## Nov. 18, 1924.

## F. A. KUNTZ

## MOUNTING FOR CALLING DIALS

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MOUNTING FOR CALLING DIALS.

Application filed October 19, 1922. Serial No. 595,537.

To all whom it may concern:

It will be noted that with the appara-

Be it known that I, FRANK A. KUNTZ, tus designed as shown in the accompanying a citizen of the United States, residing at drawings, neither the dial nor its mount-Woodhaven, in the county of Queens, State ing may be removed from a coin collector 5 of New York, have invented certain new housing by one working from the outside 60 and useful Improvements in Mountings for of the housing with intent to defraud the Calling Dials, of which the following is telephone company, nor may a wire or a full, clear, concise, and exact description. similar device be inserted in the apparatus This invention relates to mountings for to short circuit the dial terminals and reg-10 impulse senders in automatic telephones. ister the call free of charge. The object of the invention is to provide means whereby a calling dial may be readily mounted on a base at any angle thereto. ing. Automatic telephone instruments of the 15 so-called "wall set" type are often placed in telephone booths or in corners of rooms where the light only reaches them from the side. It is, of course, desirable to have the calling dial or impulse sender facing the 20 light so that the characters thereon may be lector housing. easily seen by the user. It is, however, difficult to readily operate the calling dial 7, and 8 on its lower half circle, is designed when placed on the side of a "wall set." to fit in a circular depression 9 in a fixed The dial then should be placed on the front member, such as a coin collector housing 10. 25 of the "wall set" and yet be so mounted This depression has projecting from its 80 that a maximum of light may be obtained lower half circle screws 16, 17, and 18 coron the characters. • the light.

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Fig. 1 is a front view of a coin collector housing ready for attachment to the mount-

Fig. 2 is a front view of the calling dial. Fig. 3 is a back view of the calling dial 70 showing the screw holes therein.

Fig. 4 is a back view of the mounting. Fig. 5 is a cross-sectional view of the dial and mounting attached to the coin col-

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A calling dial 5, having screw holes 6,

responding to screw holes 6, 7, and 8 of This invention provides means whereby the dial. When it is desired to bias the dial the dial on a poorly lighted wall set, coin in respect to the housing, however, the form-<sup>30</sup> collector, or the like, is so placed that the er is attached to a hollow angular mount- s5 characters receive a maximum of light con- ing 19, which has a projection 20 projectsistent with the easy operation of the dial. ing inwardly from its vertex or narrow This means consists in an angular mount- arcuate edge (the edge towards the light), ing which may be inserted between the dial and having a long vertical opening thereand its base so as to tip the former toward in; a projection 21 placed on its broad edge, 90 opposite projection 20, and having a long A feature of the invention is the arrange-vertical opening therein; a projection  $2\overline{2}$ ment of the screw holes in the angular placed on its lower edge (when mounting mounting. These screw holes are so ar- is attached with its vertex at the right), and ranged that a dial designed to be mounted having a round opening therein; and a pro- 95 directly upon the wall set housing may be jection 23 opposite projection 22 and havsecured to the mounting instead, which in ing a round opening therein. If the light is turn may be fastened to the wall set hous- coming from the right, screws are inserted ing without the provision of any additional in the opening in projection 22, and the ends fastening means in either the dial or the of openings in projections 21 and 20 near-100 housing. Unless the fastening means on the est thereto, and are screwed into holes 6, dial and the housing are arranged in sym- 7, and 8, respectively, in the dial. If, on the metrical positions about a horizontal axis, other hand, the light is coming from the a double set of screw holes may be pro- left, the mounting is inverted, and the dial vided on the angular mounting, one on each in order to retain its upright position, is 105 50side thereof, so that the latter may be se- attached to projection 23 and the ends of cured to the housing in a manner which will the projection 20 and 21 nearer to it. bias the dial either to the right or to the On the rear face of the mounting are left, and at the same time allow the dial to bosses 30, 31, 32, and 33 which correspond in be attached in an upright position. 55 position to projections 20, 21, 22, and 23, 110

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respectively, except that boss, 31, instead of may be attached to the fixed member, means being placed at the base of the broad edge within the angular mounting for cooperating ence 33, 31, 32, upon a cross piece 34; while ing the mounting to the fixed member, and 5 the edge extends back from this circumfer- means within the angular mounting cooperence so as to enable a screwdriver to be ating with said second-mentioned means for inserted between cross piece 34 and the edge attaching the impulse sender to the angular so as to more easily adjust a screw in the mounting. opening of the projection 21. Bosses 30 to -3. In combination, an apparatus housing, 10-33, inclusive, are designed to enable the an automatic calling dial, an angular mount-

of the mounting, is formed in circumfer- with said first-mentioned means for attach- 55 60

alignment of the mounting 19 to the cir- ing for attaching the dial to the housing so

ject. In bosses 32 and 33 are single screw holes in the dial, inwardly projecting lugs 15 holes, and in bosses 20 and 21 are upper and on the base of the mounting bearing screwlower screw holes so that, no matter whether the dial is faced to the right or to the left, there will be screw holes in the mounting corresponding to screws 16, 17, and 18. If <sup>(2)</sup> the light is from the right, screws 16, 17, and 18 fit into the screw hole on boss 32, and the nearer screw holes on bosses 31 and 30 respectively, whereas if the light is from the left, screws 16, 17, and 18 fit into screw  $^{25}$  hole on boss 33 and the screw holes on bosses 30 and 31, repectively, nearest to it. If the light is from the front, the dial may be fitted directly on the housing 10 with screws 16, 17, and 18 fitting directly into screw holes 6,  $^{\odot}$  7, and 8 respectively, on the dial 5.

cular depression 9 in the coin collector hous- as to bias the dial with respect thereto, ing 10, from which screws 16, 17, and 18 pro-screws in the housing, corresponding screw- 65 holes corresponding to the screws in the housing, and inwardly projecting lugs on the face of the mounting bearing openings cor-<sup>70</sup> responding to the screw holes in the dial. 4. In combination, a coin collector housing, an automatic calling dial, an angular mounting for attaching the dial to the housing so as to bias the dial with respect to the "? housing, screws in the housing. screw holes in the dial corresponding to said screws, two sets of screw holes in the base of the mounting, one of said sets corresponding to the screws in the housing when the dial is biased  $^{80}$ to the right and the other set corresponding thereto when the dial is biased to the left, It will be understood that the invention two sets of openings in the face of the is not limited to the particular device shown, mounting for the insertion of screws, one of these sets corresponding to the screw holes <sup>85</sup> in the dial when the dial is biased to the right and the other corresponding thereto when the dial is biased to the left, none of said screws being removable from the outside of the housing when the dial and the  $^{90}$ mounting are attached. <sup>40</sup> approximately perpendicular to the face, a 5. In combination a calling dial, an apparatus housing provided with means for mounting the dial thereon, and an angular mounting means for the dial adapted to <sup>95</sup> mount upon the dial mounting means of the 45 coin collector housing will be prevented from housing without change in said mounting means, said angular mounting being so constructed that once the assembly is completed 2. In a telephone substation set, a fixed neither the dial nor the mounting may be 100 <sup>59</sup> on its face and its base, an impulse sender, In witness whereof, I hereunto subscribe my name this 18th day of October, A. D., 1922. FRANK A. KUNTZ.

but includes any device having the general features covered in the appended claims. The invention claimed is:

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1. In a telephone substation set, a mounting having a slanting circular face which slopes toward a narrow arcuate edge, a broad arcuate edge opposite the narrow edge, and coin collector housing and a calling dial, said mounting mounted upon said housing and said dial affixed to the mounting in such a manner that a person working outside the tampering with any mechanism enclosed within the mounting on the housing.

member, an angular mounting closed except detached except from inside the housing. means in the fixed member and means in the impulse sender whereby the impulse sender

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