

J. W. Field.

102795

*Sewing Mach^e Needle
Setter.*

PATENTED MAY 10 1870

fig. 1.

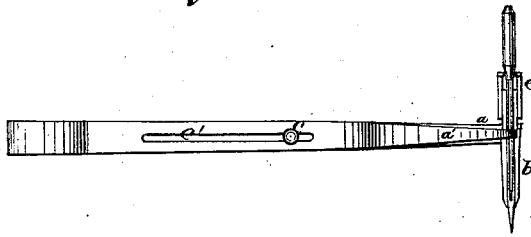
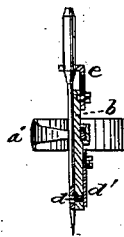


fig. 2.



fig. 3.



Witnesses:

*Victor Hagmann
Salon Remon*

Inventor:

*J. W. Field
per Munn & Co
Attorneys.*

United States Patent Office.

JAMES W. FIELD, OF MARYSVILLE, OHIO.

Letters Patent No. 102,795, dated May 10, 1870.

IMPROVEMENT IN NEEDLE-SETTERS FOR SEWING-MACHINES.

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, JAMES W. FIELD, of Marysville, in the county of Union and State of Ohio, have invented a new and improved Sewing-machine Needle-Setter; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings making a part of this specification, in which—

Figure 1 is a side elevation;

Figure 2, a plan view; and

Figure 3 is a transverse sectional elevation.

This invention has for its object to enable the operator of a sewing-machine to set a fresh needle in that position in the holder which will give the desired length of loop, without the trouble and delay of adjustment on his part.

In the drawings is figured a pair of pincers to the extremity of the arm *a*, of which is securely attached a vertical bar, *b*, the inner side of which may be channeled lengthwise for the reception of the needle or left plane, or provided with a rib to enter the groove of the needle. The other arm, *a'*, of the pincers is bowed outward, and its extremity bears directly upon the needle, clamping it against the plate *b*, when the slide *c*, which passes through slots *c'* made lengthwise of both arms of the pincers, is moved far enough toward the ends of the arms to bring the requisite pressure to bear upon them.

A conical tooth, *d*, projects through the channel of the bar *b*, near the lower extremity of the same, which

tooth is passed through the eye of the needle about to be set.

A gauge, *e*, also channeled for the reception of the needle, slides on the upper part of the bar *b*, being connected therewith by a set-screw. The function of the gauge is to take the depth to which the head of the needle enters the needle-holder, when the needle is in the proper position for making loops of the required size, and to preserve the record of such depth by means of its set-screw, so that, when a fresh needle has to be set, it may be placed at the desired depth at once without trial.

The tooth *d* is affixed to a spring-plate, *d'*, attached to the opposite side of the bar *b*. The tooth passes through a hole in the plate. The spring *d'* and the conical form of the tooth adapt it to needle-eyes of all sizes.

Having thus described my invention,

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

The bar *b*, provided with the gauge *e* and spring *d'*, the latter being furnished with the tooth *d*, in combination with the pincers *a a'*, provided with the slot *c'* and slide *c*, all constructed and arranged to operate in the manner described.

JAS. W. FIELD.

Witnesses:

SOLON C. KEMON,
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