March 10, 1931. H. E. WALKER 1,795,415

BATTERY POST CLAMP

Filed July 2, 1928

FIG. 1.

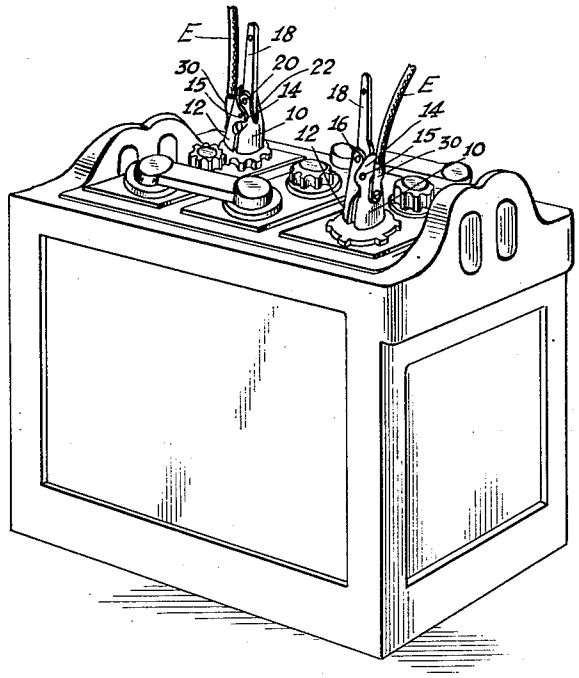
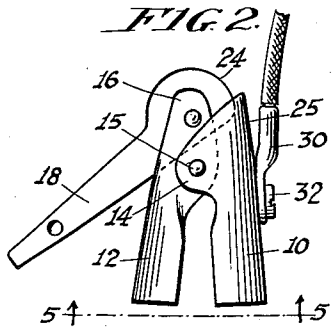


FIG. 2.



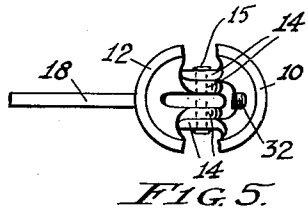


FIG. 5.

FIG. 3.

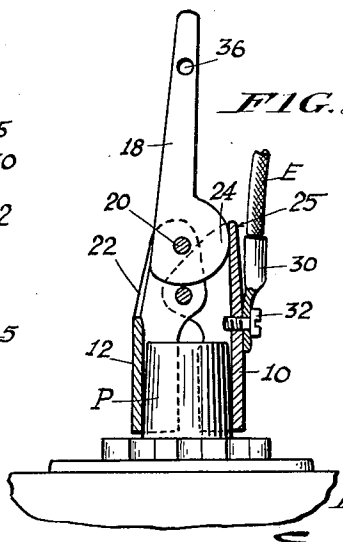
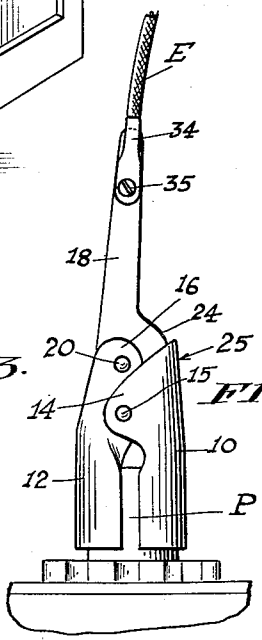


FIG. 4.



INVENTOR
HERBERT E. WALKER.
Edmund O. Stowers
ATTORNEY.

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UNITED STATES PATENT OFFICE

HERBERT E. WALKER, OF LOS ANGELES, CALIFORNIA

BATTERY-POST CLAMP

Application filed July 2, 1928. Serial No. 290,000.

This invention relates broadly to clamps, and more specifically is one adapted especially for circuit-closing engagement with the posts of electric storage batteries when the latter are being charged.

The object of the invention is to provide a simple, quick-acting, positively-engaging and otherwise thoroughly efficient clamp which may be used as a terminal on electric conduits and which may be easily attached when a battery is set in the charging line and as easily removed when charge is complete.

Briefly stated, the invention resides in a pair of clamping jaws movably connected for ready engagement about a battery post, one of said jaws being provided with a swinging cam to engage the other for clamping the jaws upon the post, and one of said jaws being provided with a means of connection with a wire or other electric conductor. The invention resides also in such other novel features as may be herein presented.

In the accompanying drawings wherein one embodiment of the invention is presented by way of illustration;

Fig. 1, is a perspective view showing the application of two of the present clamps to a battery.

Fig. 2, is a side elevation of one of the clamps in open position.

Fig. 3 is a vertical section showing a clamp in operative position on a battery post.

Fig. 4 is a side elevation showing a clamp in operative position, the conductor in this form being connected with the cam-operating arm.

Fig. 5 is a lower plan view of the open clamp as indicated by line 5—5 of Fig. 2.

The clamp disclosed comprises two jaws 10 and 12 having ears 14 pivoted together by means of a pivoting pin 15 passing through said ears. The jaw 12 also is provided with two upwardly extending ears 16 between which a cam lever 18 is pivoted through the medium of pin 20, said jaw 12 being slotted at 22 in order that said lever may be swung downward into disengaging position. The lever 18 is provided with an integral eccentrically positioned cam section 24 of gradually increasing curvature, whose operative edge is adapted to engage with the back wall 25 of the jaw 10, whereby to force the upper portions of the jaws apart while at the same time urging the lower portions into firm clamping relation with the walls of the battery post.

In the form of Figs. 2 and 3, the terminal 30 on the electric conductor —E— is secured to the jaw 10 by means of a screw 32 entering a threaded hole in said jaw. But the conductor —E— may also be connected with the cam lever 18 as seen in Fig. 4, where the terminal 34 is secured by means of a screw 35 entering a threaded hole shown in Fig. 3, at 36.

From the foregoing, it will be clear that the present clamp may be easily and quickly attached and detached with respect to the battery post, merely by swinging the cam lever to and from the operative position as indicated in Figs. 3 and 4, and in Fig. 2, respectively. By its inherent construction the cam portion 24 adapts the device to use on posts of varying sizes, the lever 18 being merely swung through a greater or smaller arc according to the size of the post. The electrical conductor —E— may also be relied upon to insure retention of the cam lever 18 in operative position, by attaching the conductor to said lever and leading the conductor off to that side which will produce a little pull or tension, for example, to the right of Fig. 4.

Thus it will be seen that I have provided a simple, cheap and efficient clamp for the purpose disclosed.

I claim:

A battery clamp comprising a pair of die stamped metal jaws of arcuate form in cross section adapted to engage a battery terminal post and being pivotally connected to each other, a cam member pivotally mounted on the upper end of one of said jaws and adapted to engage the upper end of the other jaw to clamp the lower ends of said jaws on said post, and means for detachably securing an electric conductor to one of said jaws.

In testimony whereof I affix my signature.

HERBERT E. WALKER.