F. G. ALTMANN & F. POMMER.

NEEDLE THREADING ATTACHMENT FOR SEWING MACHINES.

No. 258,870. Patented June 6, 1882.

Fig. 1.

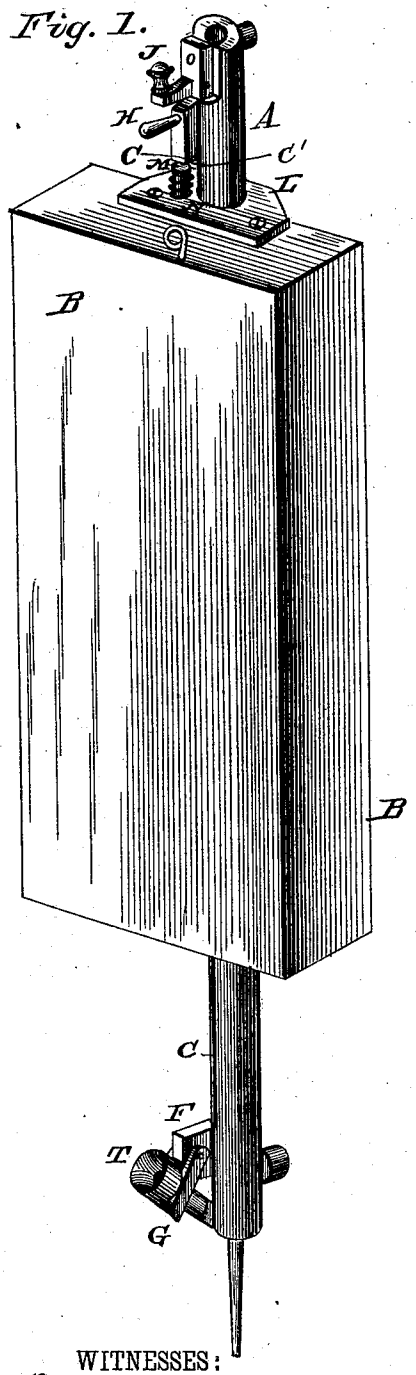
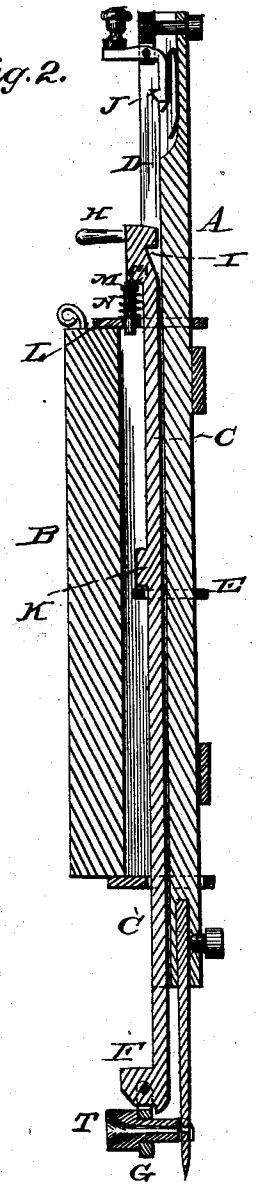


Fig. 2.



WITNESSES:

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UNITED STATES PATENT OFFICE.

FRANK G. ALTMANN AND FRED POMMER, OF EDINA, MISSOURI.

NEEDLE-THREADING ATTACHMENT FOR SEWING-MACHINES.

SPECIFICATION forming part of Letters Patent No. 258,870, dated June 6, 1882.

Application filed March 4, 1882. (No model.)

To all whom it may concern:

Be it known that we, FRANK G. ALTMANN and FRED POMMER, of Edina, in the county of Knox and State of Missouri, have invented certain new and useful Improvements in Needle-Threading Attachments for Sewing-Machines; and we do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification.

Figure 1 is a perspective view of our improved needle-threading attachment for sewing-machines, and Fig. 2 is a vertical sectional view of the same.

Similar letters of reference indicate corresponding parts in both figures.

This invention relates to needle-threading attachments for sewing-machines; and it consists in certain improvements in the construction of the same, which will be hereinafter fully described, and particularly pointed out in the claims.

In the drawings hereto annexed, A represents the needle-bar, which slides vertically in suitable bearings in the frame B of the machine. The needle-bar A is grooved vertically to receive a sliding rod, C, which is confined in the groove D of bar A by a ring or flange, E, formed or secured upon said bar, and also by the bearings in which the needle-bar moves. The rod C has at its lower end a bracket, F, to which is hinged a frame, G, in which the threading-tube T, which may be of the construction described in previous patents, No. 246,360 and No. 252,007, issued to ourselves, is mounted. The upper end of the rod C has at its upper end a shoulder, C′, provided with a handle, H, by which it may be conveniently manipulated. It is also provided with a notch, I, adapted to engage a spring-catch, J, mounted at the upper end of the needle-bar for the purpose of retaining the rod C in its normal or raised position. The rod C is provided with a stud, K, which is so disposed in relation to the ring or flange E of the needle-bar that when the said rod C is lowered and the stud K strikes flange or ring E the threading-tube T shall register with the eye of the needle.

Mounted in a socket, L, at the upper end of the frame-piece B, is a pin, M, supported upon a spring, N. The function of said pin, which we term the "anvil," will be presently described.

To operate our improved needle-threading device, the catch J is disengaged from the notch I at the upper end of rod C, which may then be lowered until its pin or stud K strikes the flange or ring E of the needle-bar. The threading-tube then registers with the eye of the needle, which may be easily threaded. The rod C is automatically returned to its original raised position, when the machine is started by the shoulder at the upper end of said rod striking the anvil M, which holds said rod while the needle-bar continues its downward course until the catch J again engages the notch I at the upper end of rod C.

By mounting the threading-tube, as described, in a hinged frame, its front end will easily and readily swing into contact with the needle without the employment of springs, and without mounting the carrying-rod C in diagonal guides, as has heretofore been done.

Having thus described our invention, we claim and desire to secure by Letters Patent of the United States—

1. In a sewing-machine, the combination, with the needle-bar, of the vertically-sliding rod and threading-tube mounted in a frame hinged to the lower end of said rod, as set forth.

2. The combination of the needle-bar A, having groove D and ring or flange E, with the sliding rod C, having pin or stud K, and hinged frame G, carrying the threading-tube T, as set forth.

3. The combination of the frame B, having spring-supported pin M, the needle-bar A, having groove D, ring E and catch J, and the sliding rod C, having handle H, notch I, pin K, and hinged frame G, carrying the threading-tube T, all arranged and operating substantially as and for the purpose set forth.

In testimony that we claim the foregoing as our own we have hereto affixed our signatures in presence of two witnesses.

FRANK G. ALTMANN.
FRED POMMER.

Witnesses:
FRANK COOK,
JOHN DOWNS.