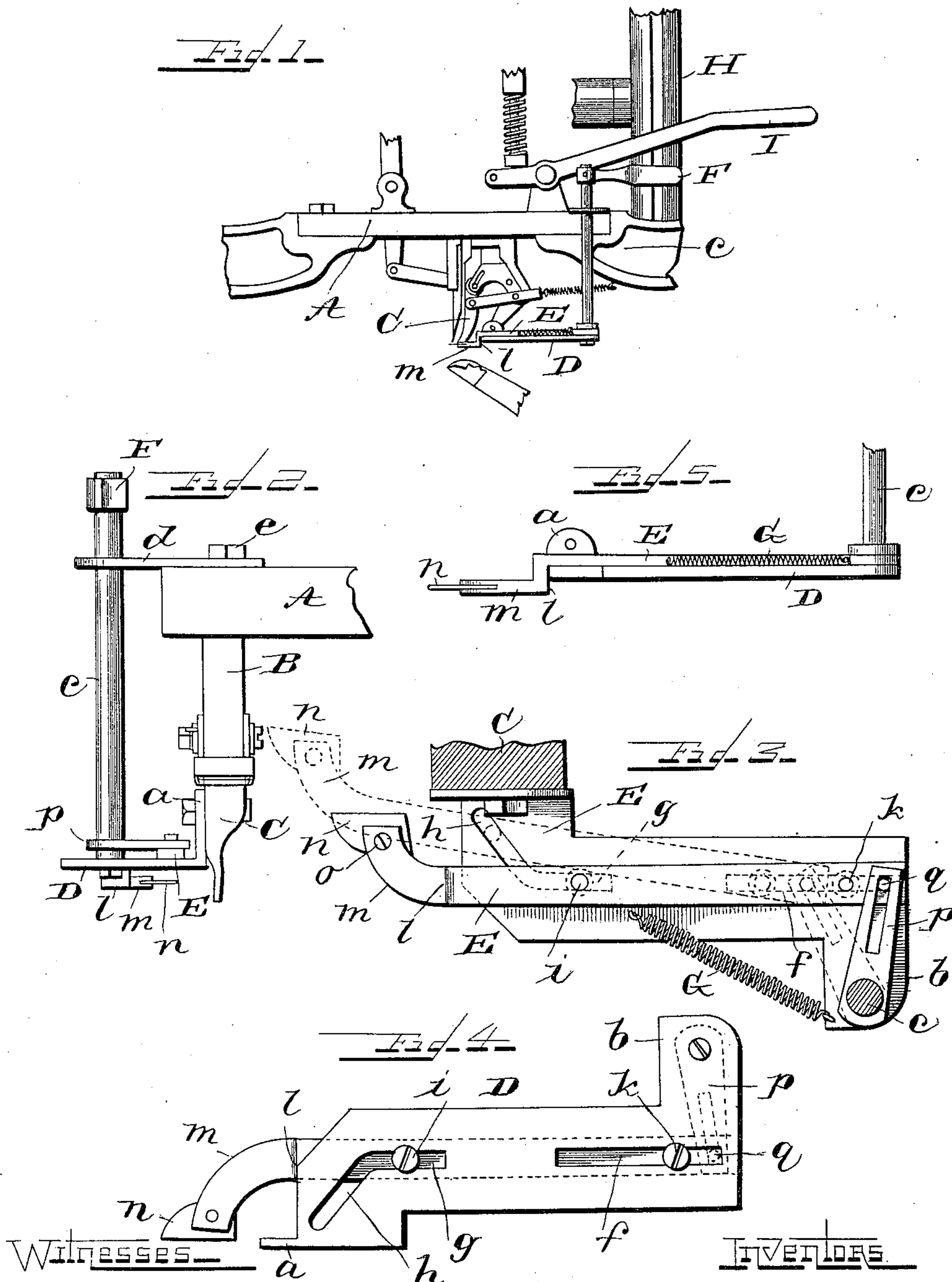


(No Model.)

V. HEISER & S. R. MOYER.
THREAD CUTTER FOR SEWING MACHINES.

No. 606,010.

Patented June 21, 1898.



WITNESSES—
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UNITED STATES PATENT OFFICE.

VALENTINE HEISER AND SOLOMON R. MOYER, OF ORWIGSBURG, PENNSYLVANIA, ASSIGNORS OF ONE-THIRD TO H. A. WELLER, OF SAME PLACE.

THREAD-CUTTER FOR SEWING-MACHINES.

SPECIFICATION forming part of Letters Patent No. 606,010, dated June 21, 1898.

Application filed August 17, 1897. Serial No. 648,533. (No model.)

To all whom it may concern:

Be it known that we, VALENTINE HEISER and SOLOMON R. MOYER, citizens of the United States, residing at Orwigsburg, in the county of Schuylkill and State of Pennsylvania, have invented certain new and useful Improvements in Thread-Cutters for Sewing-Machines; and we 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 appertains to make and use the same.

Our invention relates to sewing-machines, especially to that class of machines used for sewing boots and shoes, and has for its object a thread-cutter to be attached to the machine; and it consists in certain improvements in construction which will be fully disclosed in the following specification and claims.

In the accompanying drawings, which form part of this specification, Figure 1 represents a front elevation of part of a sewing-machine with my improved thread-cutter attached; Fig. 2, a side elevation of the same; Fig. 3, a top plan view of the thread-cutter on an enlarged scale; Fig. 4, a bottom plan view taken in the opposite direction, and Fig. 5 a front elevation on an enlarged scale.

Reference being had to the drawings and the letters thereon, A indicates part of a sewing-machine known as the "bed," B the presser-bar, and C the presser.

The thread-cutter is shown applied to a McKay sewing-machine; but is not limited thereto in its use, as it may be applied to other machines with but slight modifications in the means employed for securing it to a machine.

D indicates the supporting-plate of the thread-cutter, which is provided in this instance with a lug *a*, by which it is attached to the presser of the machine, and an arm *b*, in which the shaft *c* is supported, and which shaft is supported near its opposite end in a bar *d*, which at its opposite end is secured to the bed A by a bolt *e*, so that the shaft *c* can move on its axis to project the knife of the cutter to sever the thread.

In the rear end of the supporting-plate D is a straight slot *f*, and in the front end is a slot having a straight portion *g* and an inwardly-inclined portion *h*, and connected to

the plate by bolts *i k*, working in said slots, is a knife-supporting bar E, which is provided with an offset *l* and an extension *m*, to which extension the knife *n* is secured by a screw *o*, so that it may be readily detached for sharpening. The offset *l* throws the knife outside or below the plate D and in position to cut thread below the needle of the sewing-machine. The shaft *c* is provided at its inner end with an arm *p*, which engages a pin *q* on the inner end of the knife-bar E, and with a lever F at the outer end of the shaft, by means of which the shaft is rocked on its axis and the knife-bar projected forward in the slots *f* and *g* and the front end moved laterally in the inclined slot *h*, and the knife *n* has the same motion communicated thereto.

G indicates a spring one end of which is attached to the arm *c* of the plate D and the opposite end is attached to the knife-bar E to retract or return the knife to its normal position after the thread has been cut.

It will be observed that the lever F is in close proximity to the pulley H and the lever I of the sewing-machine, so that the operator when seizing either of them with his or her hand can readily with the thumb of the same hand press upon the lever F, project the knife *n*, and sever the thread of the machine.

The shaft *c* moves vertically in the bar *d* to accommodate the motion of the presser C, which is attached to the bar B.

Having thus fully described our invention, what we claim is—

1. A thread-cutter for sewing-machines, consisting of a plate having slots therein, one of which is inclined, a bar having a knife attached thereto, supported by said plate and movable in said slots, and a vertical and oscillatory shaft supported by said plate and connected to the knife-bar for projecting the knife.

2. A thread-cutter for sewing-machines, consisting of a plate having slots therein, one of which is inclined, a bar having a knife attached thereto, supported by said plate and movable in said slots, a vertical and oscillatory shaft supported by said plate and connected to the knife-bar, for projecting the knife, and a spring connected to the plate and the knife-bar.

3. A thread-cutter for sewing-machines, consisting of a plate having slots therein, one of which is inclined, a bar having a knife attached thereto, supported by said plate and
5 movable in said slots and a vertical and oscillatory shaft supported by said plate and connected to the knife-bar, in combination with the presser below the bed of the machine and to which the supporting-plate is connected.
- 10 4. A thread-cutter for sewing-machines, consisting of a bar having an offset at its front end, a knife attached to said bar, a plate provided with slots for directing the knife inward and laterally and in which the knife-

bar is movably secured to the plate, and a 15
lug, a vertical and oscillatory shaft supported by said plate and connected to the knife-bar and a bar for connecting the shaft to a sewing-machine, in combination with the presser to which said lug is attached. 20

In testimony whereof we affix our signatures in presence of two witnesses.

VALENTINE HEISER.
SOLOMON R. MOYER.

Witnesses:

THOS. B. ZULICK,
ELLWOOD K. STECKEL.