, so as to
25 provide a reference point for assisting in readily locating the position of frame 13 and the instruction card 15 carried thereby relative to the normal unoperated position of the finger wheel 11.

30 The disc 20 is formed with four equally spaced radial arms a1, a2, a3, and a4, shown in Fig. 2, which are normally flexed for engaging the top disposed surface of tightening nut 28 when the card holder assembly thus formed is hooked to the
35 finger wheel 11, as shown in Fig. 1.

By virtue of the construction described, the use of disc 20, in which the supporting metallic disc and the spring ring are combined in a single unit, substantially reduces the manufacturing and maintenance cost of the card holder, while per-
40 mitting the removal of such a card holder from the finger wheel as a unit for replacement by another unit bearing a different telephone call designation.

What is claimed is:

45 1. A card holder for a call transmitter having a shaft, a finger wheel and a nut for securing the finger wheel to the shaft in combination with a frame having an inwardly turned peripheral edge, a transparent element and an instruction card
50 disposed in superposed relation in said frame, and a resilient concavo-convex securing element frictionally engaging said frame, said securing element having resilient portions engaging the securing nut for holding said transparent element and
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said instruction card in said frame against the inwardly turned edge thereof.

2. A card holder for a call transmitter having a shaft, a finger wheel for rotating the shaft, and a nut for securing the finger wheel to the shaft, in combination with a circular frame having a pair of diametrically opposite hook-shaped arms for engaging cooperating portions carried by the finger wheel, a transparent disc, an instruction card, and a yieldable concavo-convex securing element disposed in superposed relation in said frame, said element engaging said frame with a spring action and having means for engaging said hook-shaped arms for reinforcing them when said frame is disposed in engaged relation with its cooperating portions in said finger wheel and holding said transparent disc and said instruction card in said frame when said frame is removed from the finger wheel.

3. A card holder for a call transmitter having a shaft, a finger wheel for rotating the shaft, and a nut for securing the finger wheel to the shaft, in combination with a circular frame having a pair of hook-shaped arms for engaging means in said finger wheel, a transparent disc, an instruction card and a concavo-convex disc securing means for said disc and said card mounted in superposed relation to each other in said frame, said securing means having its peripheral

edge engaging the inner periphery of said frame frictionally for removably holding said transparent disc and said instruction card therein, spring arms carried by said securing means abutting against said hook-shaped arms for reinforcing them when engaged with said means in the finger wheel, and a plurality of radially disposed spring arms carried by said securing means engaging the upper face of said nut to cause said securing means to force said instruction card and said transparent disc against said frame.

4. A card holder for a finger wheel operated call transmitter comprising a ring-shaped frame having parallel arms and an inwardly extending edge forming a circular abutment, a transparent disc and an instruction card disposed in superposed relation in said frame against said abutment, a concavo-convex resilient metallic disc fitted in said frame for engaging the latter with a springing action for retaining said transparent disc and said instruction card in adjusted position therein and to form a backing for said card and said disc, said arms being hook-shaped for engaging cooperating locking elements formed with the finger wheel, and means carried by said concavo-convex metallic disc registering with said arms for reinforcing them when said frame is disposed in engaged relation with the finger wheel.

WILLIAM N. RUMBOLD.