

# Parham & Smith, Needle Holder.

No 38665.

Patented. Apr 16. 1869.

Fig 1.

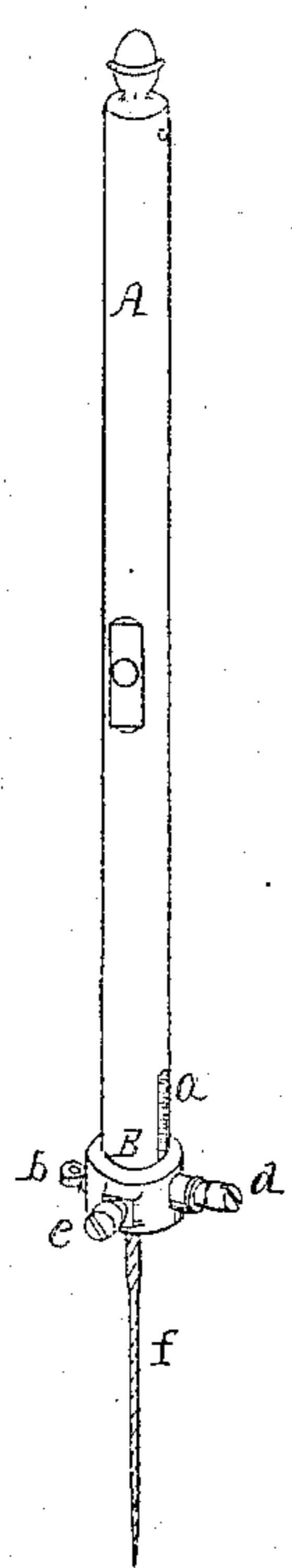


Fig 2.

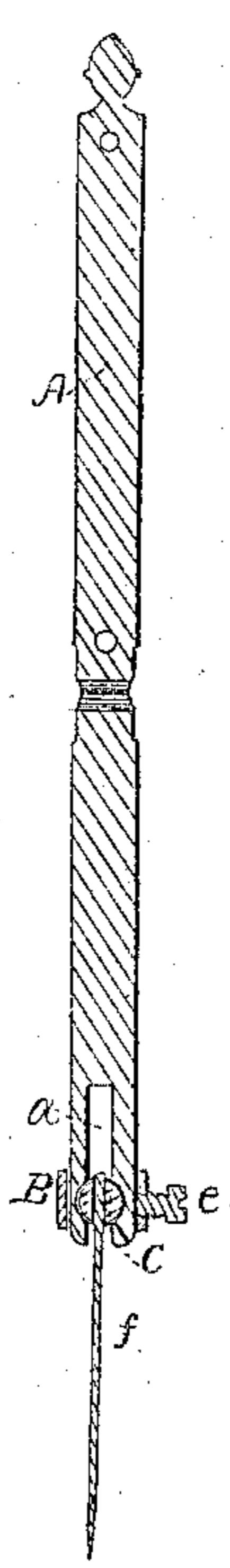


Fig 3.

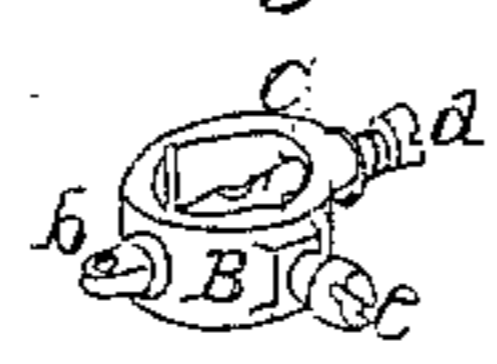
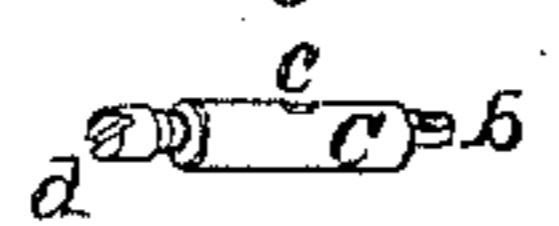


Fig 4.



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# United States Patent Office.

CHARLES PARHAM AND GEORGE A. SMITH, OF PHILADELPHIA,  
PENNSYLVANIA.

Letters Patent No. 88,665, dated April 6, 1869.

## IMPROVEMENT IN NEEDLE-HOLDER 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 we, CHARLES PARHAM and GEORGE A. SMITH, of the city of Philadelphia, and State of Pennsylvania, have invented a new and useful Improvement in Sewing-Machines, consisting of an adjustable needle-clamp and holder; and we do hereby declare the following to be a full and exact description of the same, reference being had to the annexed drawings, making a part of this specification, in which—

Figure 1 is a view of a straight round needle-bar or shaft with the adjustable clamp for needle.

Figure 2, a longitudinal sectional view of the same.

Figure 3, a detached view of the clamping-device complete.

Figure 4, a similar view of the needle-holder or piston.

Our invention has for its object the exact adjustment of the needle in all its relations to the other parts of the machine; and

It consists of a transverse hole in the end of the needle-bar, shaft, or lever for the insertion of a needle-holder or piston, the said bar, shaft, or lever being slotted upwards. A ring or band with a set-screw surrounds the whole for the purpose of firmly clamping the parts together.

To enable those skilled in the art to make and use our new clamp, we will describe it more fully.

Fig. 3 is the clamp and needle-holder complete, in which B is the clamping-band, having a suitable hole through its sides for the reception of the needle-holder C.

The band B has a set-screw, *e*, to secure the whole device to the needle-bar or shaft A.

C is the needle-holder, with a hole for the insertion of needle.

*d* is the set-screw to secure the needle.

*b* is an eyelet or hole for the guidance of the thread to needle *f*.

In figs. 1 and 2 *a* represents the slot of needle-shaft or bar for clamping the several devices together; also, for reception of upper end of needle.

In fig. 2, at C, is shown the larger hole for reception of needle-holder or piston.

In attaching the needle-holder to the end of a lever of a sewing-machine, or to the bar or shaft, a hole of the same gauge as needle-holder C, fig. 2, is drilled transversely through end of bar or shaft or lever. The shaft or lever is slotted upwards of the same, or about the same, gauge as shank of needle. Then the ring or band-clamp B is placed upon bar or shaft, as represented in figs. 1 and 2. The holes in sides of

clamp being adjusted to correspond with hole in bar or shaft, then the needle-holder or piston is inserted, as represented in figs. 1, 2, and 3. The needle being made fast by screw *d*, the whole is now firmly clamped together by screw *e*.

To adjust or to take out the needle, the loosening of its screw is only requisite, as in the ordinary mode. Having the needle adjusted perpendicularly, to adjust it laterally unloosen the screw *e* of clamp B, then move the needle-holder as desired, then tighten clamp. Having the whole securely attached, pass the thread down through eyelet at *b* to needle *f*.

It will be observed that if the clamp or band is loosed in the said combination, that each piece of the clamping-device performs other offices, namely, the needle-holder in its position prevents the band or ring from becoming detached from the shaft or bar, and by the insertion of the shank of the needle in needle-holder or piston, the said holder or piston will not fall out, and the end of needle passing upwards through holder or piston between slot, the sides of slot prevent the needle-holder or needle from swinging or turning around out of a perpendicular line.

We also desire it to be understood that we do not confine its application to a straight needle-shaft or bar, as used in the Singer, Howe, or Parham sewing-machine, but also to such sewing-machines that use a curved needle, as the Wheeler and Wilson; and that we do not confine ourselves to a ring-clamp for a round needle-shaft or bar; but it may be modified so as to conform to any-shaped needle-bar, shaft, or lever.

Having now fully described our invention,

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

1. The combination of the clamp or band B and needle-holder C, constructed, arranged, and operating as and for the purposes set forth.

2. The combination of clamp or band B, needle-holder C and needle-bar or shaft A, constructed and arranged as and for the purposes set forth.

3. The combination of the needle-bar, having a slot, *a*, and hole C, with the needle-holder and clamp B, constructed and arranged for the purposes set forth.

4. The combination of the eyelet *b*, needle-holder C, and clamp B, arranged as and for the purposes set forth.

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Witnesses:

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