

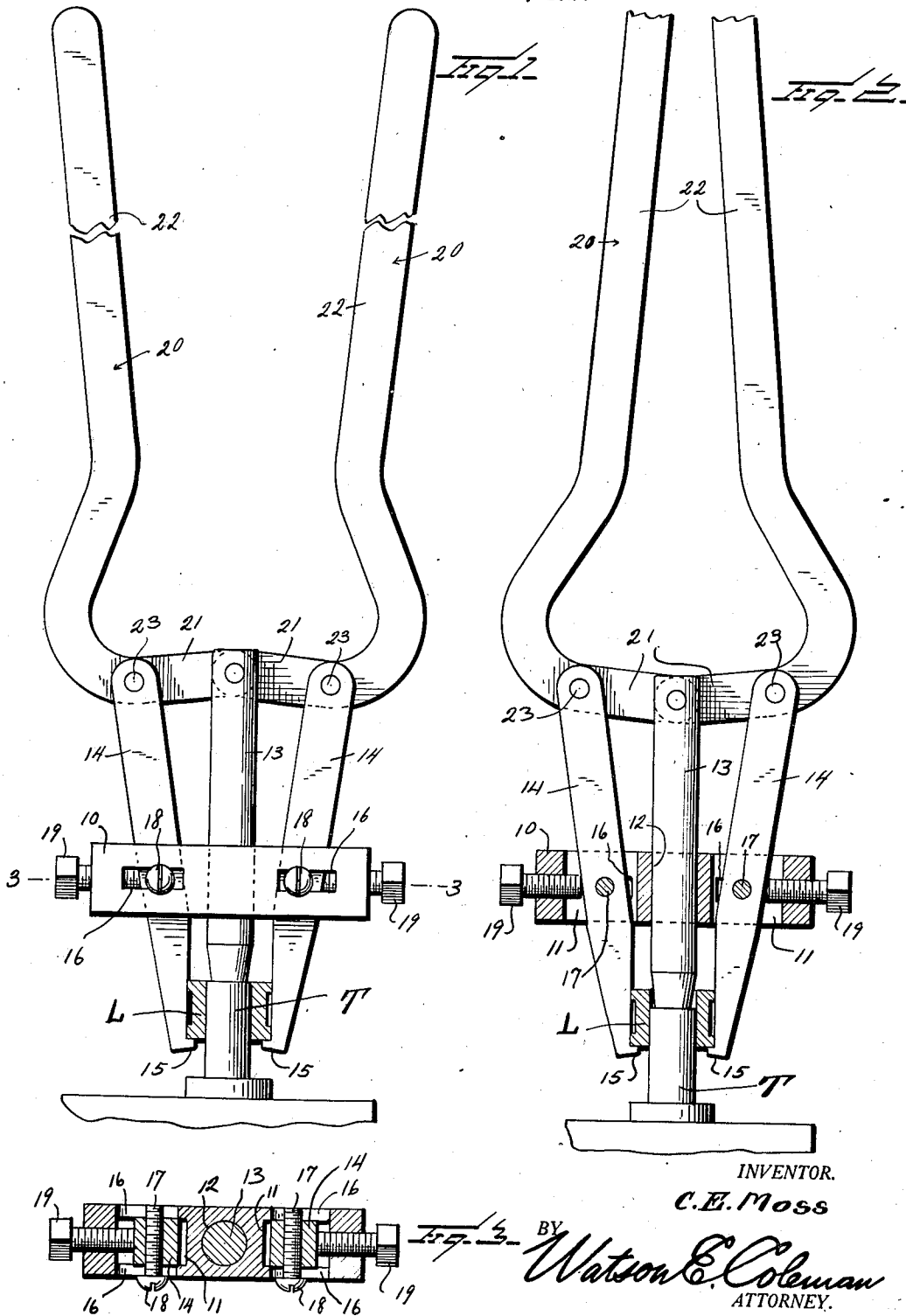
Jan. 6, 1925.

C. E. MOSS

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STORAGE BATTERY TOOL

Filed April 10, 1924



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UNITED STATES PATENT OFFICE.

CLARENCE E. MOSS, OF PONCA CITY, OKLAHOMA.

STORAGE-BATTERY TOOL.

Application filed April 10, 1924. Serial No. 705,661.

To all whom it may concern:

Be it known that I, CLARENCE E. MOSS, a citizen of the United States, residing at Ponca City, in the county of Kay and State of Oklahoma, have invented certain new and useful Improvements in Storage-Battery Tools, of which the following is a specification, reference being had to the accompanying drawings.

This invention relates to storage battery tools and more particularly to a device for removing the terminal connectors of storage batteries upon the terminal posts thereof. It is well known to those familiar with the art that the securing elements of the terminals of storage batteries become corroded in use and accordingly are often impossible to remove, thus rendering clamped lug terminals engaged with the soft metal terminal posts of the storage batteries very difficult to remove from these terminal posts.

An important object of the invention is to provide a simple, efficient and durable tool for rapidly removing these terminals without danger to the storage battery which often results when a corroded terminal is removed by the ordinary means. It will be more readily understood when it is explained that often in attempting to remove these terminals mechanics will employ a screw-driver or some similar implement to pry the terminal from the terminal post. The strain of the screw-driver or other implement being unevenly applied to the terminal, there is a tendency to bend the post and a consequent tendency to misplace the plates and crack the plate forming the cover of the storage battery cell.

These and other objects I attain by the construction shown in the accompanying drawings, wherein for the purpose of illustration is shown a preferred embodiment of my invention and wherein:—

Figure 1 is a side elevation of a tool constructed in accordance with my invention applied to remove a connector from a binding post;

Figure 2 is a similar view partially sectioned, the connector being shown as shifted upon the binding post;

Figure 3 is a section on the line 3—3 of Figure 1.

Referring now more particularly to the drawings, the numeral 10 indicates a bar having a pair of spaced slots 11 formed

therethrough adjacent the ends thereof and a bore 12 codirectional with the slots 11 formed therethrough at the center. Through the bore 12 is slidably directed a pressure bar 13, while through the slots 11 are directed a pair of jaws 14 having the lower ends thereof provided with inturned hooks 15. The slots 11 are elongated longitudinally of the bar so that they are of greater width than the jaws 14 and the jaws 14 are accordingly capable of a limited movement longitudinally of the bar. The opposite sides of the bar are provided with slots 16 communicating with the slots 11 and through these slots extend the shanks 17 of headed elements 18 forming pivots for the jaws 14. Through the ends of the bar are directed adjusting set screws 19 which abut the outer faces of the jaws within the slots 11 to limit the movement of the jaws at the pivots thereof toward the outer ends of the bar.

To the upper end of the pressure bar 13 are pivotally connected a pair of bell crank levers 20. The arms 21 of these levers which are pivoted to the pressure bar 13 at their ends extend horizontally and the other arms 22 thereof extend upwardly to form handles. To the arms 21 adjacent the outer ends thereof the upper ends of the jaws 14 are pivotally connected, as indicated at 23. In the operation of the device the pressure bar has its lower end engaged against the upper surface of the battery terminal T and then the screws 19 are adjusted to bring the hooks 15 of the jaws underneath the lower surface of the lead terminal L and preferably until the adjacent faces of these hooks contact the opposite sides of the battery lug. The handles 22 are then grasped and moved toward one another with the result that the pressure bar 13 is forced downwardly with a considerable force and the lead terminal L withdrawn from the battery terminal T.

It will be obvious that by the use of this device no strain whatever is placed upon the battery terminal which would tend to deform or displace the same and that by the use of this tool the lead terminals can be readily and rapidly removed from the battery. It will be obvious that the construction of the device as hereinbefore set forth is capable of a considerable range of change and modification without in any manner departing from the spirit of my invention and I accordingly do not limit myself to such

specific structure except as hereinafter claimed.

I claim:—

1. A terminal remover comprising a
5 mounting bar, a pressure bar slidably directed through the mounting bar, a pair of
levers directed through the mounting bar
at opposite sides of the pressure bar and
10 having the pivots thereof shiftable longitudinally of the mounting bar, a pair of bell
crank levers each having the end of one arm
pivoted to the upper end of the pressure
bar, the remaining arms of the bell crank
15 levers extending upwardly to form handles,
the upper ends of the first named levers being
pivoted to the first named arms of the
bell crank levers at points spaced from the
ends thereof.

2. A terminal remover comprising a
20 mounting bar, a pressure bar slidably directed through the mounting bar, a pair of

levers directed through the mounting bar at
opposite sides of the pressure bar and having
the pivots thereof shiftable longitudinally
25 of the mounting bar, a pair of bell
crank levers each having the end of one
arm pivoted to the upper end of the pressure
bar, the remaining arms of the bell crank
levers extending upwardly to form handles,
30 the upper ends of the first named levers
being pivoted to the first named arms of
the bell crank levers at points spaced from
the ends thereof, the lower ends of said
first named levers being provided with hooks
35 for engagement beneath a terminal connector
mounted upon a terminal the end of
which is engaged by the lower end of the
pressure bar.

In testimony whereof I hereunto affix my
signature.

CLARENCE E. MOSS.