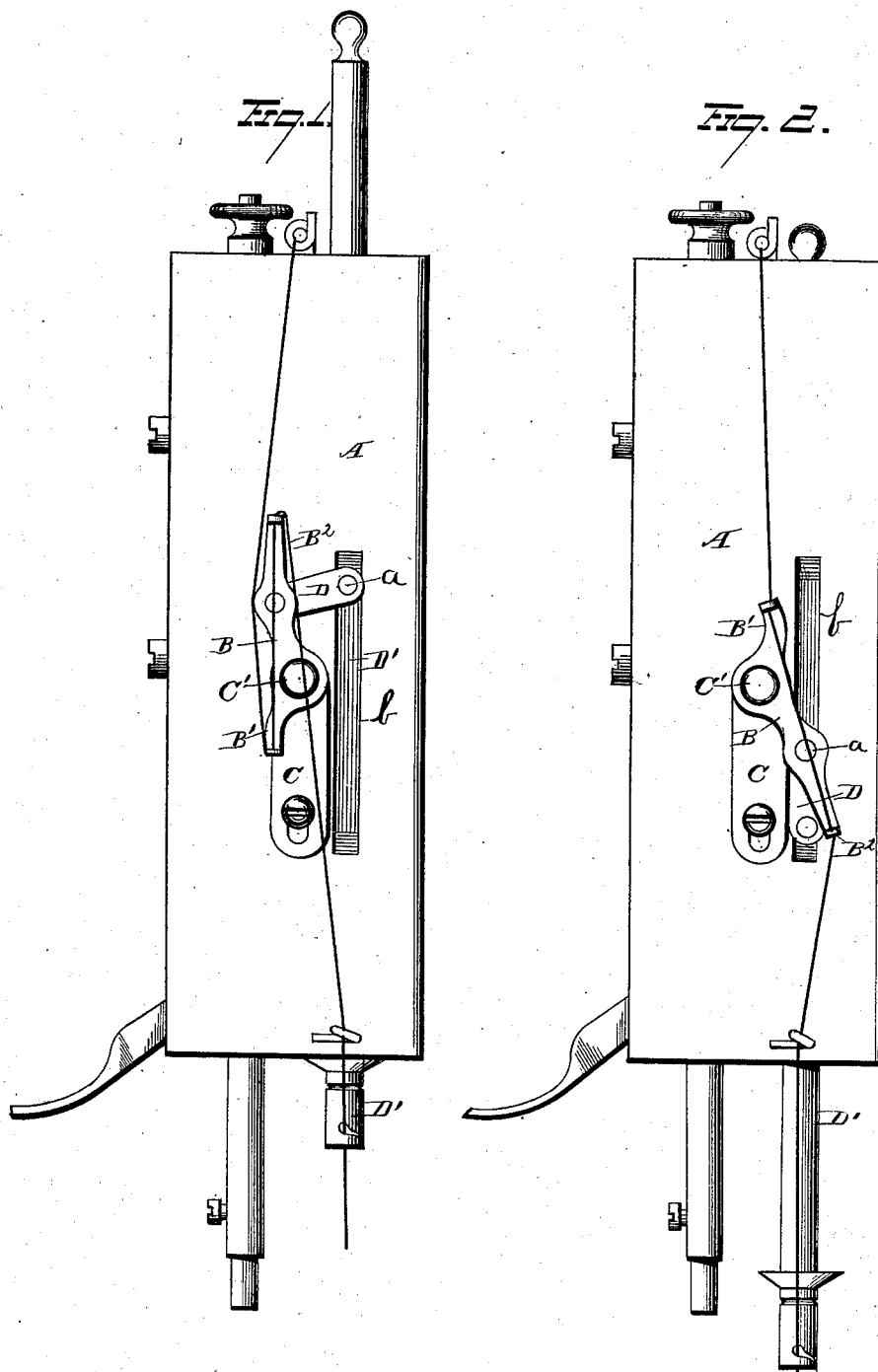


G. W. BAKER.
Take-Up Device for Sewing-Machines.
No. 216,994. Patented July 1, 1879.



WITNESSES
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UNITED STATES PATENT OFFICE.

GEORGE W. BAKER, OF CLEVELAND, OHIO.

IMPROVEMENT IN TAKE-UP DEVICES FOR SEWING-MACHINES.

Specification forming part of Letters Patent No. **216,994**, dated July 1, 1879; application filed March 13, 1879.

To all whom it may concern:

Be it known that I, GEORGE W. BAKER, of Cleveland, in the county of Cuyahoga and State of Ohio, have invented certain new and useful Improvements in Take-Up Devices for Sewing-Machines; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it pertains to make and use it, reference being had to the accompanying drawings, which form part of this specification.

My invention relates to a take-up device for sewing-machines; and it consists of the mechanism hereinafter described and claimed.

In the drawings, Figure 1 shows a device constructed according to my invention as it appears when the needle-bar is at its upward throw, and Fig. 2 represents the same when the needle-bar is at its lowest point.

In each figure is shown the thread passing through.

A is the face-plate of a sewing-machine, to which is attached the double-ended take-up lever B. This is in the shape substantially of a rocking lever, having a longer and a shorter arm, B¹, B².

The thread, as it comes from the spool, is first passed through an eye or loop in the shorter arm, B¹, from thence through a similar loop or eye in the longer arm, B², and from thence down to the needle.

The take-up lever B may be either fixedly or adjustably attached to the face-plate A, although I prefer an adjustable attachment, as shown in the drawings, which is effected by pivoting the take-up lever B upon a slotted plate, C, through the slot of which an attaching-screw passes for attaching the entire device to the face-plate A.

Between the pivot C', upon which the take-up lever B rocks, and the end of the longer arm, B², is attached the link D, which directly connects the take-up lever B with the needle-bar D'.

When thus connected it will be apparent that the vertical reciprocating movement of the needle-bar will, through the link-connec-

tion just specified, impart a rocking motion to the take-up lever B, substantially as indicated in the drawings.

The desired character and extent of rocking movement of the take-up may be regulated and determined by a proper adjustment of the take-up lever in its position upon the face-plate A.

It will be observed that one extremity of the link is pivoted to the long arm of the double-end lever, and that the other extremity is loosely connected with the pivot *a*, secured on the needle-bar, and working in the vertical slot *b* formed in the face-plate.

What I claim is—

1. The combination, with a face-plate provided with the vertical slot and a needle-bar, of the double-end lever, a device which secures the latter in pivotal position on the face-plate, and the link, one of whose extremities is pivoted to said lever, together with a pivot which connects the opposite end of the link to the needle-bar and works in said face-plate slot, substantially as set forth.

2. The combination, with a face-plate provided with the vertical slot and a needle-bar, of the double-end lever having a long and a short arm, a device which secures the lever in pivotal position on the face-plate, and a link, one of whose extremities is pivoted to said long arm of the lever, together with a pivot which connects the opposite extremity of the link to the needle-bar and works in said face-plate slot, substantially as set forth.

3. The combination of the needle-bar, the double-end lever, and the link, whose opposite extremities are pivoted respectively to the needle-bar and one arm of the lever, together with the face-plate, the plate to which the lever is directly pivoted, and the adjusting device which secures said lever-pivoted plate at different vertical points on the face-plate of the machine, substantially as set forth.

4. The combination of the needle-bar, the double-end lever having a long and a short arm, the link whose opposite extremities are

pivoted respectively to the needle-bar and the long arm of the lever, together with the face-plate, the plate to which the lever is directly pivoted, said plate being formed with a vertical slot, and the set-screw which works in the latter and vertically adjusts the take-up, substantially as set forth.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

GEORGE W. BAKER.

Witnesses:

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