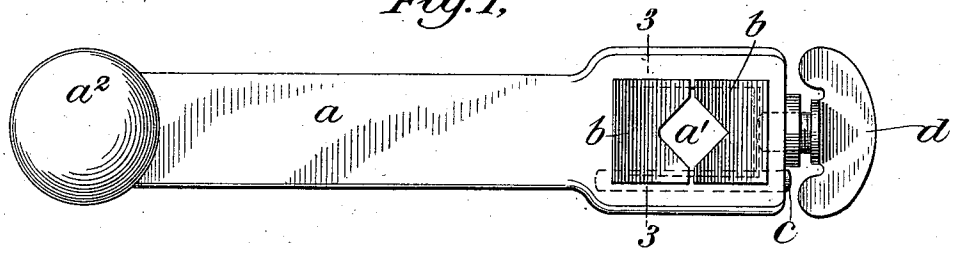
(No Model.)

# S. J. MEEKER.

## LEVER HANDLE.

No. 564,208. Patented July 21, 1896.

*Fig. 1.*



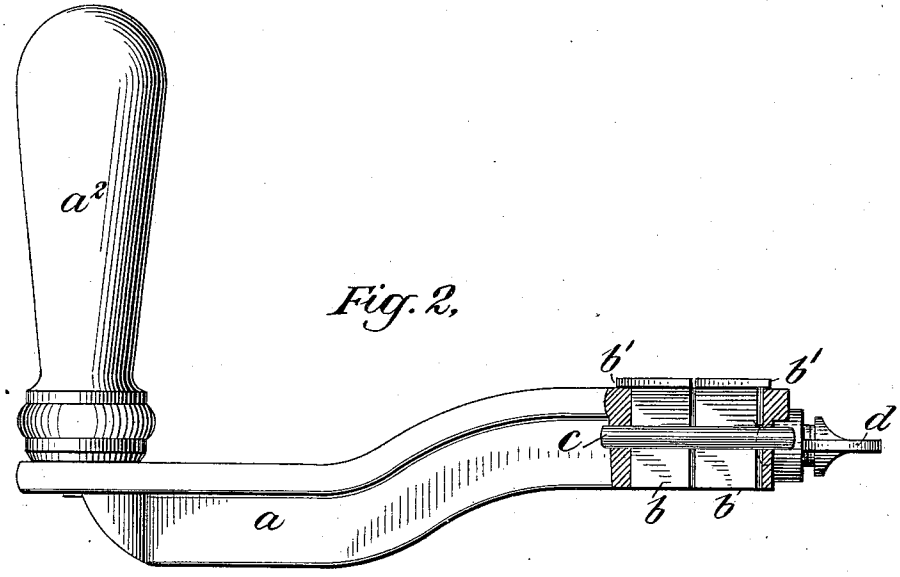
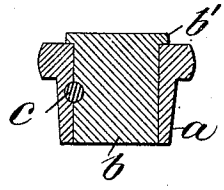




*Fig. 3.*




*Witnesses:-*

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# UNITED STATES PATENT OFFICE.

STEPHEN J. MEEKER, OF NEWARK, NEW JERSEY.

## LEVER-HANDLE.

SPECIFICATION forming part of Letters Patent No. 564,208, dated July 21, 1896.

Application filed March 30, 1895. Serial No. 543,841. (No model.)

*To all whom it may concern:*

Be it known that I, STEPHEN J. MEEKER, a citizen of the United States, and a resident of Newark, Essex county, and State of New Jersey, have invented a new and useful Lever-Handle for Electric-Car Motors, of which the following description, taken in connection with the drawings herewith accompanying, is a specification.

This invention relates to lever-handles of the class which is more particularly adapted for connection with electric-car motors as the means by which the motorman controls the electric current, and thereby the movement of the car; and the invention has for its object, first, to provide against wear of the projecting end of the motor-shaft with which the lever connects, in order to save the time and expense necessarily occasioned in repairing or replacing such shaft by reason of the several parts or mechanism with which it is connected, and, second, to provide a lever that may be readily connected with and adjusted to the motor, which shall also be of cheap and simple construction. This object I secure by means of the construction and arrangement of the several parts forming the device, as will hereinafter be set forth in detail, and pointed out in the claims.

Referring to the accompanying drawings, Figure 1 represents a plan view of a device embodying my invention. Fig. 2 represents a side or edge view of the same, with a part thereof broken away to more clearly show the arrangement of the parts; and Fig. 3 represents a sectional view through line 3 3 of Fig. 1.

To explain in detail, *a* represents the lever proper, provided at one end with an opening *a'* to receive the connecting part of a motor, and at its opposite end with a handle $a^2$, as the means by which it may be conveniently operated.

The receiving opening or socket *a'*, which may be of any desired form, in the present instance shown and according to my invention, is formed in the adjacent faces of two blocks *b b*, which are removably seated within an opening formed to receive the same in one end of the lever *a*. This latter opening is of such width as to receive the said blocks closely within the same, as more clearly shown in Fig. 3, but is of greater length than the blocks to allow movement of the same or one of the same therein, whereby the size of the opening *a'* may be varied or adjusted.

The blocks *b b* are removably supported and locked from vertical displacement within their seat in the lever *a* by means of a horizontally-arranged pin *c*, which engages with said blocks and with the lever *a* in a counterpart groove formed partly within each of said parts, as clearly shown. This construction, which also allows for the horizontal movement or adjustment of the block, forms a very cheap and simple means for removably uniting the several parts. The blocks *b b*, as shown, are also provided with laterally-projecting flanges *b' b'* at their upper edges, which overlap the upper surface of the lever, and serve, in addition to the pin *c*, to support and guide the blocks and also support the latter in proper position when first placed within their seat to receive the locking-pin *c*.

The adjustment of the opening *a'* is secured by moving only one of the blocks *b*, as will be understood, and this block is adapted to be adjusted and held in its adjusted position by means of an adjusting-screw *d*, which is supported in one end of the lever *a*, with its inner end in engagement with said block, as shown.

The blocks *b b*, according to my invention, are formed of a composition or metal of softer material than the motor-shaft with which they are adapted to engage, in order to receive all of such wear as may be occasioned by their contact with said shaft, for the purpose above referred to; and this feature in connection with the feature of their detachability from the lever *a*, whereby they may be readily replaced, after becoming worn, by new ones, forms a novel and essential part of my invention.

Having thus set forth my invention, what I claim as new, and desire to secure by Letters Patent of the United States, is—

1. A motor-handle provided with an opening or socket therein having one of its walls formed by a detachable and adjustable block which is seated within said handle, and a detachable pin supported in a position between and parallel with the adjacent surfaces of said block and handle and engaging with each of the same to lock the block from displacement

within its seat and allow movement in the latter, substantially as described and for the purpose set forth.

2. A motor-handle provided with an opening or socket therein having one of its walls formed by a detachable and adjustable block which is seated within said handle and provided with a projecting flange engaging with the latter, and a pin located between the said block and handle and engaging with each of the same to lock the block from displacement within its seat and allow movement in the latter, substantially as described and for the purpose set forth.

3. A motor-handle provided with an opening or socket therein having its walls formed by removable blocks which are of softer material than the shaft or stem of the motor with which it engages, one of said blocks being adjustable, and a pin located between said blocks and handle and engaging with each of the same to removably lock the blocks from displacement within their seat, substantially as described and for the purpose set forth.

STEPHEN J. MEEKER.

Witnesses:
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