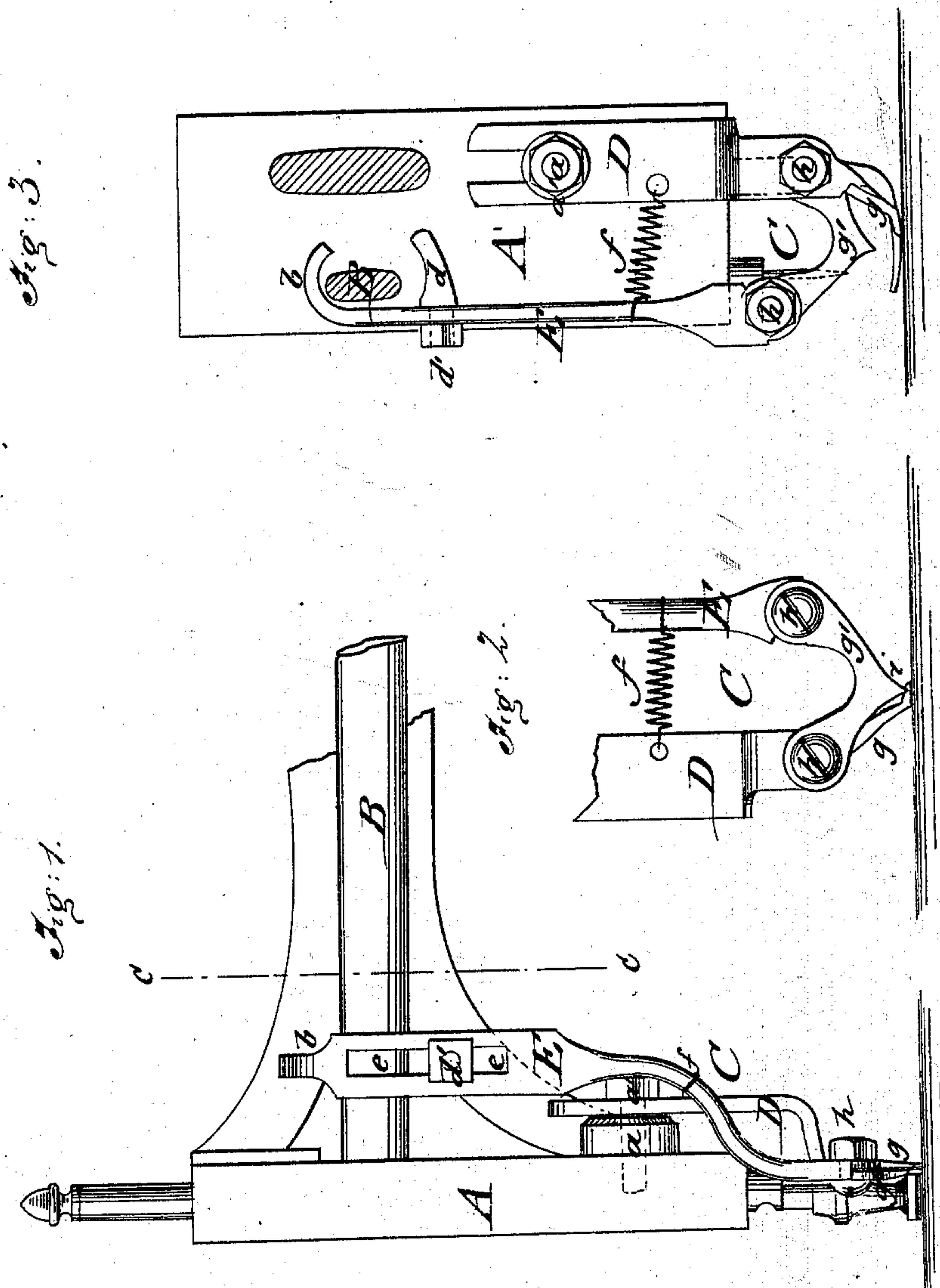


W. H. SAMPLE.

Cutting-Attachments for Sewing-Machines.

No. 144,480.

Patented Nov. 11, 1873.



Witnesses:

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UNITED STATES PATENT OFFICE.

WILLIAM H. SAMPLE, OF ALBANY, NEW YORK.

IMPROVEMENT IN CUTTING ATTACHMENTS FOR SEWING-MACHINES.

Specification forming part of Letters Patent No. 144,480, dated November 11, 1873; application filed August 4, 1873.

To all whom it may concern:

Be it known that I, WILLIAM H. SAMPLE, of Albany, in the county of Albany and State of New York, have invented a new and Improved Cutting Attachment for Sewing-Machines, of which the following is a specification:

In the accompanying drawing, Figure 1 represents a side elevation of my improved cutter attachment as applied to a sewing-machine; Fig. 2, a detail front view of the cutter-blades and spring connections of the arms; and Fig. 3, a rear view of the cutter attachment, partly in section, on line *c c*, Fig. 1.

Similar letters of reference indicate corresponding parts.

The object of my invention is to furnish an improved cutter attachment for sewing-machines, by which fabrics of all kinds may be cut simultaneously with the stitching, and at suitable distances from the line of stitches, by the action of the machine, in a neat and efficient manner. The instrument is simple and durable, and may, with slight variation, be attached to nearly every sewing-machine. My invention consists of two upright arms, one of which is attached to the guide-casing of the needle-bar, or its equivalent part, and the other is connected loosely with the main arm of the sewing-machine.

The stationary arm carries at its lower end a cutter-blade, which, together with a pivoted cutter-blade operated by the reciprocating arm, cuts the fabric as the same is fed by the machine to it and the needle.

For the purpose of illustrating the application of my cutter, the drawing indicates it attached to a Howe sewing-machine, though it may, with slight changes, be applied to any of the sewing-machines in use.

A represents the vertical guide-casing of the needle-bar; B, the main lever-arm of the machine, which actuates the needle-bar; and C, the cutter attachment. The attachment C is connected to the casing A and arm B by the upright rods or arms D and E. Arm D is secured to A by screw-bolt *a*, which passes through its bifurcated end and nut *a'*. Arm E has a hook, *b*, at its end, which encircles arm B, and it is acted upon by such arm in its upward motion. The part E has a horizontal curved lug, *d*, adjustable, by nut *d'*, in

slot *e*, to be acted upon by arm B in its downward motion. Both arms, D E, are curved at their lower ends, to project forward and operate above the throat-plate near the needle and presser-foot. A strong spiral spring, *f*, connects both arms, D E, and prevents the playing loose of the latter from arm C, securing also the required distance of the loose arm, E, from the stationary arm, D. A forward-projecting angular cutter-blade, *g*, forms the lowermost end of arm D, the reciprocating blade *g'* being pivoted at the side of blade *g*, and to the end of arm E by bolts and nuts *h*. Blade *g'* is of U shape and flattened, and is provided with a sharp-pointed edge, *i*, at the lower side, which acts shear-like on the stationary blade *g*, as shown in Fig. 2. The fabric, whether it be cloth, leather, or silk, &c., is fed to the needle and at the same time to the cutter-blades, which cut the same at equal distance from the stitching evenly and smoothly, both needle and blades being operated by arm B.

The height of the cutter attachment C above the throat-plate, so as not to strike and injure the same, is regulated by the forked end of arm D, and slot *e* of arm E. The distance from the needle may be adjusted or determined by bolt *a*.

I do not claim operating a cloth-cutter or other analogous sewing-machine attachment by means of a bar connected with the needle-arm or the shaft of the same.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

1. The blade *g'*, constructed as shown, in combination with blade *g*, as specified.

2. In combination with the cutters, the slotted arm E having the curved or hooked end *b*, and the adjustable arm *d* provided with a clamp-nut, *d'*, whereby the device is adapted to be applied to the arm B of a sewing-machine, as described.

3. The cutting attachment C, consisting of stationary arm, D, with angular blade, loose arm, E, pivoted cutter-blade *g'*, and spring *f*, substantially as set forth.

WILLIAM H. SAMPLE.

Witnesses:

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