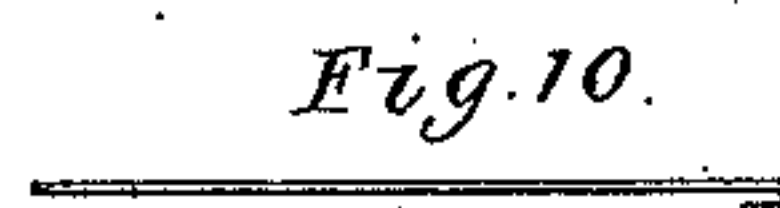
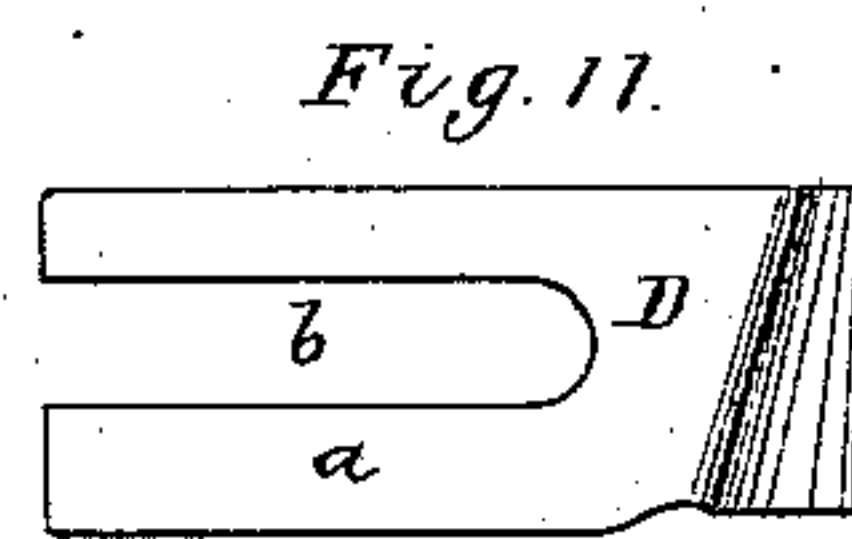
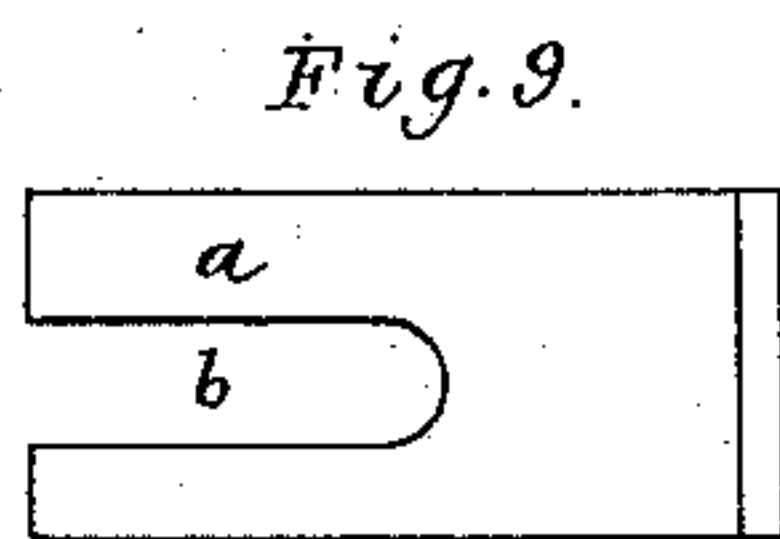
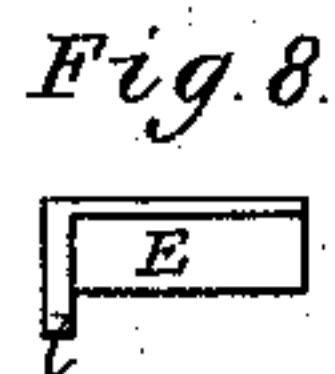
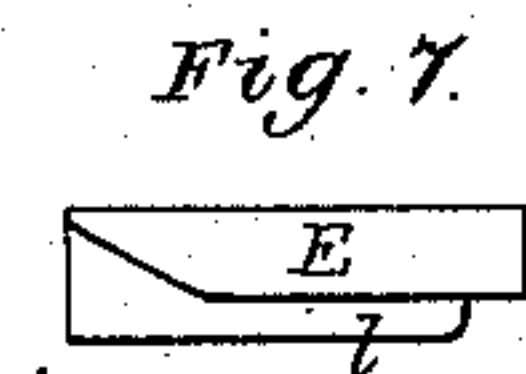
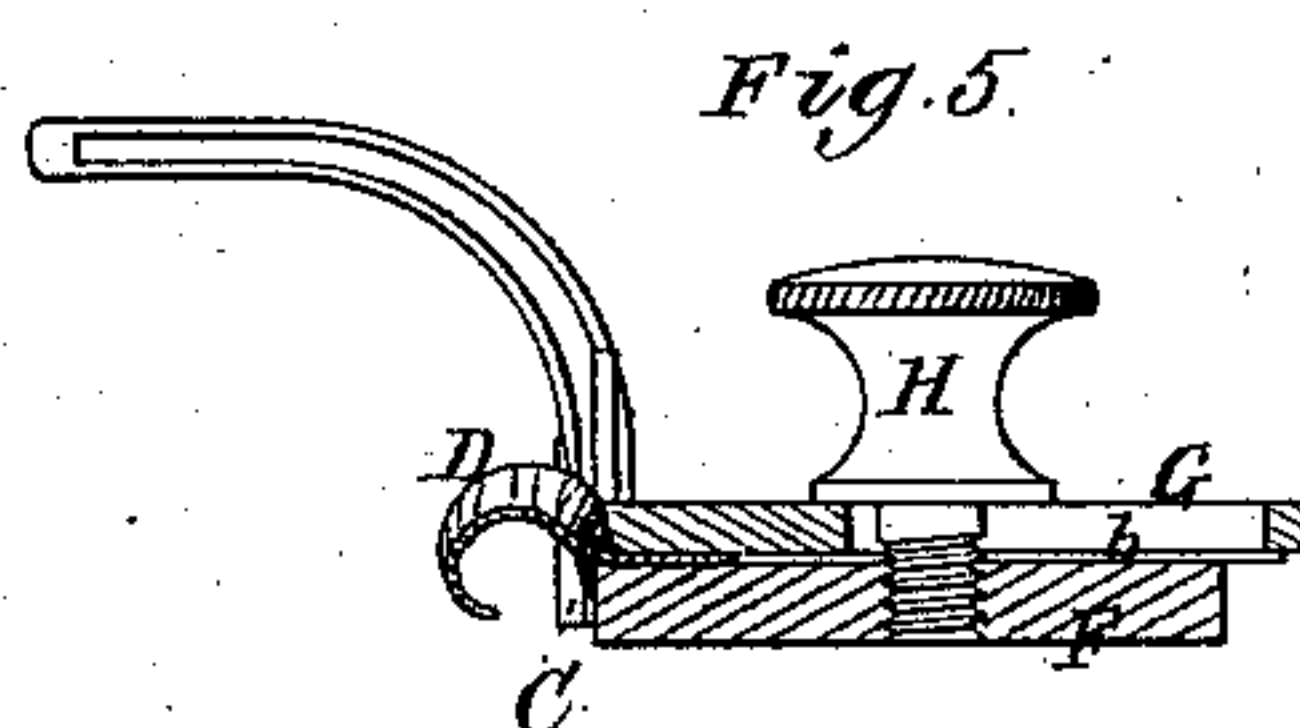
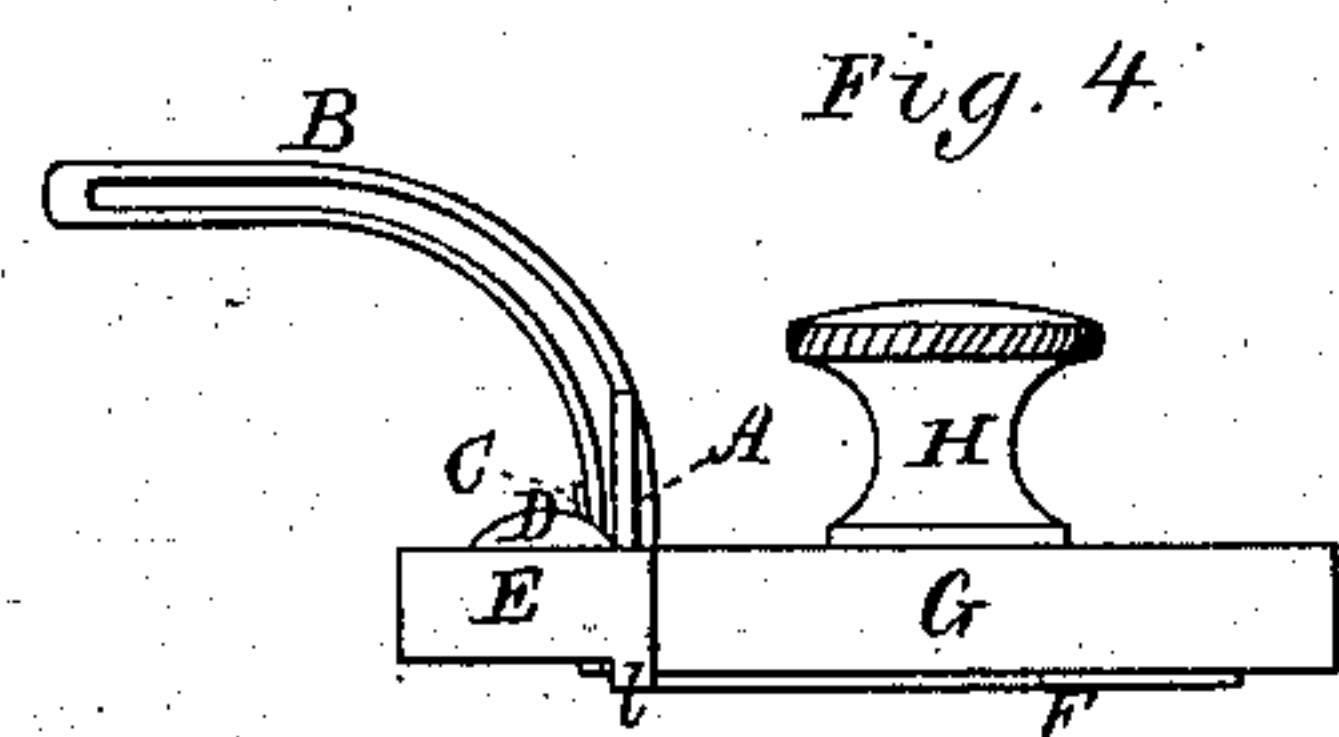
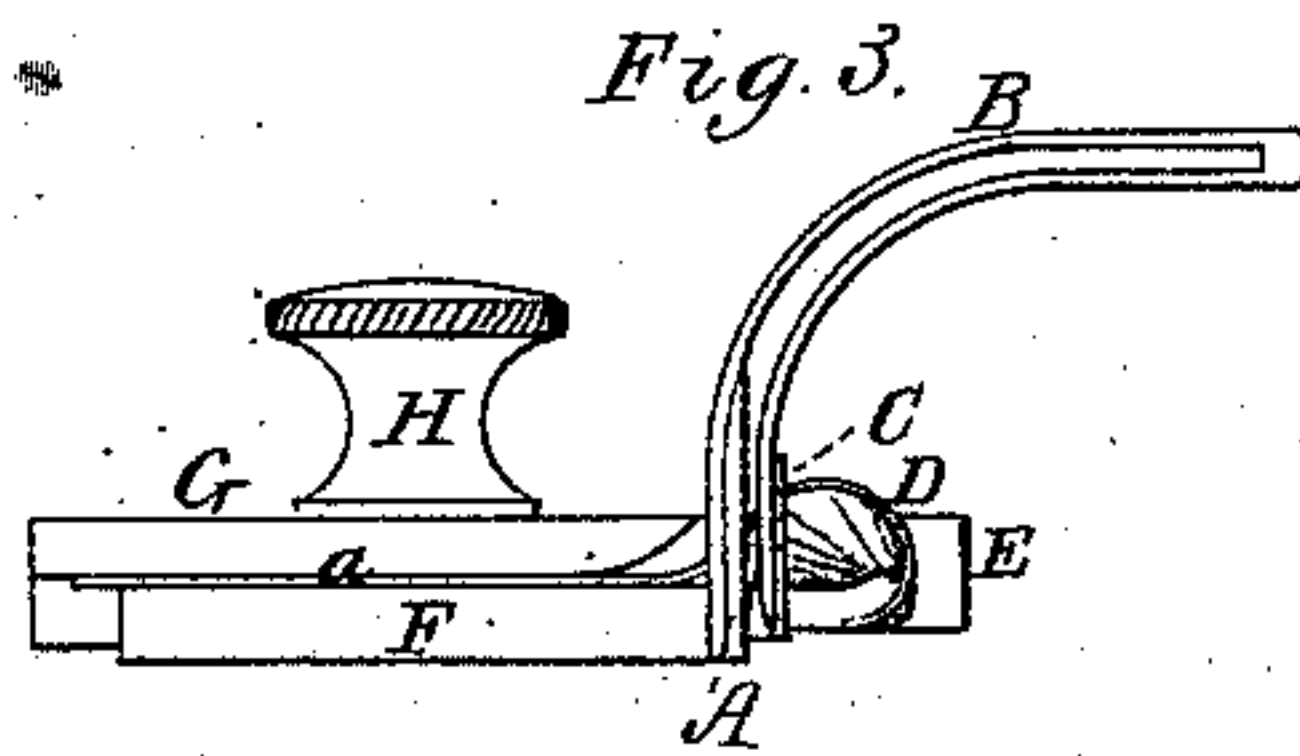
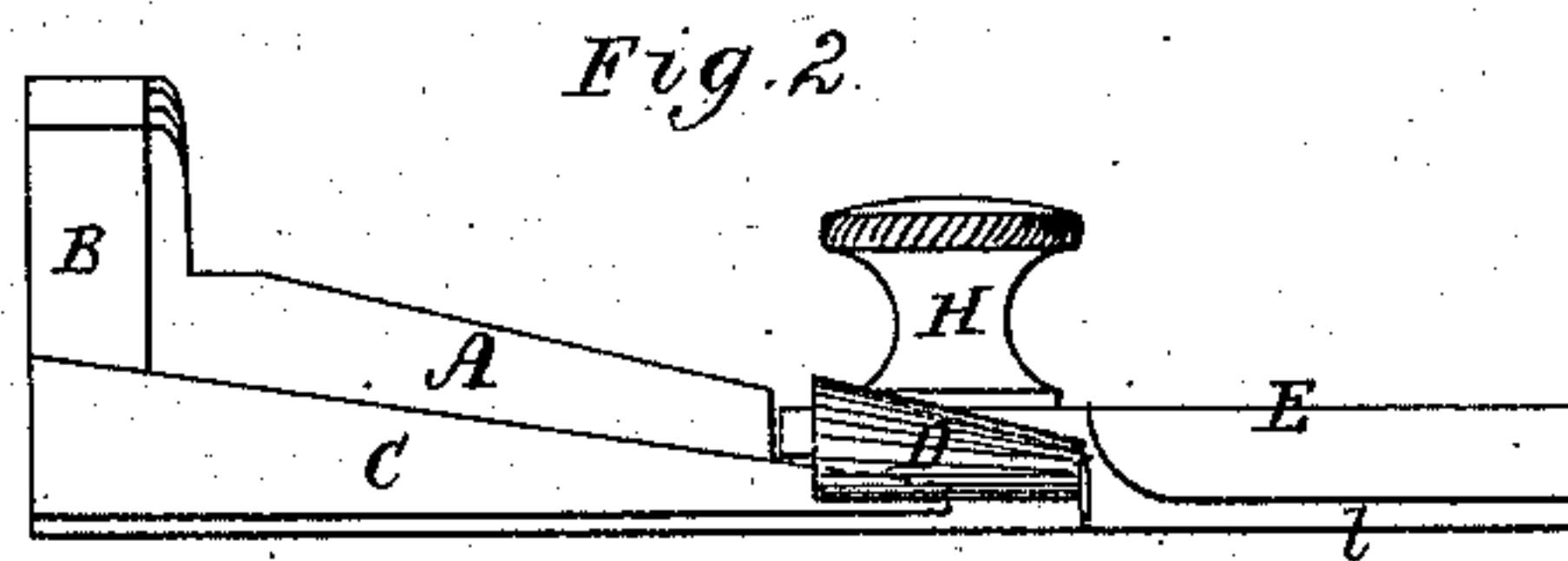
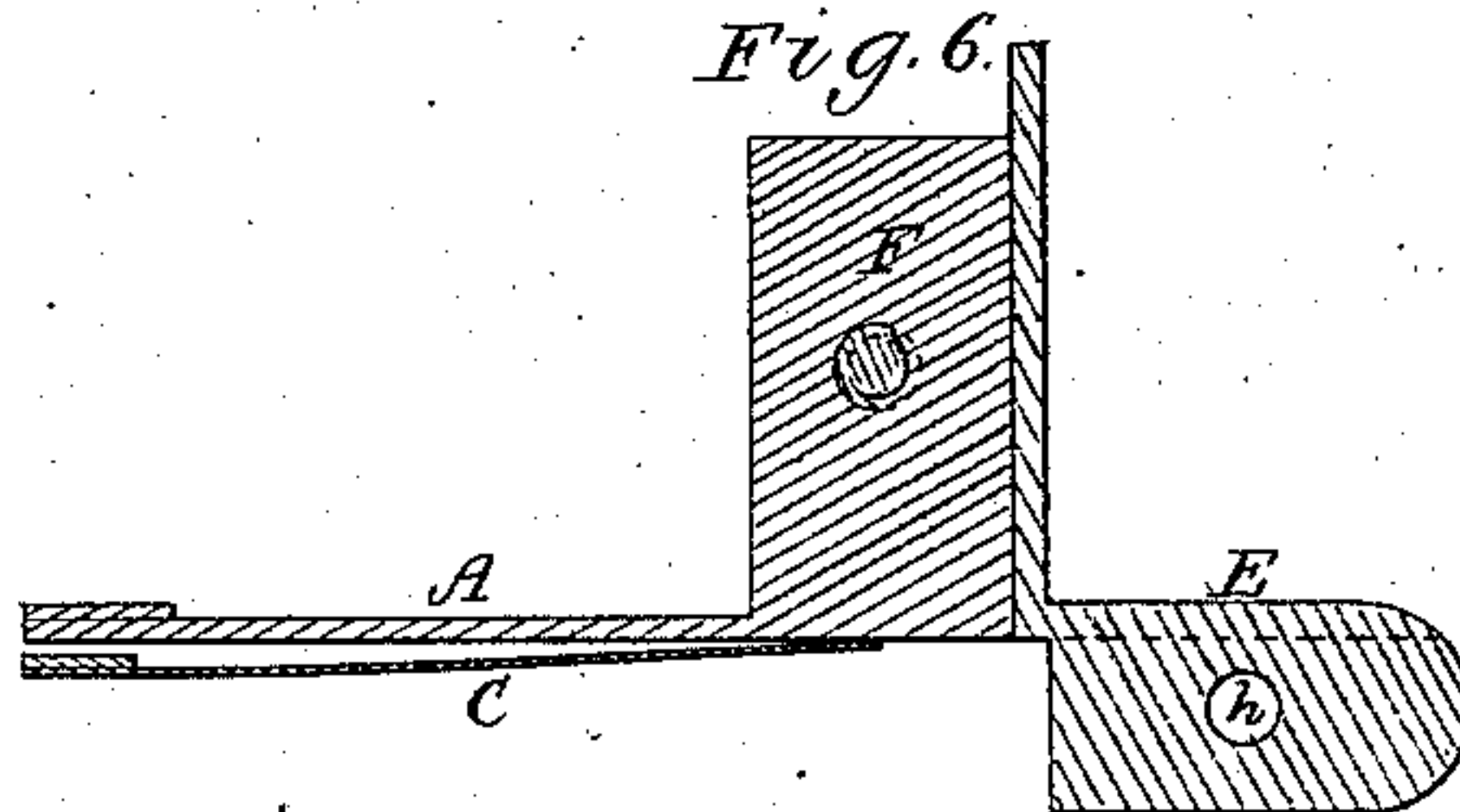
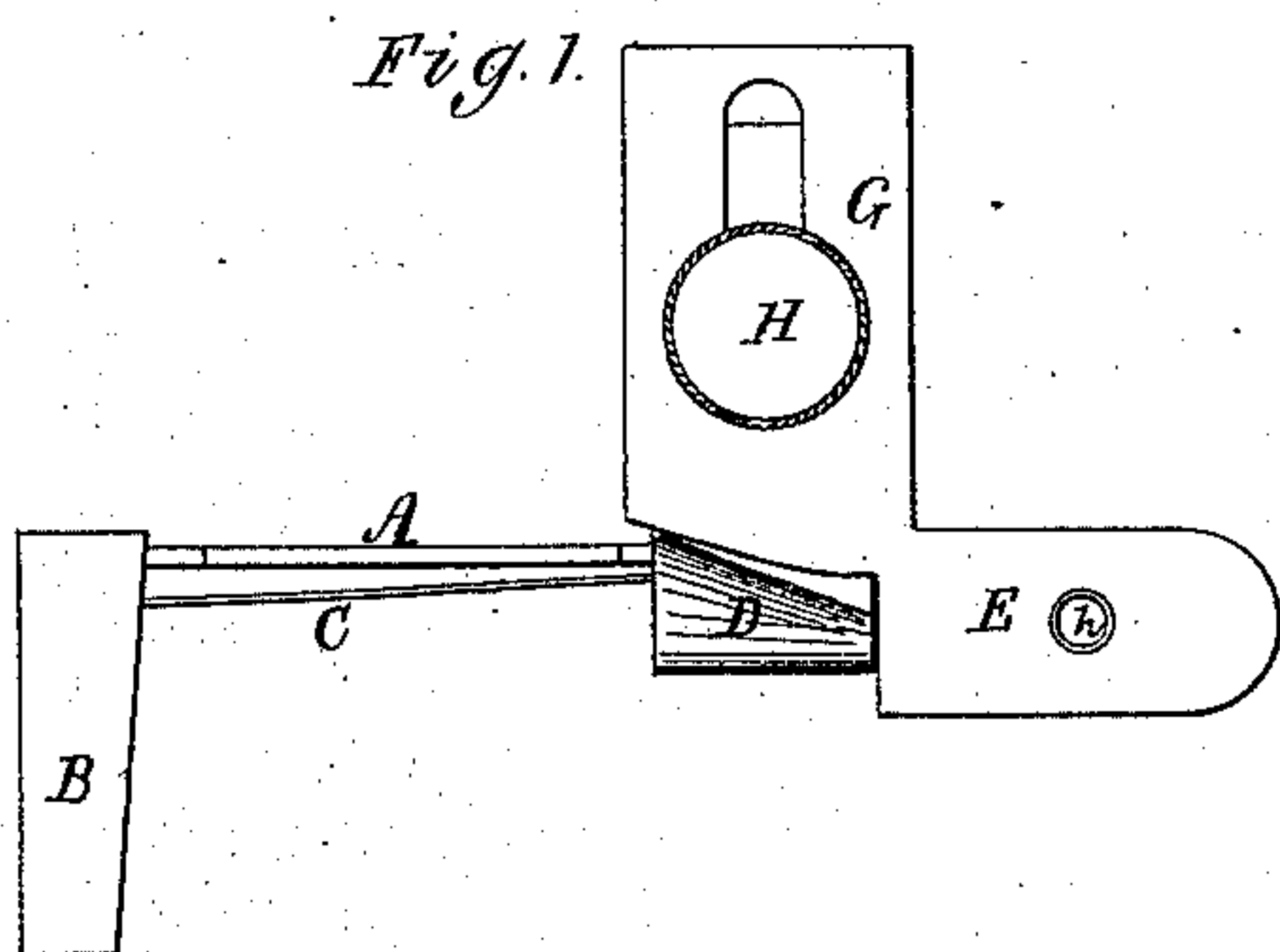


C. H. YOUNG.

Binders or Hemmers for Sewing-Machines.

No. 156,624.

Patented Nov. 3, 1874.



Witnesses.
S. N. Piper.
L. N. Holden.

Charles H. Young.
by his attorney.
R. H. Eddy.

UNITED STATES PATENT OFFICE.

CHARLES H. YOUNG, OF CONCORD, ASSIGNOR TO HIMSELF AND JONAS B. AIKEN, OF FRANKLIN, NEW HAMPSHIRE.

IMPROVEMENT IN BINDERS OR HEMMERS FOR SEWING-MACHINES.

Specification forming part of Letters Patent No. 156,624, dated November 3, 1874; application filed May 13, 1874.

To all whom it may concern:

Be it known that I, CHARLES H. YOUNG, of Concord, of the county of Merrimack and State of New Hampshire, have invented a new and useful Improvement in Hemmers or Binders for Sewing-Machines; and do hereby declare the same to be fully described in the following specification and represented in the accompanying drawings, of which—

Figure 1 is a top view, Fig. 2 a front elevation, Figs. 3 and 4 are end views, Fig. 5 a transverse section, and Fig. 6 a horizontal section, of a hemmer and binder provided with my invention. Fig. 7 is a front view, and Fig. 8 is an end view, of a presser of the form I prefer for aiding in effecting the binding of a knit fabric, the presser shown in the other figures being longer, and adapted for common woven cloth. Fig. 9 is a bottom view, and Fig. 10 an end view, of another form of hemmer, to be used with the back guide and the tongue to be hereinafter described.

In carrying out my invention, I combine with the hemmer or binder, and the back guide connected therewith, (whether the hemmer or binder be stationary or adjustable with reference to such guide,) a tongue extended from a slitted arm and along in front of the guide, such tongue being to keep the fabric close up to the guide while passing to the hemmer or binder, and from thence under the presser or device extended over the work to prevent it from rising with the needle. The said tongue, consisting of a thin strip of steel or other proper metal, I attach to the fore part of a slitted and bent arm or guide projecting from the back guide.

In the drawings, A denotes the back guide, and B the curved and slitted arm, open at bottom, as shown. C is the tongue; D, the binder, which, formed as shown, answers as a hemmer as well as a binder. E is the presser or device for holding down the work during the rise of the needle out of it. F is the support-plate of the back guide, and G is the cap-plate arranged over the plate F and the shank *a* of the binder D, and having the presser projecting from it, as shown. H

is a clamp-screw which goes through the cap-plate and a slot, *b*, in the shank *a* of the binder, (see Fig. 11, which is a top view, and Fig. 12, which is an edge view of the binder,) and screws into the support-plate F.

It will be seen that the binder is adjustable with reference to the back guide, and, within certain limits, can be fixed at any distance therefrom.

The hemmer shown in Figs. 9 and 10 may be substituted for the compound hemmer and binder, or binder, as I term it, shown in Figs. 11 and 12.

The braid or binding, with the cloth, is to be run through the slitted arm, and thence between the back guide and the tongue, thence through the binder, and thence underneath the presser, the needle of the sewing-machine being to work through a hole, *h*, in the presser. The tongue keeps the cloth, braid, or binding close up to the back guide, in order to prevent displacement of the binding or the cloth. It also effects a tension of the braid or binding, to prevent it from becoming creased or wrinkled.

The presser is provided with a lip, *l*, that extends down from it at its rear edge, and from its bottom surface, in manner as shown. This lip is to keep the binding from being crowded off the fabric, and also to keep the presser from bearing too strongly upon the work, when of a knit fabric, as the lip determines the distance of the presser from the surface on which the work is supported.

In binding knit work, my improvement saves all necessity of first basting the binding to the fabric.

I claim as my invention as follows, viz:

The back guide A, curved slotted arm B, tongue C, hemmer or binder D, presser E, support-plate F, and slotted cap-plate G, provided with the clamp-screw H, all constructed and arranged substantially as shown and described.

CHAS. H. YOUNG.

Witnesses:

R. H. EDDY,
J. R. SNOW.