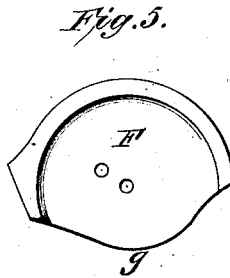
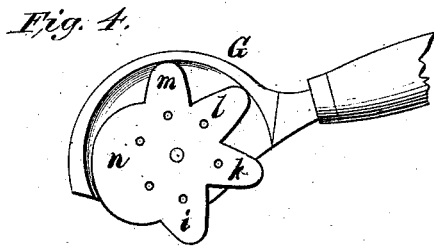
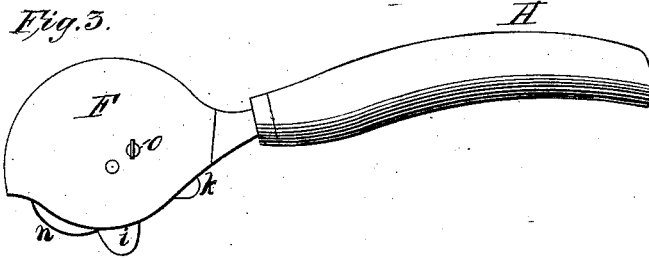
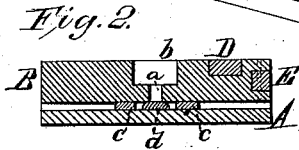
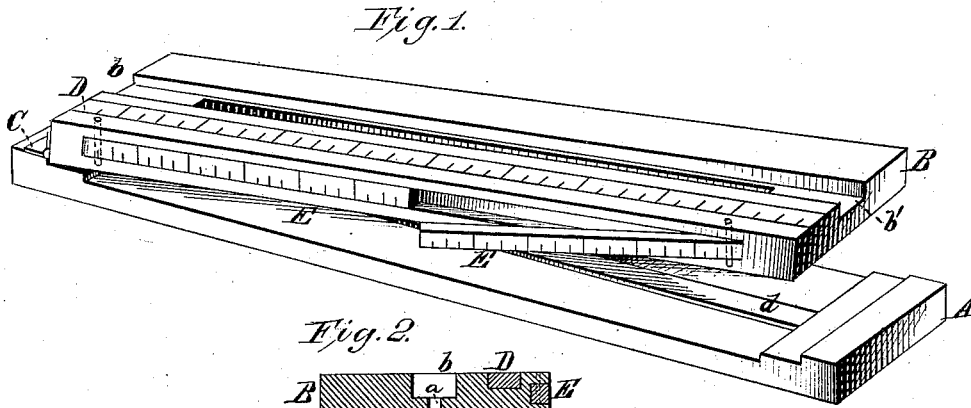


D. P. SARGENT.
Machines for Cutting Fabrics.

No. 197,901.

Patented Dec. 4, 1877.



Attest:

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Inventor:

David P. Sargent

UNITED STATES PATENT OFFICE.

DAVID P. SARGENT, OF HAVERHILL, MASSACHUSETTS.

IMPROVEMENT IN MACHINES FOR CUTTING FABRICS.

Specification forming part of Letters Patent No. **197,901**, dated December 4, 1877; application filed May 7, 1877.

To all whom it may concern:

Be it known that I, DAVID P. SARGENT, of Haverhill, in the county of Essex and State of Massachusetts, have invented certain new and useful Improvements in Machines for Cutting Fabrics, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

Figure 1 is a perspective view of my improved fabric-holder, the same being shown as opened to receive the fabric to be cut; and Fig. 2 is a cross-section thereof, the parts being closed down, one upon the other, and the fabric being omitted. Fig. 3 is an elevation of the cutter complete and ready for use. Fig. 4 is a similar view, showing the knife with its several blades, the cap or plate being removed; and Fig. 5 is an elevation of the detached cap or plate.

Like letters in all the figures refer to corresponding parts.

The object of my invention is to provide a simple and comparatively inexpensive apparatus for holding and cutting fabrics, such as cloth, carpets, silk, felt, and the like; and to this end it (the invention) consists in certain novel arrangements and combinations of parts, as will be hereinafter fully described, and then pointed out in the claims.

A is the bed or base of the holding implement, upon which the material to be cut is clamped by means of the plate B, hinged at one end to the base, as at C. The plate B has a central longitudinal slot, *a b*, the lower portion of which, *a*, permits the passage of the cutting-knife through to the fabric, and the upper enlarged portion *b* serves as a guide for the casing of said knife, as will hereinafter appear.

In order that the fabric may be firmly held in proper position for cutting, the plate B is provided with two rubber or other strips, *c*, running parallel with, and one upon each side of, the slot *a*, which strips force the fabric down upon the cutting-block *d*, attached to the base, and intended to receive the impress of the knife. When the two parts A and B are closed together upon the fabric it is obvious that it will be securely held, and that the drawing of the cutting-blade through the slot *a* will not

ravel the goods, as would be liable to be done without the use of some clamps upon each side of the line through which the cut is to be made. These clamps press the goods down upon the surface which receives the impress of the cutter; otherwise, as in case a slot be made in this surface into which the blade may project, the difficulty alluded to cannot well be avoided.

A rule or measure, D, suitably graduated, is attached to the upper face of the plate B, for convenience in making such measurements as may be desired during the use of the implement, or at other times.

In the side of the plate B are hinged a couple of measures, E E, the purposes of which are to gage the amount of material to be cut off from the main piece. They are graduated from the hinge outwardly, and, when located at right angles to the edge of plate B, will serve to indicate the length of the piece of cloth projecting beyond the knife-slot *a*. When not in use they are closed down and rest within a suitable recess provided for their reception.

The knife or cutter intended to be used in connection with the above-described holder is composed of a shell or casing, F G, in thickness about equal to the width of slot *b*. This is provided with a suitable handle, H, and has a curved lower surface, as at *g*, adapting the casing to be run along smoothly and easily upon the bottom of the slot *b*. The blade is axled within this casing, and is composed of a number of projecting parts, *i k l m n*, each being perforated to receive the stop-screw *o*. The space between the several cutting parts of the axled blade is so graduated as that when any particular one is turned downwardly and held in place by the stop-screw *o*, those next adjacent will not project sufficiently below the curved surface *g* to reach the cloth or fabric which is held in the clamp A B.

The cap F is easily removed by turning out screw *o*, whereupon the knife or cutter may be taken out and ground, as occasion may require.

The cloth to be cut being suitably clamped and held, the cutter is moved along in the slot provided for it, either toward or from the operator, in a manner easily understood from the drawing. If the goods be considerably less in width than the guide is long, the blade *n*, having the greatest curvature, may be most advan-

tageously used, and if the goods be about equal in width to the length of the guide, then one of the other blades should be employed, so that the cut may be made the entire width without difficulty. To insure the complete and effectual cutting of all ordinary widths, the guide is intended to be made as long as will ordinarily be required, and the upper face of the clamp B is cut away, as at *b' b'*, to afford room for so much of the blade-casing as may project beyond the blade on either side.

As thus constructed and arranged, the device is easily operated, and is found to admirably answer the objects of the invention, as before stated.

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

1. In an implement for holding fabrics to be cut, the combination, with the base thereof, which has a raised longitudinal strip to receive the impress of the cutting-blade, of a slotted

clamping-plate hinged to said base at one end, and adapted to hold the goods upon both sides of said longitudinal strip, substantially as and for the purposes set forth.

2. In combination with a slotted clamping-plate hinged at one end to a suitable base, and adapted to hold a fabric to be cut, in the manner specified, a gage or rule hinged to said plate at one side thereof, and serving to measure the length of the piece to be detached, substantially as shown and described.

3. In combination with the herein-described casing for a fabric-cutter, a series of cutting-blocks axled within said casing, and adapted to be removed or clamped in place for use, in the manner and by means substantially such as herein specified.

DAVID P. SARGENT.

Witnesses:

W. H. PAGE,
A. C. TAPLEY.