

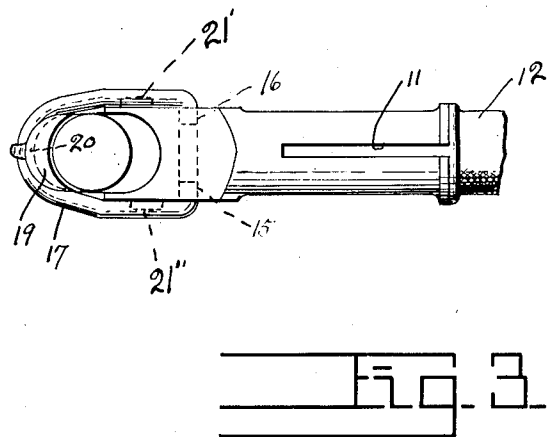
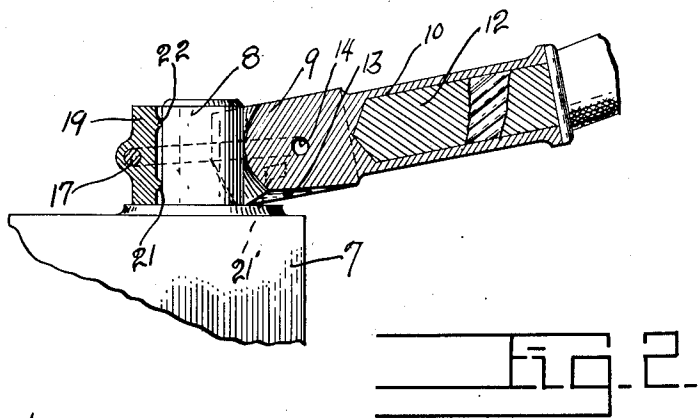
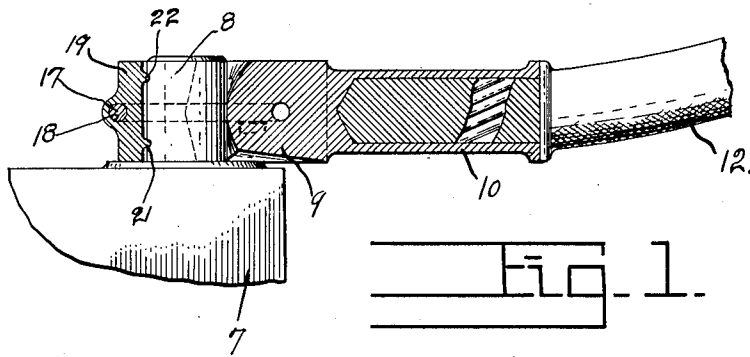
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J. W. ROY

STORAGE BATTERY POST CLAMP

Filed June 30, 1924



INVENTOR.
Joseph W. Roy
BY
Thomas Donnelly
ATTORNEY.

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UNITED STATES PATENT OFFICE.

JOSEPH W. ROY, OF DETROIT, MICHIGAN.

STORAGE-BATTERY-POST CLAMP.

Application filed June 30, 1924. Serial No. 723,280.

My invention relates to a new and useful improvement in a storage battery post clamp adapted for connecting the conducting wires to the terminals, or posts, of a storage battery, and has for its object the provision of attaching means of this nature which may be readily and easily assembled on the battery post and serve for an effective connection.

Another object of the invention is the provision of a battery post clamp of the class mentioned having resilient means for carrying one of the engaging jaws of the clamping device to compensate for variations in the diameters of the battery post to assure a rigid and tight connection at all times the device is mounted on the battery post.

Another object of the invention is the provision of a battery post clamp having a clamping jaw associated with an operating projection and a co-operating jaw provided with resilient attaching means adapted for mounting in the handle bearing jaw.

Another object of the invention is the provision of a clamp of this nature which will permit of quick and easy assembling of the various parts, and so constructed that the parts may be varied relatively to each other depending upon the size of battery post, with which the same may be used.

Other objects will appear hereinafter.

The invention consists in the combinations and arrangements of parts hereinafter described and claimed.

The invention will be best understood from a reference to the accompanying drawings which form a part of this specification and in which,

Fig. 1 is a longitudinal, vertical, sectional view of the invention in clamping engagement,

Fig. 2 is a longitudinal, vertical, sectional view of the invention mounted on a battery post, preliminary to the clamping engagement.

Fig. 3 is a top plan view of the invention.

In the present invention, the improvement resides particularly in the method of attaching one of the clamping jaws to the handle carrying jaw. The device is used with the battery 7, having the usual battery post 8, and comprises a handle bearing jaw 9, provided with a tubular projection or handle 10, split on one side, as at 11, for the reception of the terminal wires 12, which

may be soldered in the device if desired. The head 9 is provided with a beveled or cut-away undersurface 13, to permit the assembly of the device well down toward the base of the post. The face of the head 9 is formed with a pair of arcuate portions terminating in a substantially flat projection. The head 9 is provided with an opening 14 in which are positioned the inwardly turned ends 15 and 16 of a wire loop 17, which is projected through an eyelet 18 of a jaw 19, having a suitable lug formed thereon to give body to the eyelet and provided with a groove 20, in which the wire 17 may rest. The engaging face of the jaw 19 is formed arcuate and provided, adjacent its opposite ends with beads or ribs 21 and 22, which are adapted to engage the terminal post 8, which is generally made of lead or some similar soft material, so that the beads 21 and 22, being pressed in the post, serve to make a tight and rigid connection.

It is preferred to form the wire 17 from some spring metal, so as to give sufficient resiliency to the same to permit of slight variations in the diameters of terminal posts of standard make batteries. It is, of course, essential that this wire be of sufficient tensile strength and rigidity to resist any normal strain which may be placed on it, when the same is used for performing the functions intended.

With a battery post clamp of this construction, the jaws 19 and the head 9 may all be formed of a uniform size and weight for battery posts of different make batteries, so that these parts may be used with battery posts irrespective as to what the diameters may be. This is, of course, within certain limits depending upon the efficiency with which the arcuate engaging surface of the jaw 19 may engage the terminal post. However, in most batteries, the variations in the diameters of the terminal posts are slight, so that sufficient variation may be formed in the battery post clamps by moving slightly the location of the hole 14. In this way, the wire 17 is also of a standard make, thus facilitating the manufacture of the article, and resulting in economy besides adding to the utility of the device.

In mounting the clamp on the battery post, the head 9 is moved to the position shown in Fig. 2, relatively to the jaw 19. Upon moving the head 9 into the position shown in Fig. 1, the outwardly projecting

portion of the head is carried beyond center, as shown in Fig. 1, so that the device securely clamps the post and is locked into position. Projecting from opposite sides of the head 9 are abutments 21' and 21'' which are formed integral with the head 9 and which serve to engage the undersurface of the wire 17, when the device is moved to the position shown in Fig. 1. This prevents the movement of the head so as to carry its engaging portion too far beyond center.

While I have illustrated and described the preferred form of structure, I do not wish to limit myself to the precise form of structure shown, but desire to avail myself of such variations and modifications as come within the scope of the appended claims.

Having thus described my invention what I claim as new and desire to secure by Letters Patent is:

1. A battery post clamp comprising an engaging head; a co-operating jaw adapted for clamping, with said head, a battery post; and a wire member adapted for embracing said jaw and having the ends thereof angularly turned for entering an opening formed in said head.

2. A battery post clamp comprising an engaging head; a co-operating jaw; a lug formed on said jaw and provided with an opening formed therein, said jaw having a semi-circular groove on its outer surface; and a wire member adapted for projecting through the opening formed in said lug and

for lying in said groove, the ends of said wire member being angularly turned toward each other and adapted for engagement in an opening formed in said head for retaining said jaw in co-operative relation thereto.

3. A battery post clamp comprising an engaging head, having an opening formed therein; a co-operating jaw having ribs formed on its engaging face; a lug formed on the outer surface of said jaw and provided with an opening therein registering with a groove formed on said jaw; and a wire member adapted for projecting through said opening and lying in said groove, the ends of said wire member being angularly turned inwardly toward each other, and adapted for engagement in the opening of said head.

4. A battery post clamp comprising an engaging head; a co-operating jaw; a lug formed on said jaw and provided with an opening formed therein; a wire member projected through said opening in said lug, said jaw being loosely positioned on said wire member, the ends of said wire member being angularly turned toward each other and adapted for engagement in openings formed in said head for mounting said jaw pivotally in co-operative relation to said head.

In testimony whereof I have signed the foregoing specification.

JOSEPH W. ROY.