

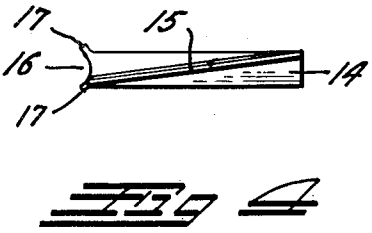
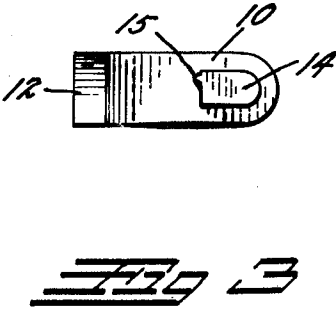
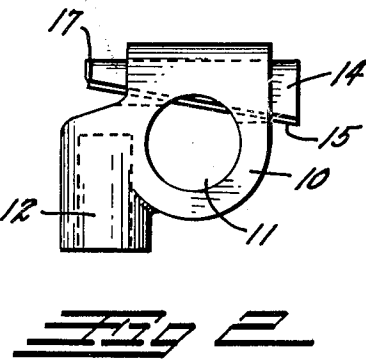
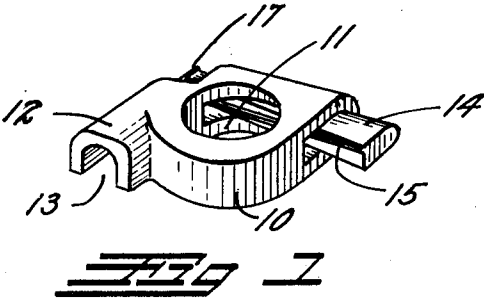
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BATTERY TERMINAL CLAMP

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BATTERY TERMINAL CLAMP

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This invention relates to a terminal for attaching the battery cables to a storage battery. Storage battery terminals are exceedingly troublesome owing to corrosive action of the battery acid. The usual terminal after being in place for some time will become so corroded that it is very difficult to remove and often the battery is damaged in the process. The nuts and bolts employed on the usual battery terminal become corroded away by the acid so that they will break off when any attempt is made to remove them.

The principal object of this invention is to provide an efficient battery terminal which will not employ threads, nuts, or bolts and which will automatically lift itself from the battery post as its fastening device is loosened, regardless of corrosion.

Another object of the invention is to so construct the device that it can be quickly attached or detached without the use of special tools or wrenches.

A further object of the invention is to provide a quick detachable terminal which will make a firm and positive electrical contact with the battery post.

A still further object of the invention is to so construct the device that it will have a minimum of parts and no loose or independent parts to become lost.

Other objects and advantages reside in the detail construction of the invention, which is designed for simplicity, economy, and efficiency. These will become more apparent from the following description.

In the following detailed description of the invention reference is had to the accompanying drawing which forms a part hereof. Like numerals refer to like parts in all views of the drawing and throughout the description.

In the drawing:

Fig. 1 is a perspective view of the improved battery terminal.

Fig. 2 is a plan view thereof.

Fig. 3 is an edge elevation thereof.

Fig. 4 is a detail view illustrating the inner face of the locking key.

The invention comprises a body portion 10 provided with a suitable post hole 11 for the reception of the battery post. The body 10

may be provided with any of the usual cable sockets such as the one illustrated at 12 which has an open channel 13 into which the extremity of the battery cable is soldered. A locking key 14 passes through the body 10 in a plane at right angles to the axis of the post hole 11. The locking key 14 is wedge shaped and is so positioned that as it is forced in place its angular side will move into the post hole 11. The latter side of the key 14 contains a diagonal tooth 15 extending the length of the key.

It can be readily seen that if the key is driven inwardly with a battery post in the post hole 11, the tooth 15 will engage the side of the battery post and owing to its diagonal or angular position it will act to pull the body 10 downwardly to a firm contact upon the post similar to the action of a screw thread. When it is desired to remove the terminal the key is driven outwardly. This causes the tooth 15 to reverse its action upon the battery post so as to lift the terminal and break it loose from any accumulated corrosion. If the tooth 15 were eliminated from the locking key it would be necessary to pry or lift the terminal from the post with a suitable tool after the locking key was released. With the tooth, however, the lifting is automatically accomplished simultaneously with the releasing.

The smaller end of the locking key 14 is preferably grooved as shown at 16 so as to provide two relatively thin edges 17. The edges 17 are turned outwardly after the key 14 is in position in the body 10 so as to prevent the key from falling from place so that the entire terminal forms a single unit.

While a specific form of the improvement has been described and illustrated herein, it is desired to be understood that the same may be varied, within the scope of the appended claims, without departing from the spirit of the invention.

Having thus described the invention, what is claimed and desired secured by Letters Patent is:—

1. In a battery terminal having a wedge shaped key, one edge of which is adapted to engage a battery post: a substantially

straight longitudinally-extending, diagonal tooth formed upon said latter edge so as to engage said battery post and move said key longitudinally of said post as said wedge
5 shaped key is forced across said post and means for preventing rotation of said key in said terminal.

2. A battery terminal comprising: a body portion having a vertical hole for the recep-
10 tion of a battery post, there being a horizontal passage formed through said body portion opening through one wall of said hole; a relatively flat key slidably mounted in said passage; an angularly positioned wedge face
15 on said key arranged to engage said battery post when the latter is in position in said hole; and a longitudinal tooth formed on said wedge face, said tooth being inclined so that, as said key is forced into said body portion,
20 it will engage said post and wedge said body portion downwardly thereon; and means for securing a cable extremity to said battery terminal.

In testimony whereof, I affix my signature.
25 SIDNEY GORMAN.

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