

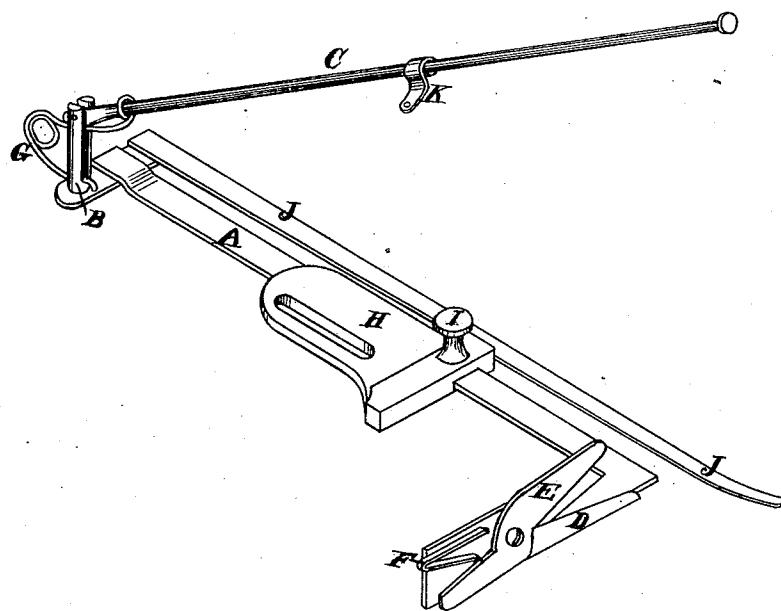
M. A. GRAHAM.

Cutting-Attachments for Sewing-Machines.

No 157,322.

Patented Dec. 1, 1874.

Fig. 1.



Witnesses

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UNITED STATES PATENT OFFICE.

MARCELLUS A. GRAHAM, OF SAN FRANCISCO, CALIFORNIA.

IMPROVEMENT IN CUTTING ATTACHMENTS FOR SEWING-MACHINES.

Specification forming part of Letters Patent No. **157,322**, dated December 1, 1874; application filed August 12, 1874.

To all whom it may concern:

Be it known that I, MARCELLUS A. GRAHAM, of San Francisco city and county, State of California, have invented a Cutting Attachment for Sewing-Machines; and I do hereby declare the following description and accompanying drawings are sufficient to enable any person skilled in the art or science to which it most nearly appertains to make and use my said invention without further invention or experiment.

My invention relates to that class of sewing-machine cutting attachments in which an oscillating cutting-blade is operated against a fixed cutting-blade, through intermediate means, from the needle-arm.

My invention consists in certain details of construction, as hereinafter more fully described, by which I simplify the cutter, and avoid any alteration in order to attach and use the cutter.

Referring to the accompanying drawing for a more complete explanation of my invention, Figure 1 is a perspective view of my attachment.

A is an arm, which lies horizontally upon the cloth-plate of a sewing-machine. This arm has at one end a post, B, to support the vibrating arm C, which is operated by the needle-arm. At the opposite end the arm A is bent at right angles with itself, and has formed upon it one jaw or cutter, D, of a pair of shears. The upper or movable jaw, E, is hinged to the back part of the angular extension of the arm A, and its outer end lies in a line just beneath the vibrating arm C. This arm is operated by the needle-arm, which presses it down at every stroke, and thus presses the jaws of the shears together. A spring, F, serves to raise the upper jaw after each depression, and thus opens the shears for another cut. The spring G raises the arm C at the same time.

In order to determine the width of the goods to be cut I employ a gage, H, having a

set-screw, I, by which the bar A is secured at any desired point. A screw passing through this gage secures it to the cloth-plate, and, as the bar A passes through the gage, the whole device is easily fastened in place.

A spring bar or arm, J, is fastened, as shown, at one end, and lies parallel with the arm A, and close beside it.

The gage H is set as near the needle as is suitable, and, the set-screw I being loosened, the arm A, carrying the cutter, is moved to the required point, and secured. The cloth to be cut is then passed beneath the spring-bar J, which folds an edge over, so that the needle will pass through it, and this edge is thus hemmed while the cutter is severing the goods.

The arm C is attached to the needle-arm by a loose clip, K, which slides along the arm C, and has a hole in it through which the needle passes.

In case the edge of goods was not to be hemmed a short pin might be substituted for the needle, so that it would enter the clip but not touch the cloth.

This device is extremely useful for cutting the trimming which is used in narrow strips in large quantities for ladies' dresses; and it can be made with great rapidity and exactness by simply running the machine at a considerable speed.

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

The bars A J, in combination with the shears E D, spring F, post B, spring G, rod C, and clip K, all constructed, arranged, and operated as set forth.

In witness whereof I hereunto set my hand and seal.

MARCELLUS A. GRAHAM. [L. S.]

Witnesses:

JNO. L. BOONE,
C. M. RICHARDSON.