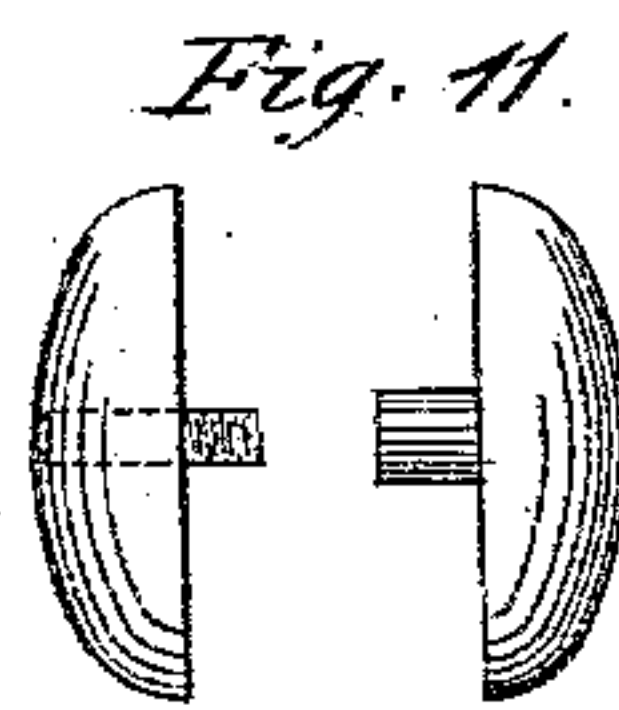
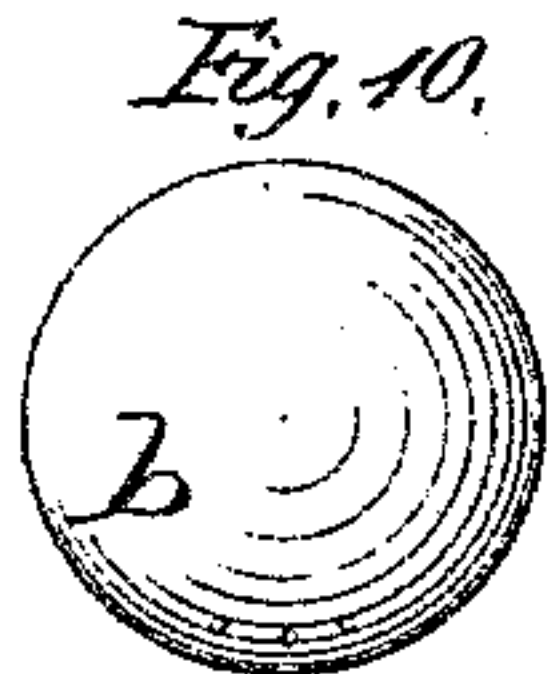
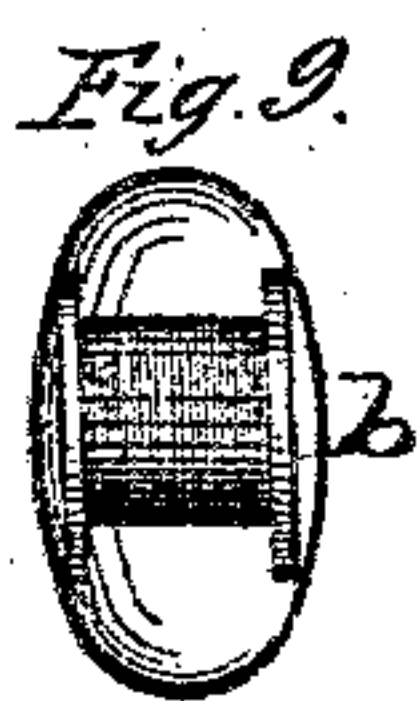
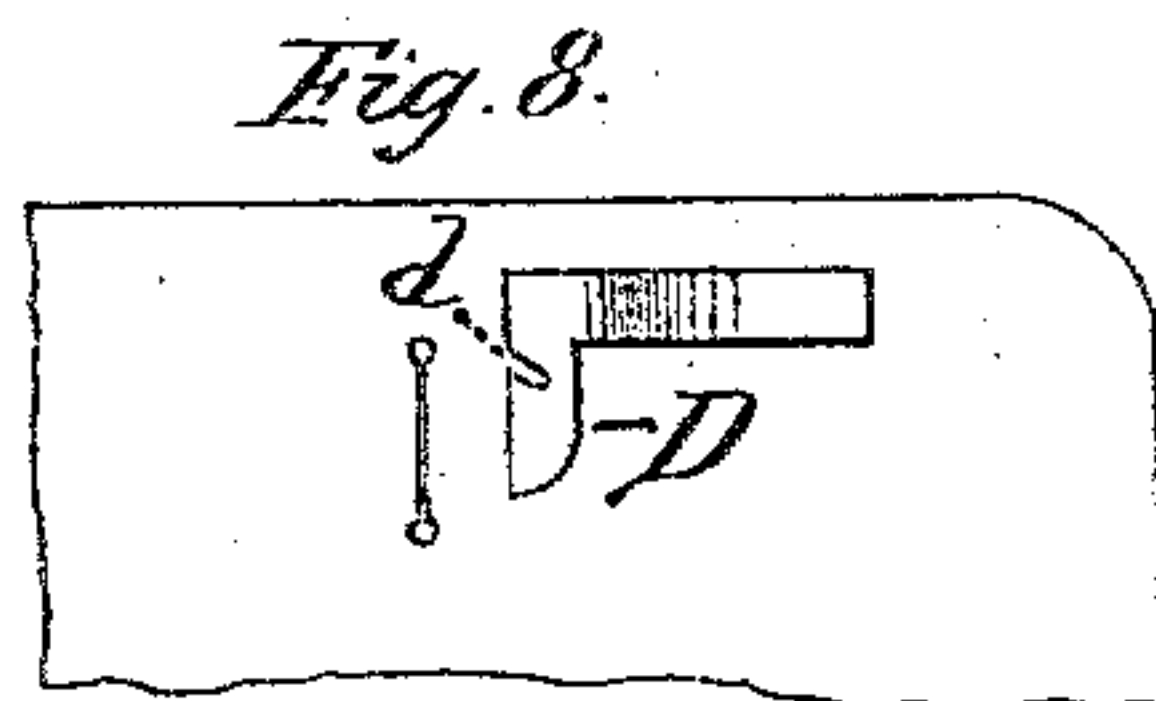
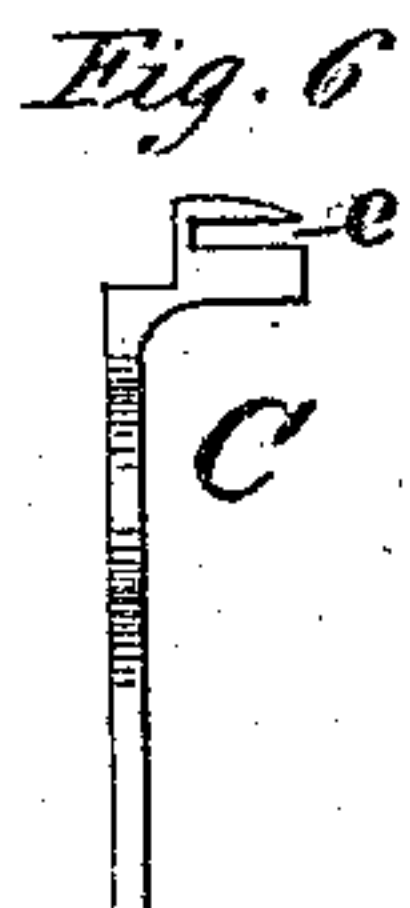
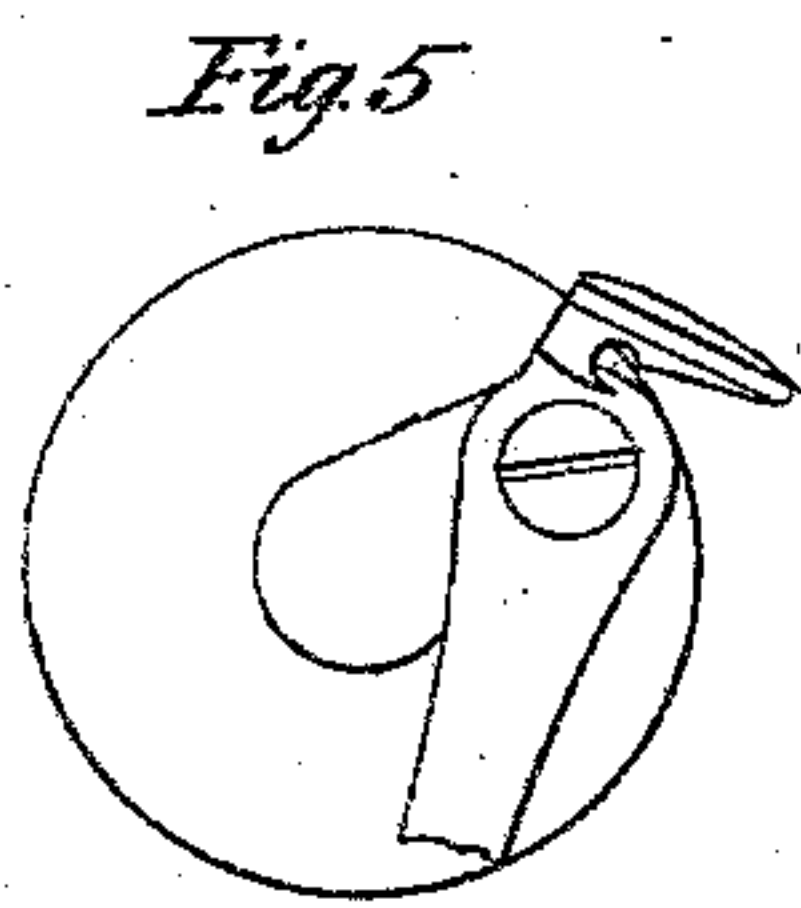
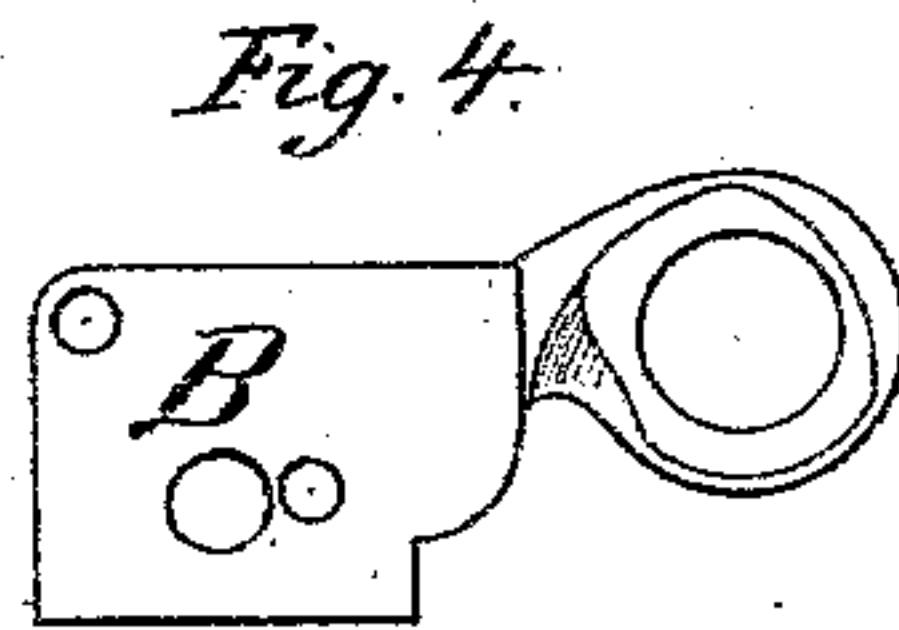
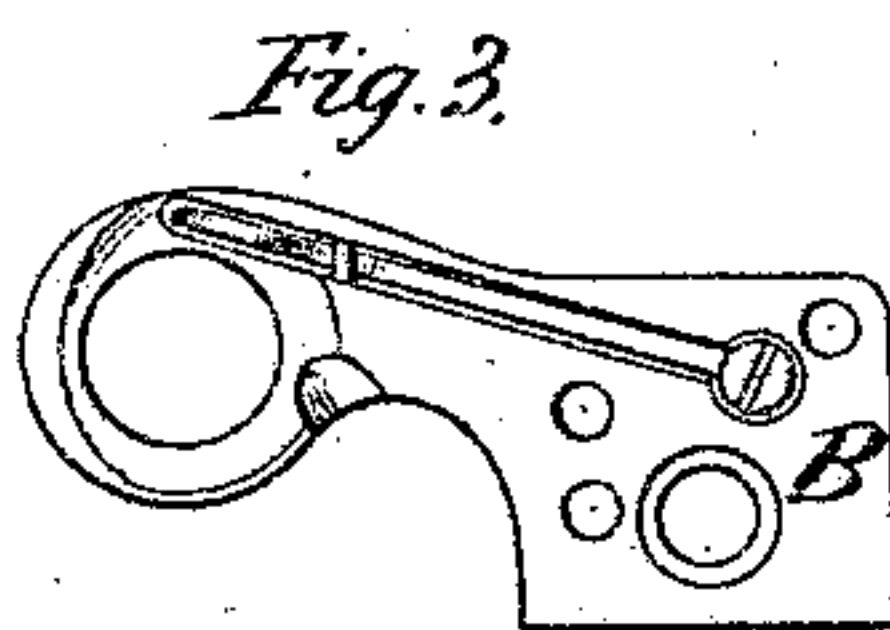
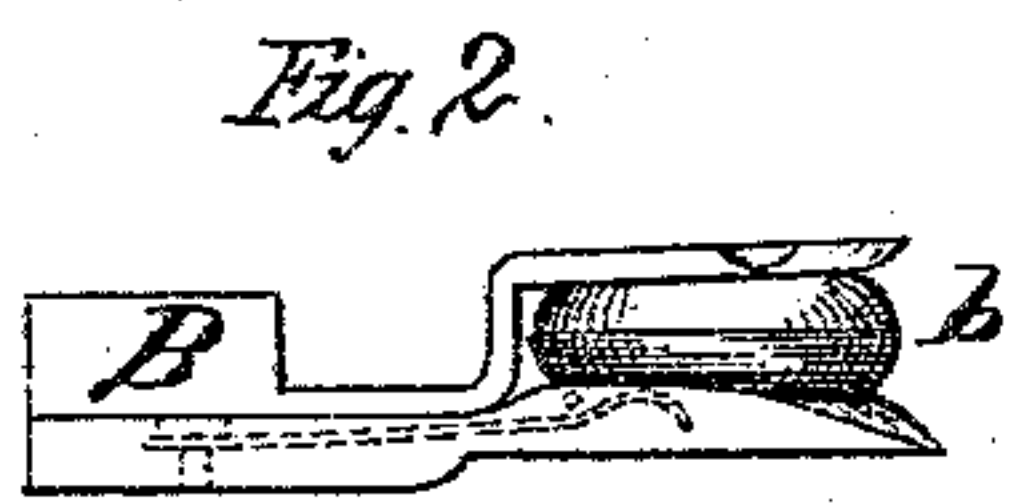
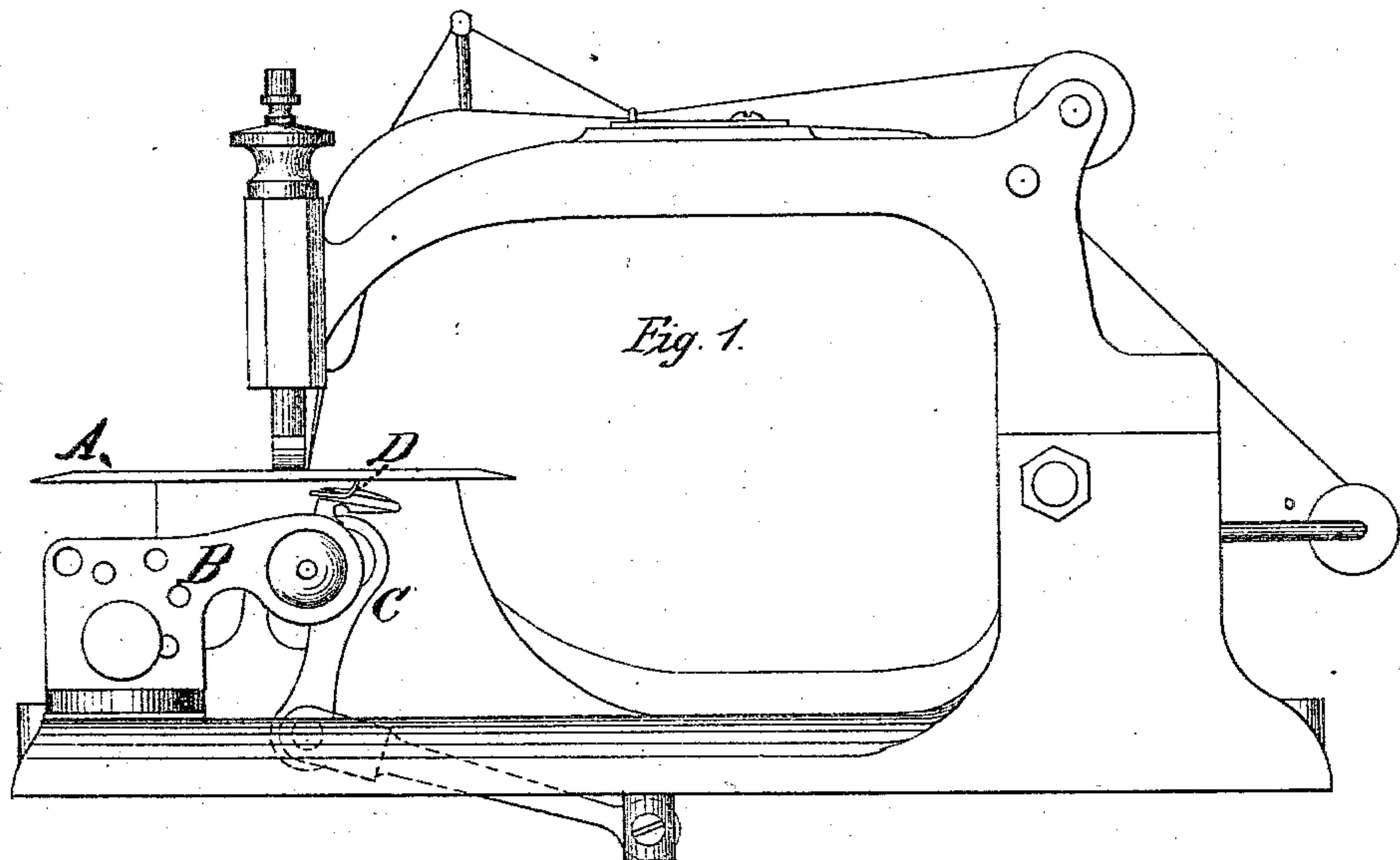


HANNAH G. SUPLEE & JOHN H. MOONEY.

Improvement in Sewing Machines.

No. 115,656.

Patented June 6, 1871.



Witnesses:

Emma Greenaway
W. B. Raymond

Inventors

H. G. Suplee & J. H. Mooney by
H. W. Beadle, atty.

UNITED STATES PATENT OFFICE.

HANNAH G. SUPLEE AND JOHN H. MOONEY, OF SAN FRANCISCO, CALIFORNIA.

IMPROVEMENT IN SEWING-MACHINES.

Specification forming part of Letters Patent No. 115,656, dated June 6, 1871.

To all whom it may concern:

Be it known that we, HANNAH G. SUPLEE and JOHN H. MOONEY, of San Francisco, in the county of San Francisco and State of California, have invented a new and useful Improvement in Sewing-Machines; and we do hereby declare that the following is a full and exact description of the same, reference being had to the accompanying drawing and to the letters of reference marked thereon.

This invention consists of a thread-holder, adapted to hold the upper end of the outer line of the bight of the thread (while the bight is being drawn by the hook over the bobbin-case) in a line parallel, or nearly so, to the line traversed by the needle, at a point removed from said line about the width of the bobbin-case, as will be fully described hereinafter.

In the drawing, Figure 1 represents a side elevation of a machine having our improvements attached thereto; and Figs. 2, 3, 4, 5, 6, 7, 8, 9, 10, and 11, views of parts detached.

To enable others skilled in the art to make and use our invention, we will now proceed to describe fully its construction and manner of operation.

The invention in this application is shown applied to a machine having an elliptic hook.

A represents the cloth-plate; B, the bobbin-holder, holding the bobbin *b*; C, the looper or hook, which is provided with a slot, *c*, upon one side; and D, a finger-hook, located upon the lower side of the cloth-plate. The hook or plate D is arranged upon the cloth-plate in such relation to the hook C that the latter, in its revolution, passes above and below the projecting end of the former by means of the sides of the slot *c*.

The operation is as follows: As the needle begins to ascend the loop of the thread is caught by the hook C in the usual well-known manner, and by its revolution is carried about the bobbin-case. As the hook C, however, passes the finger-plate D, the outer line of the bight or loop is caught by its recess *d*, in which latter it is held until the loop is discharged from

the hook C. By means of this construction the loop of the thread is held as follows: Its inner line is held at the upper end by the needle and at the lower by the inner edge of the hook C, while its outer line is held at the upper end by the finger-plate D and at the lower by the outer edge of the hook C, the sides being united by the thread lying in the groove of the hook. It therefore follows that we are enabled to form the thread-loop with parallel sides, or nearly so, the width between the sides being determined by the width of the hook C and the relative position of the finger-plate D. It will be perceived that by this means we are enabled to pass the thread over the bobbin-case without undue friction upon any part, and also that we can use, if desired, a very large bobbin. A large bobbin is shown in the drawing, the holder of which is adapted, as shown, for its reception.

In practice it may not be necessary to hold the outer line of the thread-loop at a point as far away from the line traversed by the needle as would be indicated by the width of the bobbin-case. We therefore do not limit ourselves to the precise point at which the thread may be held.

Having thus fully described our invention, what we claim as new, and desire to secure by Letters Patent, is—

1. The combination of a rotating hook, substantially such as described, with a recessed thread-holder, the two operating to hold one part of the bight of the thread and pass the loop over the bobbin-case, substantially as described.

2. The combination of a slotted hook with a recessed and stationary finger-plate, substantially as described.

In witness whereof we have hereunto set our hands and seals.

HANNAH G. SUPLEE. [L. S.]
JOHN H. MOONEY. [L. S.]

Witnesses:

C. W. M. SMITH,
H. S. TIBBEY.