

(Model.)

2 Sheets—Sheet 1.

E. S. CRAM & E. C. COVELL.

MECHANISM FOR SEWING AND TRIMMING FABRICS.

No. 317,930.

Patented May 12, 1885.

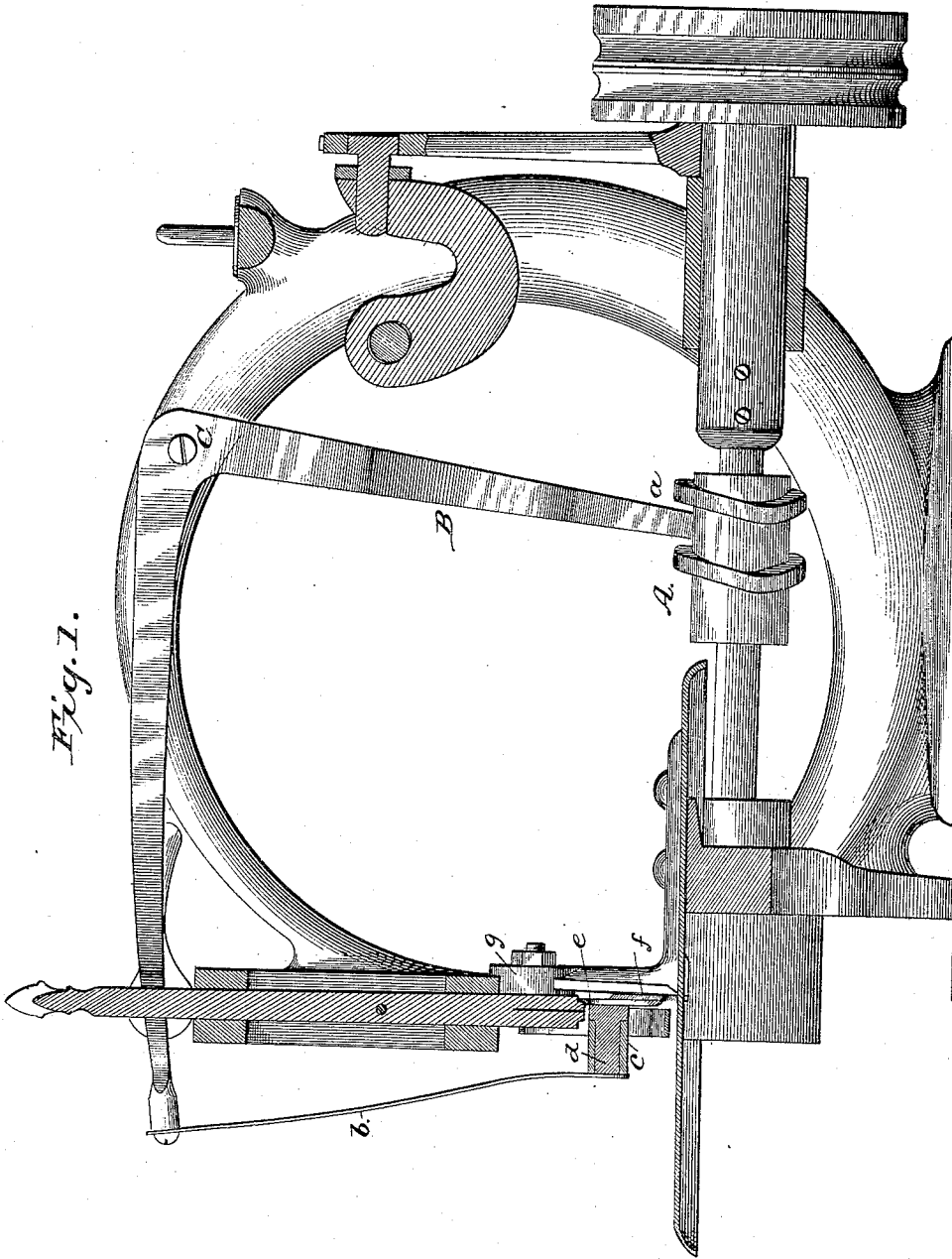


Fig. 1.

WITNESSES:

*Fred. L. Dieterich*  
*Jos. A. Ryan*

INVENTORS

*Elisha Smith Cram*  
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(Model.)

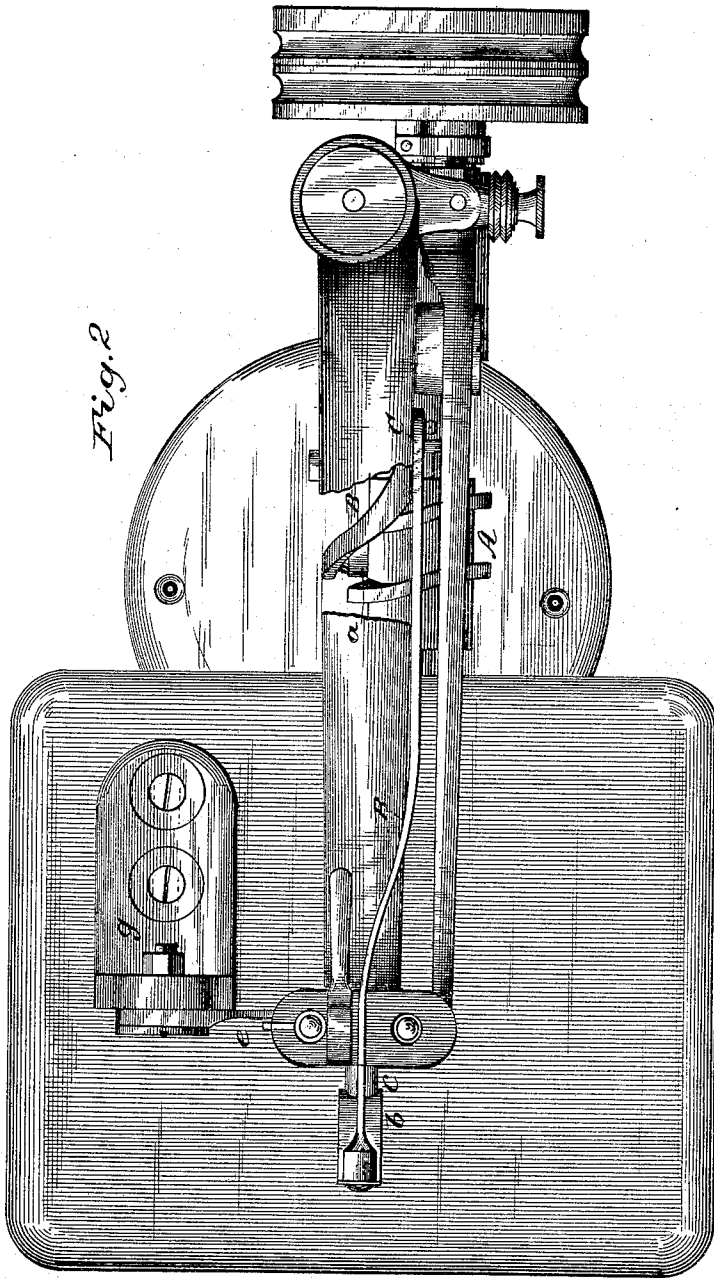
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*Fig. 2*

WITNESSES:

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# UNITED STATES PATENT OFFICE.

ELISHA SMITH CRAM AND EDGAR C. COVELL, OF LACONIA, N. H.

## MECHANISM FOR SEWING AND TRIMMING FABRICS.

SPECIFICATION forming part of Letters Patent No. 317,930, dated May 12, 1885.

Application filed January 29, 1885. (Model.)

*To all whom it may concern:*

Be it known that we, E. S. CRAM and E. C. COVELL, citizens of the United States, residing at Laconia, New Hampshire, have invented new and useful Mechanism for Sewing and Trimming Fabrics, of which the following is a specification.

Our invention relates to the construction, arrangement, and combination of mechanism for sewing and trimming fabrics, having for its object rapidity, accuracy, durability, and economy in operation and results for the purposes indicated.

The sewing-machine part of our invention may be that of any or all of the ordinary types of sewing-machines, and such machines are so well known as to make a detailed description thereof unnecessary, our invention being confined to the combination of such with our trimming device, hereinafter fully described.

In the drawings, Figure 1 represents a vertical sectional view showing the cam, working-arm, spring and link cutters, and their attachment to one type of sewing-machine. Fig. 2 shows a plan view looking down onto the top of the machine.

A represents the path-cam secured to the main shaft of the sewing-machine used for operating the cutters; B, the angle working arm or lever, which has a stud on its lower end, *a*, which works in the path of cam A, while its upper outer end is connected to the spring and link *b*. This spring and link *b* has on its

lower end a sleeve, *c*, which fits onto the stud *d*, which is secured to the upper blade or cutter, *e*.

*f* is the lower cutter, and is secured rigidly, but adjustably, to the bed of the sewing-machine. The arm or lever B works on a stud firmly attached to the arm of the sewing-machine at C. The upper blade or cutter, *e*, is hung by means of a stud to the stand *g*, which is secured to the sewing-machine plate with screws and slots for adjustment. This upper cutter, *e*, is so hung (as shown in the drawings) that from the commencement of and all through the cutting while it is falling it is drawing in the direction of the feeding of the sewing-machine feed. Its connection with the work arm or lever by means of the combined link and spring is such as to constantly press the cutting-edge of *e* against the edge of cutter *f*, and being attached at the extreme point of cutter *e* has much more power and cutting effect.

We claim—

The cam A, arm B, link and spring *b*, cutters *e* and *f*, and stand *g*, in combination with the sewing-machine mechanism, as and for the purposes shown and described.

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EDGAR C. COVELL.

Witnesses:

EMMA H. F. COVELL,  
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