

GEORGE M. PRATT.

Needle-Bar for Sewing-Machines.

No. 126,488.

Patented May 7, 1872.

fig. 1

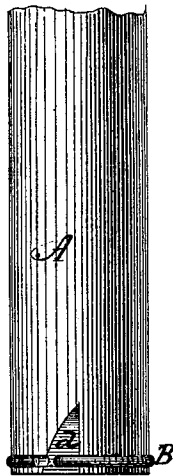
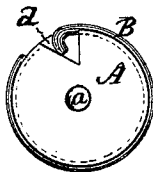


fig 2



Witnesses.

*J. W. Shumway*  
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# UNITED STATES PATENT OFFICE.

GEORGE M. PRATT, OF MIDDLETOWN, CONNECTICUT, ASSIGNOR TO THE  
FINKLE & LYON MANUFACTURING COMPANY, OF SAME PLACE.

## IMPROVEMENT IN NEEDLE-BARS FOR SEWING-MACHINES.

Specification forming part of Letters Patent No. 126,488, dated May 7, 1872.

*To all whom it may concern:*

Be it known that I, GEORGE M. PRATT, of Middletown, in the county of Middlesex and State of Connecticut, have invented a new Improvement in Needle-Bar for Sewing-Machine; and I do hereby declare the following, when taken in connection with the accompanying drawing and the letters of reference marked thereon, to be a full, clear, and exact description of the same, and which said drawing constitutes part of this specification, and represents, in—

Figure 1, a front view of the lower portion of the needle-bar, enlarged; and in Fig. 2 an end view of the same.

This invention relates to an improvement in that class of needle-bars which move in a vertical path. To guide the thread to the needle the lower angle of the bar is usually perforated, or an eye attached thereto, through which the thread passes to the needle. The position of this eye is such as to make it difficult to insert the thread—a difficulty which by my invention is entirely overcome; and it consists in a latch or spring arranged upon the lower end of the bar so as to yield for the insertion of the thread and serve as a guide when the thread is within the grasp of the said spring.

A is the needle-bar, carrying the needle in its lower end, at *a*, in the usual manner. At one point at the lower end of the said bar I form a recess, *d*, and arrange a spring, B, around the bar, one end fixed to the bar, the other (in hook form) entering the said notch, as seen in Fig. 2, the elasticity of the said spring yielding so that the thread may be drawn easily under the hooked end of the spring into the notch, and the said hooked end prevents its accidental removal.

While I prefer to arrange the spring in an annular groove around the bar, as shown, it may be applied in other positions, it only being required that the hooked end shall be in the said notch and act as a latch beneath which the thread may be carried.

I claim as my invention—

In combination with the needle-bar A, a spring, B, having its end formed and operating as a latch to receive and serve as a guide for the thread to the needle-bar, substantially as described.

GEO. M. PRATT.

Witnesses:

WM. R. SMITH,  
S. P. HULL.