

No. 60,353.

Patented Dec. 11, 1866.

A diagram of a beam balance. A horizontal beam is supported by a central pivot point. On the left side of the beam, there is a label 'A' above the beam and 'B' below it. On the right side, there is a label 'D' above the beam and 'K' below it. A label 'C' is positioned below the beam near the pivot, and a label 'G' is positioned below the beam further to the right. The beam has a hook at its right end.

M. B. Foote

Per Murray

Stammers

*Witnesses.*

Gas. A. Service.

J. W. Livingston.

# United States Patent Office.

## IMPROVEMENT IN NEEDLE-THREADER FOR SEWING MACHINES.

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*Letters Patent No. 60,353, dated December 11, 1866.*

The Schedule referred to in these Letters Patent and making part of the same.

### TO ALL WHOM IT MAY CONCERN:

Be it known that I, M. B. FOOTE, of Northampton, Hampshire county, State of Massachusetts, have invented a new and Improved Implement for Threading Sewing-Machine Needles; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawing, forming part of this specification.

The present invention relates to a novel and extremely useful implement, to be used for the threading of sewing-machine needles, whereby the needles can be threaded with the utmost ease and rapidity, as will be obvious from the following detail description thereof, reference being had to the accompanying plate of drawings, in which—

Figure 1 is a view of the implement, showing it applied to the needle of a sewing machine.

Figure 2, a horizontal section taken in the plane of the line *x x*, fig. 1; and

Figure 3, a similar section to fig. 2, but taken in the plane of the line *y y*, fig. 1.

Similar letters of reference indicate like parts.

A, in the drawings, represents the frame of the implement, consisting of a handle, B, with two parallel arms, C C, on the same side of each of which is secured a bent spring, D, by means of which the frame is placed and clasped upon a needle, as plainly shown in fig. 1. At the outer end of the lower arm, C; and upon its under side is an eye, E, having its lower edge slotted at F, through which eye, after having properly adjusted it so as to correspond with the eye of the needle, the thread is passed and into and through the eye of the needle, when, withdrawing the frame from the needle, the escape of the thread from the eye of the frame is allowed through its slot or slit at F, the frame eye, E, being made conical in shape, as plainly shown in fig. 3, so that the thread may be easily and readily, and with but the slightest care, if any, passed through it to the eye of the needle. G, a gauge, consisting of a slotted bar, H, with a right-angular arm, I, at one end, which gauge, by means of a set-screw, K, is secured to the upper arm of the frame, A, the purpose of which gauge is to enable the eye of the implement to be so adjusted with regard to the eye of the needle, by properly setting the gauge to the distance between the yoke-arm, in which the needle is secured, and the needle-eye, as plainly shown in fig. 1, that, no matter how often the needle is to be threaded, it is only necessary to simply slip the implement on the needle when its eye will exactly correspond with the eye of the needle, as is obvious without any further explanation.

I claim as new, and desire to secure by Letters Patent—

The frame A, with its handle B, springs D, and the arms C, to the lower one of which the slotted eye E is secured, in combination with the slotted, right-angular gauge G, all operating substantially as described, for the purpose specified.

M. B. FOOTE.

Witnesses:

DANIEL KINGSLEY,  
W. S. KINGSLEY.