June 24, 1930. G. W. PACKER 1,765,441

CURRENT COLLECTOR

Filed July 29, 1929

Fig. 1

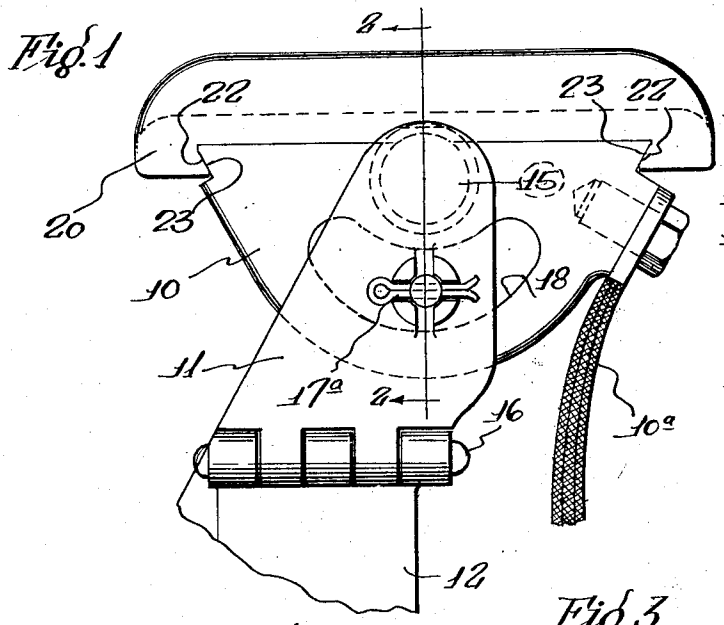


Fig. 2

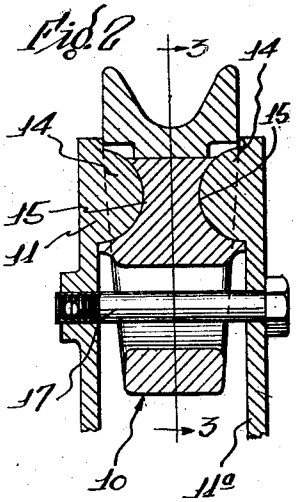


Fig. 3

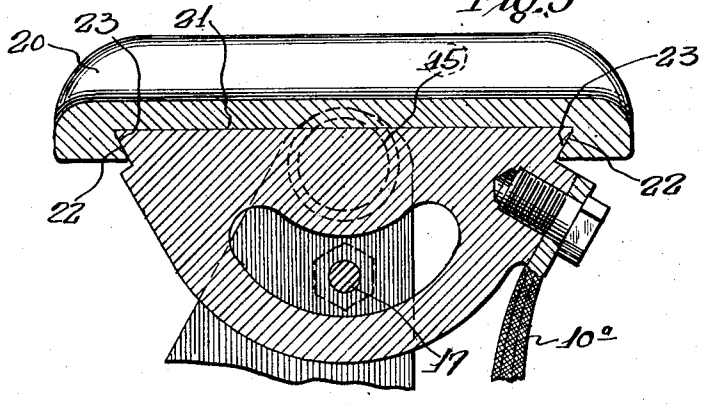
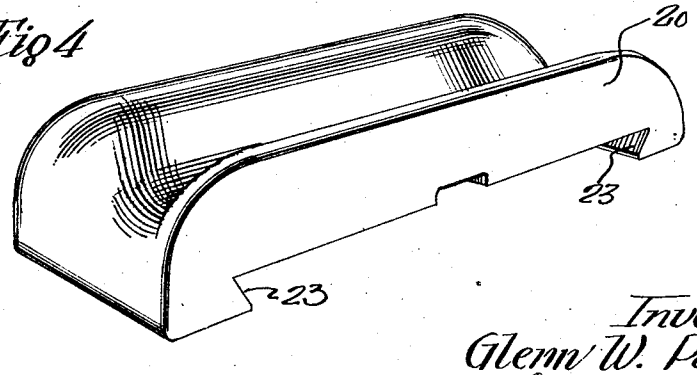


Fig. 4



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UNITED STATES PATENT OFFICE

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CURRENT COLLECTOR

Application filed July 29, 1929. Serial No. 382,030.

This invention relates to improvements in current collectors for trolley systems, more particularly to collectors of the shoe type, and has for its principal object a simple and improved construction thereof whereby the contacting element of the shoe is readily renewable as is usually desirable from time to time in devices of this character.

The invention may be best understood by reference to the accompanying drawings, wherein:

Figure 1 is a side view of a shoe and its mounting at the end of a trolley pole;

Figure 2 is a section taken on line 2—2 of Figure 1;

Figure 3 is a section taken on line 3—3 of Figure 1; and

Figure 4 is an enlarged perspective view of the renewable shoe itself.

In the drawings, my invention is illustrated in connection with a mounting including a base part 10, pivotally supported between a pair of upright side plates 11, 11ª, forming a yoke connected at the ends which are suitably mounted on a support 12. In the form shown the pivotal connection of the base 10 is provided by means of a pair of inwardly extending spherical projections 14, 14, on the inner faces of the side plates 11, 11ª, respectively, which fit in corresponding shaped sockets 15, 15, formed at the opposite sides of the base 10 adjacent its upper edge. One of the side plates 11 is pivoted at its lower edge to the support 12 by a pin 16 so as to permit the side plate to be swung downwardly to release the base 10 when desired. The two side plates are secured in engaging position on opposite sides of the base by suitable means such as a cross pin 17 which in the form shown extends through an arcuate recess 18 at the lower part of the base 10 to permit pivotal movement of said base in several angular positions relative to the trolley pole.

Referring now more particularly to the subject matter of the present invention I provide a shoe member 20 which is detachably mounted on the upper face of the base 10. As shown in the drawings, the upper face of said base 10 is finished with a substantially plane surface 21 and with its opposite end surfaces 22, 22, inclined inwardly and downwardly at an acute angle to said upper surface 21, as shown. The shoe 20 is provided with correspondingly shaped inwardly facing shoulders 23, 23, at the opposite ends, arranged so that the shoe may be fitted sidewise into sliding engagement over the base 10 and retained thereon in closely fitting engagement by the overhanging end portions of the latter.

In order to mount the shoe member 20 on the base 10 it is necessary that said base be dismounted from its pivotal connection with the side plates 11, 11ª, or at least, the pivoted side plate 11 must be swung out of engagement with the adjacent side of the base. When the two side plates are moved into their normal positions, as shown in Figure 2, the upper ends of the side plates 11, 11ª, engage opposite sides of the shoe 20 to lock it in proper position on the base.

With the construction above described, the shoe 20 is readily removable by merely taking out the cotter pin 17ª in pin 17, and then swinging the adjacent end plate 11ª outwardly so as to permit the old shoe 20 to be removed sidewise from the base 10 and replaced by another shoe of a similar construction. Whereupon the side plate 11 is again secured by means of the bolt 17 and cotter pin 17ª with the new shoe firmly secured on the base.

Although I have shown and described one form in which my invention may be embodied, it will be understood that the arrangement and construction of the various parts thereof may be altered or changed without departing from the spirit and scope of the invention. Furthermore, I do not wish to be construed as limiting myself to the precise form illustrated, excepting as it may be limited in the appended claims.

I claim as my invention:

1. In a trolley pole, a base, a separable yoke engaging opposite sides of said base and permitting pivotal movement therebetween, and a detachable shoe having overhanging end portions interlocking opposite ends of

said base and secured at opposite sides within said yoke.

2. In a trolley pole, a base, a separable yoke engaging opposite sides of said base and permitting pivotal movement therebetween, and a detachable shoe adapted to fit sideways on said base with said end portions interlocking opposite ends of said base and secured at opposite sides within said yoke.

Signed at Chicago, in the county of Cook and State of Illinois, this 27th day of July, A. D. 1929.

GLENN WASHINGTON PACKER.