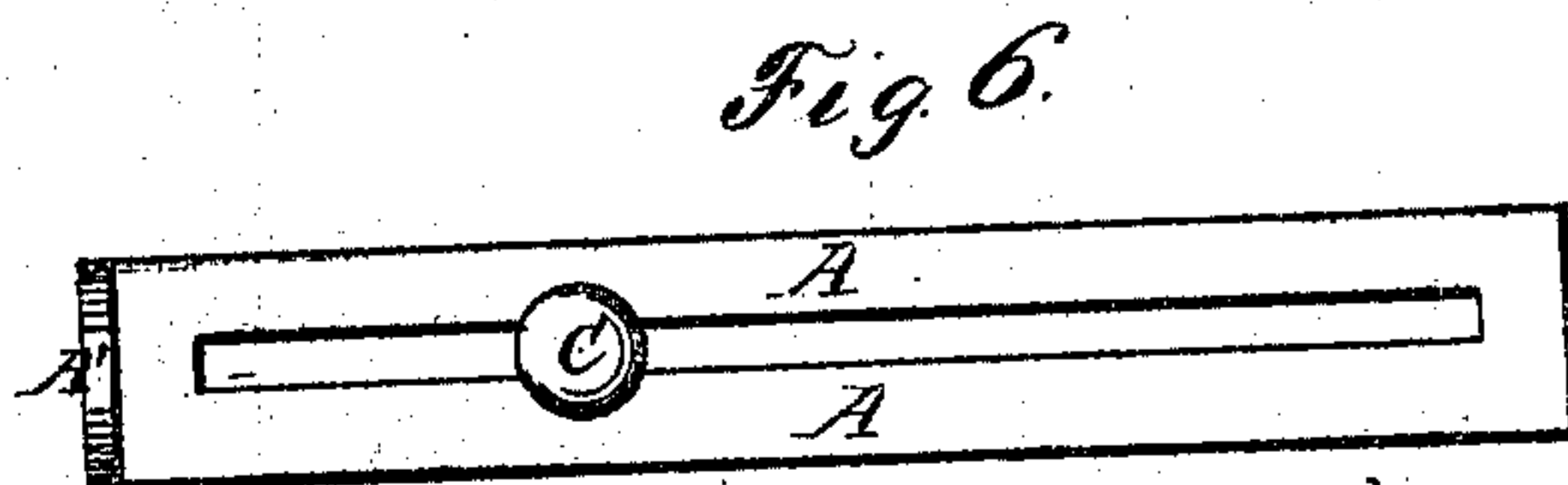
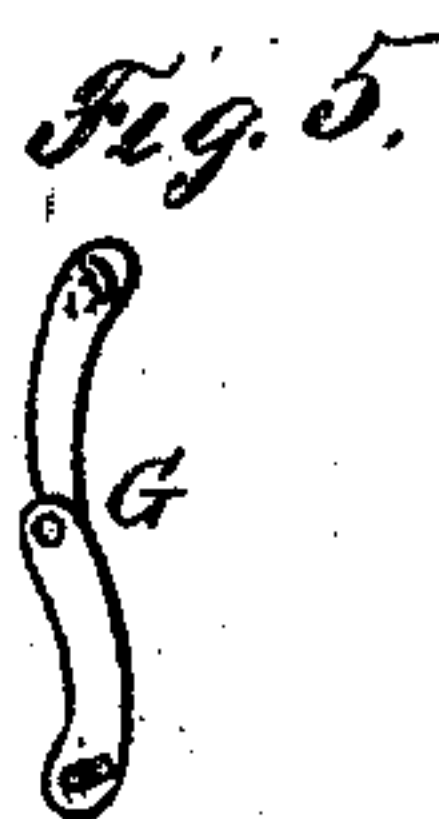
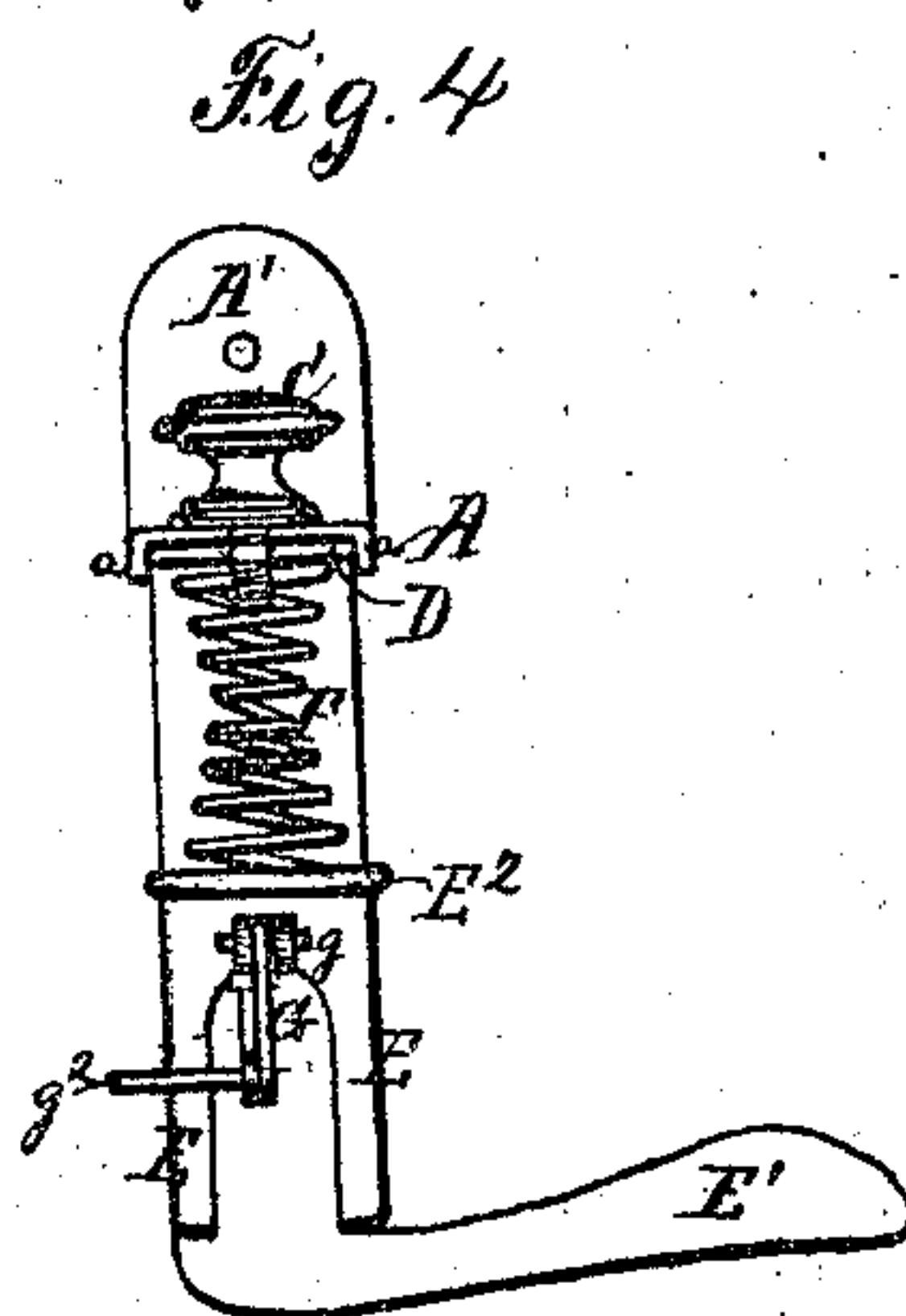
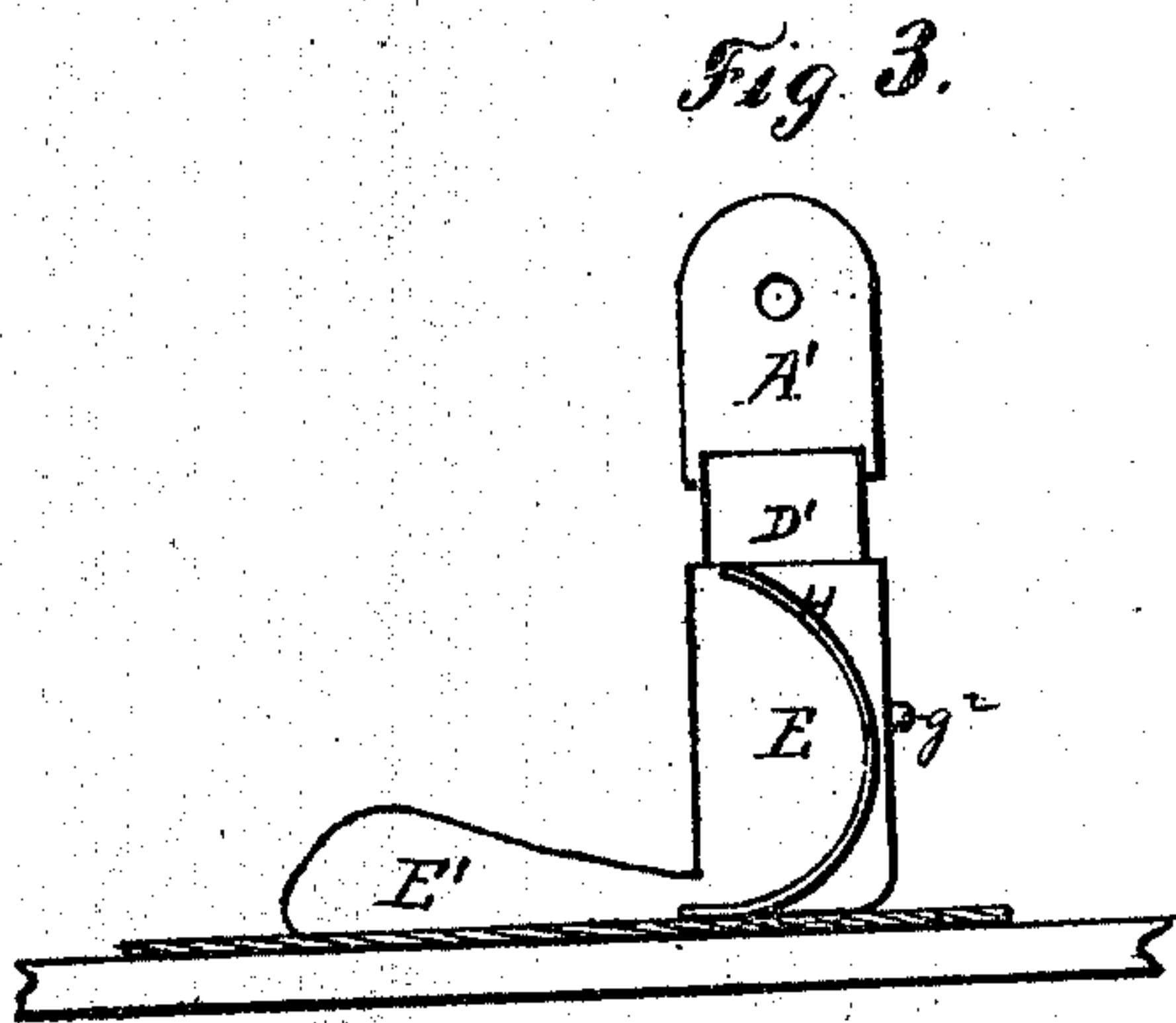
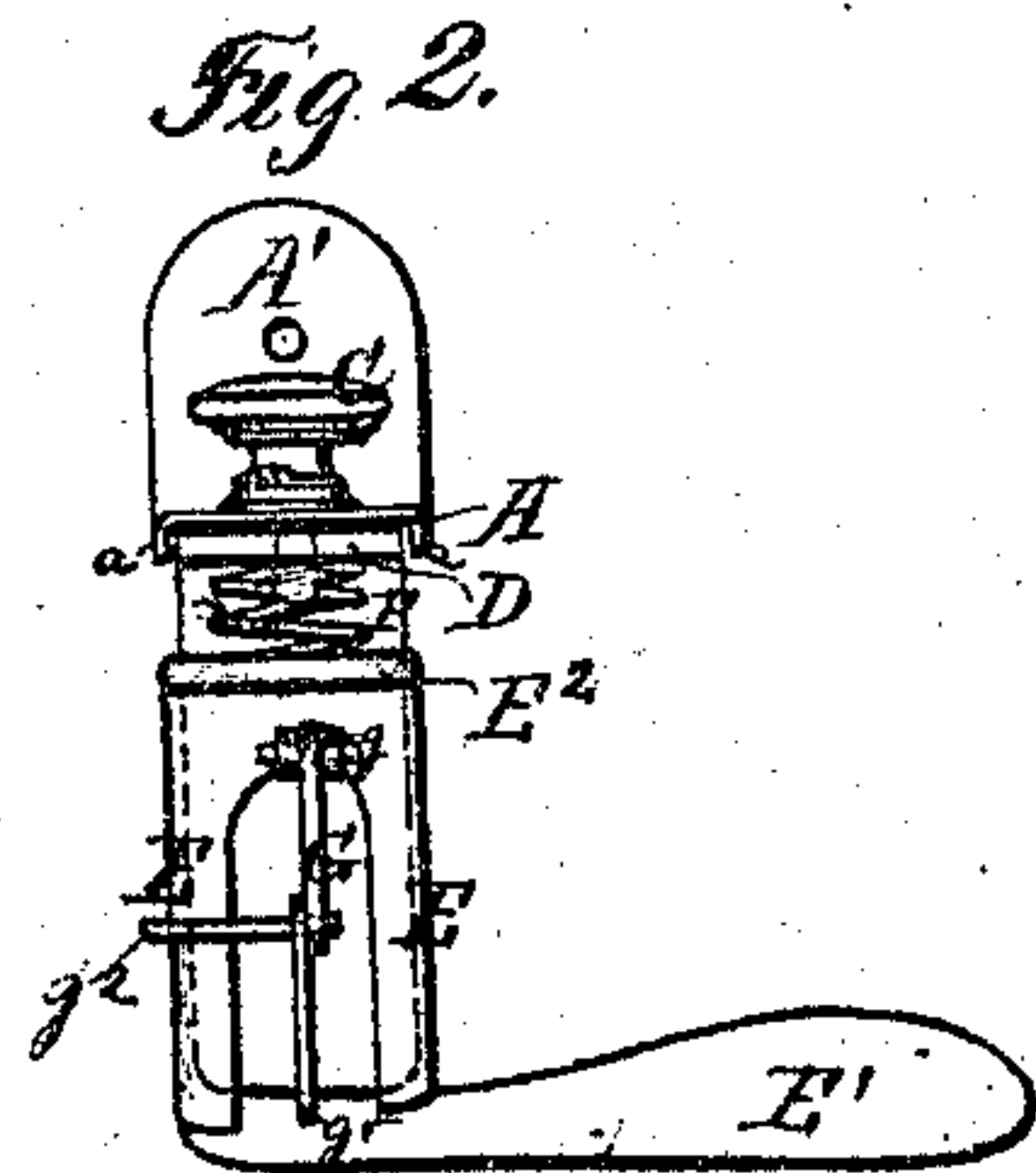
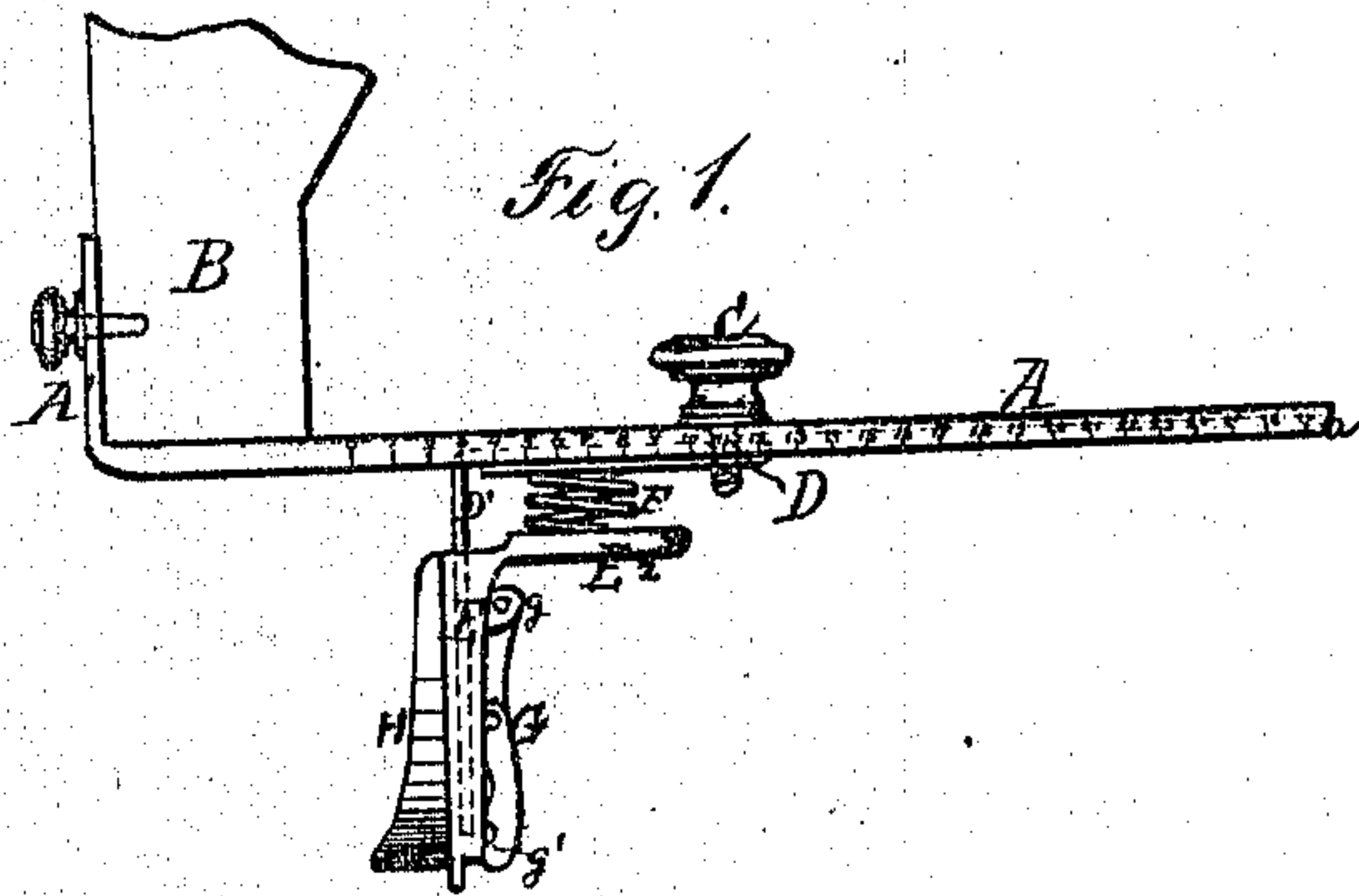


F. Herterich
Guide.

No 112,245.

Patented Feb 28. 1871.



Attest
A. Ruppert
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Inventor
by
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his Agent

UNITED STATES PATENT OFFICE.

FRANZ HERTERICH, OF JERSEY CITY, NEW JERSEY.

IMPROVEMENT IN GUIDES FOR SEWING-MACHINES.

Specification forming part of Letters Patent No. 112,245, dated February 28, 1871.

To all whom it may concern:

Be it known that I, FRANZ HERTERICH, of Jersey City, in the county of Hudson, and in the State of New Jersey, have invented new and useful Improvements in Attachments for Sewing-Machines; and I do hereby declare the following to be a full, clear, and exact description thereof, reference being had to the accompanying drawing, making a part of this specification, in which—

Figure 1 is a side elevation. Figs. 2, 3, and 4 are end (rear and front) elevations. Fig. 5 is a side elevation of the toggle-joint. Fig. 6 is a plan view.

The same letters of reference are employed in the several figures to indicate identical parts.

This invention relates to improvements in sewing-machines, and is more specially adapted for use upon Singer's improved family sewing-machine, but may also be attached to other sewing-machines.

The improvement consists in an attachment fastened to the lower end of the frame just in advance of the needle. It may, however, also be attached to other parts of the arm of a sewing-machine with a slight alteration of the slotted plate A, and carrying an adjustable slide with a spring or elastic guide, along which the edge of the cloth slides in sewing a seam, and a spring or elastic presser-foot to hold the folded edge of a hem down upon the table with a pressure sufficient to prevent the curling of the cloth.

To enable others skilled in the art to make and use my invention, I will proceed to describe its construction and operation.

The horizontal plate A of the device is furnished with a vertical flange, A', at one end, by which it is secured to the face-plate of the frame B of the machine just in advance of the needle, or as set forth. The horizontal part extends laterally in line with the frame or arm B, and is provided with a longitudinal slot for the passage of the shank of a thumb-screw, C, the head of which bears down upon the upper surface of the plate, while its screw-threaded shank enters a tap in the slide D to secure the latter to the plate.

The slide D is arranged between ways *a a*,

formed on the under side of the plate A, and constructed with a vertical part, D', extending downward, terminating, however, some distance above the table of the machine.

Upon the vertical arm D' of the slide D another slide, E, is arranged to move vertically. This slide E terminates at its lower end in a transverse horizontal arm, E¹, which, when pressed down upon the table, forms the ordinary guide for the edge of the cloth or fabric to be sewed. The upper end of the slide E terminates in a horizontal bracket, E², extending under the slide D, and forming a support for one end of a helical spring, F, the other end of which bears against the under side of the slide D in the manner clearly shown in the drawing. The slide E is attached to the arm D', upon which it moves, by a toggle-joint, G, one bar of which is pivoted to the arm D' at *g*, while the other bar is hinged to the slide at *g*¹.

The holes in the bars for the reception of the pivots or pins *g* and *g*¹ are slightly elongated in an oblique direction, as clearly shown in Fig. 5, so that when the bars are straightened the force of the spring F will tend to force the joint against the arm D' and prevent the joint from folding. In this manner the guide E¹ may be held in an elevated position above the table when it is not to be used.

The pin *g*², by which the bars of the toggle-joint are pivoted together, extends a short distance beyond the bars on one side to form a small handle, by which the jointed ends of the bars may be drawn outward to allow the guide E¹ of the slide E to descend upon the table, upon which it will be firmly held down by the action of the spring F upon the bracket of the slide.

To elevate the slide E, it is only necessary to push under its bracket until the bars of the toggle-joint are straightened.

Upon the face of the slide E is a curved spring or elastic presser-foot, H. It is fixed at its upper end, and curved into a horizontal position along the under edge of the guide E¹, so that when the latter rests upon the table the folded edge of a hem passing along the guide will be gently pressed down upon the table by this spring, whereby the curling of

the cloth at this point, which is the source of much annoyance, is entirely prevented.

The slide D and its appendages may be set at any desired distance from the needle by shifting it in the slotted plate A, which may be provided with a scale upon one or both edges.

Having thus described my improved invention, what I claim, and desire to secure by Letters Patent, is—

The combination of the slide D D', sliding guide E E', spring F, or its equivalent, and the toggle-joint G, substantially as set forth.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

FRANZ HERTERICH.

Witnesses:

WM. BRINKERHOFF,

WILLIAM W. SANDERSON.