

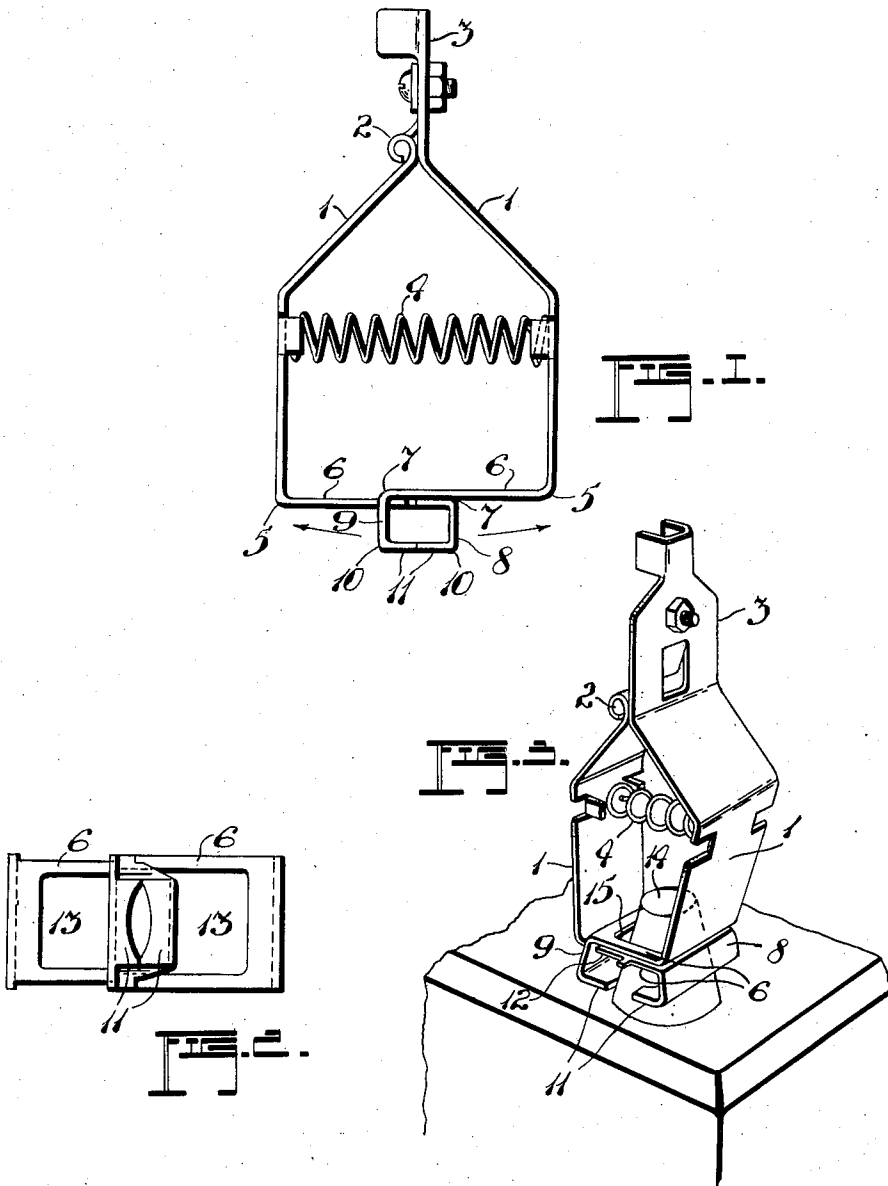
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TWIN CLAW BATTERY CLAMP

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UNITED STATES PATENT OFFICE

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TWIN CLAW BATTERY CLAMP

John Vizniowski, Northgate, Saskatchewan,
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In Canada January 26, 1942

1 Claim. (Cl. 173—273)

My invention relates to improvements in battery clamps, an object of the invention being to provide an inexpensive, simplified clamp wherein, when the endmost pair of gripping claws become corroded, and during the process of corrosion thereto, will continue to bind or grip a battery post by means of a secondary inner pair of claws as hereinafter to be described.

With the above more important object in view and such other minor objects as may appear as the specification proceeds, my invention consists essentially in the arrangement and construction of parts all as hereinafter more particularly described, reference being had to the accompanying drawing, in which:

Figure 1 is a side elevation of my battery clamp.

Figure 2 is an underside view of Figure 1.

Figure 3 is a perspective illustration of my device in situ upon a battery post.

In the drawing like characters of reference indicate corresponding parts in the different figures.

My invention comprises a pair of arms 1 hinged and pivotally connected by means of a hinge 2, the arms being of the configuration clearly illustrated. One of the arms extends upwardly in the form of a conventional connection 3 for the terminal of a wire and will therefore not be described in detail.

Extending between the arms 1 and spanning the same, is a compression coil spring 4, the arms 1 angling inwardly at the points 5 to provide inwardly directed, open centered portions 6.

The portions 6 angle downwardly at the points 7 thus providing the downwardly directed extensions 8 and 9, these extensions 8 and 9 angling inwardly again at the points 10 to provide inwardly directed post gripping portions 11.

It will be seen that one of the inwardly directed extensions 6 extends through a pair of spaced apertures 12 near the top of the downwardly directed extensions 9 so that the other of the inwardly directed portions 6 overlap the same and when the post gripping portions 11 are spread apart, it will be recognized that the open centres 13 of the portions 6 are in partial alignment so that a battery post 14 may extend therethrough.

The portions enumerated 6 to 13 inclusive comprise the claws of my device and from the foregoing description, it is to be understood that when a new clamp is placed over a battery post, the outermost claws 11 will first grip the post. However, when the same commence to corrode, it

is to be understood that they will move inwardly or bite into the post.

The edges 15 of the two openings 13 will then grip the post further up and thus the clamp will remain useful for a considerably longer period than the conventional clamp. If desired, the edges 15 may be so located with respect to the gripping edges of the portions 11, that, for a given taper on a battery post, all four gripping edges take hold of the battery post at the same time.

Thus a stronger grip on a battery post and a longer life are attributes of my clamp. It is well known that corrosion best develops around the root or base of battery posts and therefore the endmost claws 11 will be attacked first.

Since various modifications can be made in my invention as hereinabove described and many apparently widely different embodiments of same made within the scope of the claim without departing from such spirit and scope, it is intended that all matter contained in the accompanying specification shall be interpreted as illustrative only and not in a limiting sense and I desire only such limitations placed thereon as are specifically expressed in the accompanying claim.

What I claim as my invention is:

A battery clamp comprising in combination a pair of arms mutually connected at one end, said arms diverging from their points of mutual connection but angulating into the parallel medially of their length, a compression spring spanning the parallel portion of said arms, a pair of opposed double-angulated claws attached to the free ends of said arms, said claws each consisting of upper claw portions having open centres extending inwardly at right angles to the parallel portions of said arms in lapping relationship, downwardly directed parallel and spaced extensions at the inner ends of said upper claw portions, said downwardly directed portions being parallel with the parallel portions of said arms, the underlapping one of said claw portions passing through a transverse slot in one of said downwardly directed extensions adjacent the junction of the same and the overlapping claw portion, and a pair of parallel and inwardly directed post gripping portions at the ends of said extensions at right angles thereto and parallel with said claw portions.

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