UNITED STATES PATENT OFFICE

WILLIAM H. TIMMONS, OF JACKSON, TENNESSEE

BATTERY-LIFTING DEVICE

Application filed October 29, 1928. Serial No. 315,834.

This invention relates to an improved battery lifting device and is particularly adapted for use in conjunction with storage batteries.

One object of the invention is to provide a battery lifting device which will not mar or injure a battery when lifting same.

Another object of the invention is to provide a battery lifting device which will require but a small amount of storage space.

A further object of the invention is to provide a battery lifting device which may be easily engaged with or disengaged from a battery.

Still further objects of the invention not specifically mentioned in the foregoing will be apparent during the courses of the following description.

In the drawings:

Figure 1 is a perspective view showing the device in engagement with the bus bars of a storage battery.

Figure 2 is a sectional view of the device on the line 2-2 of Figure 1 looking in the direction indicated by the arrows, and

Figure 3 is a side elevation of the device in closed position.

Referring more particularly to the drawings, the numeral 1 indicates a conventional storage battery provided with the usual bus bars 2.

In carrying the invention into effect, I employ rods 3 formed preferably of steel. The rods are nicked near their upper ends to provide stop shoulders 4 and overlying said shoulders are washers 5. The rods are bent near their opposite end portions to provide lateral inclined battery engaging arms 6, said arms being bent upwardly at a slight angle to the horizontal for preventing a battery from becoming disengaged therefrom. Formed in the upper sides of the arms 6 are notches 7 providing roughened surfaces for more effectively engaging the bus bars of a battery. Preferably, the outer end portions of the arms are cut away at their lower sides to provide flat upwardly inclined faces 8 so that the arms may be more readily engaged under the battery bus bars.

Carried by the rods 3 and overlying the washers 5 is a handle 9 formed of wood or other nonconducting material, said handle 9 preferably having rounded corners at each end portion thereof. The rods extend diametrically through the handle near its ends and fit snugly but rotatably therethrough.

Surrounding the upper ends of the rods 3 and countersunk in the handle are washers 10, the upper terminals of the rods being upset for securing the handle and rods in assembled relation.

In use, the arms 8 are, as shown in Figure 1, projected under the bus bars of the battery when the handle of the device may be grasped for lifting the battery. To disengage the device from the battery, it is only necessary to swing the handle in either one direction or the other, when the outer end portions of the arms 3 will engage the adjacent battery terminals to be limited thereby against swinging movement. Consequently, continued swinging movement will cause the handle to move into the same vertical plane with the arms and, in effect, serve to swing the arms towards each other into overlapping folded position as shown in Figure 3, when the device will, of course, be entirely freed from the battery.

Having thus described the invention, I claim:

A device of the character described including a handle, spaced rods swiveled through the end portions of the handle and bent to provide battery engaging arms, said rods being freely rotatable about their longitudinal axes, and means carried on the rods and coacting with the handle for limiting said rods against endwise movement, said arms being straight and slightly inclined upwardly toward their free ends.

In testimony whereof I affix my signature.

WILLIAM H. TIMMONS.