W. GASKILL.

Hemming Gage for Sewing Machines.

No. 46,790. Patented March 14, 1865.

Fig. 1.

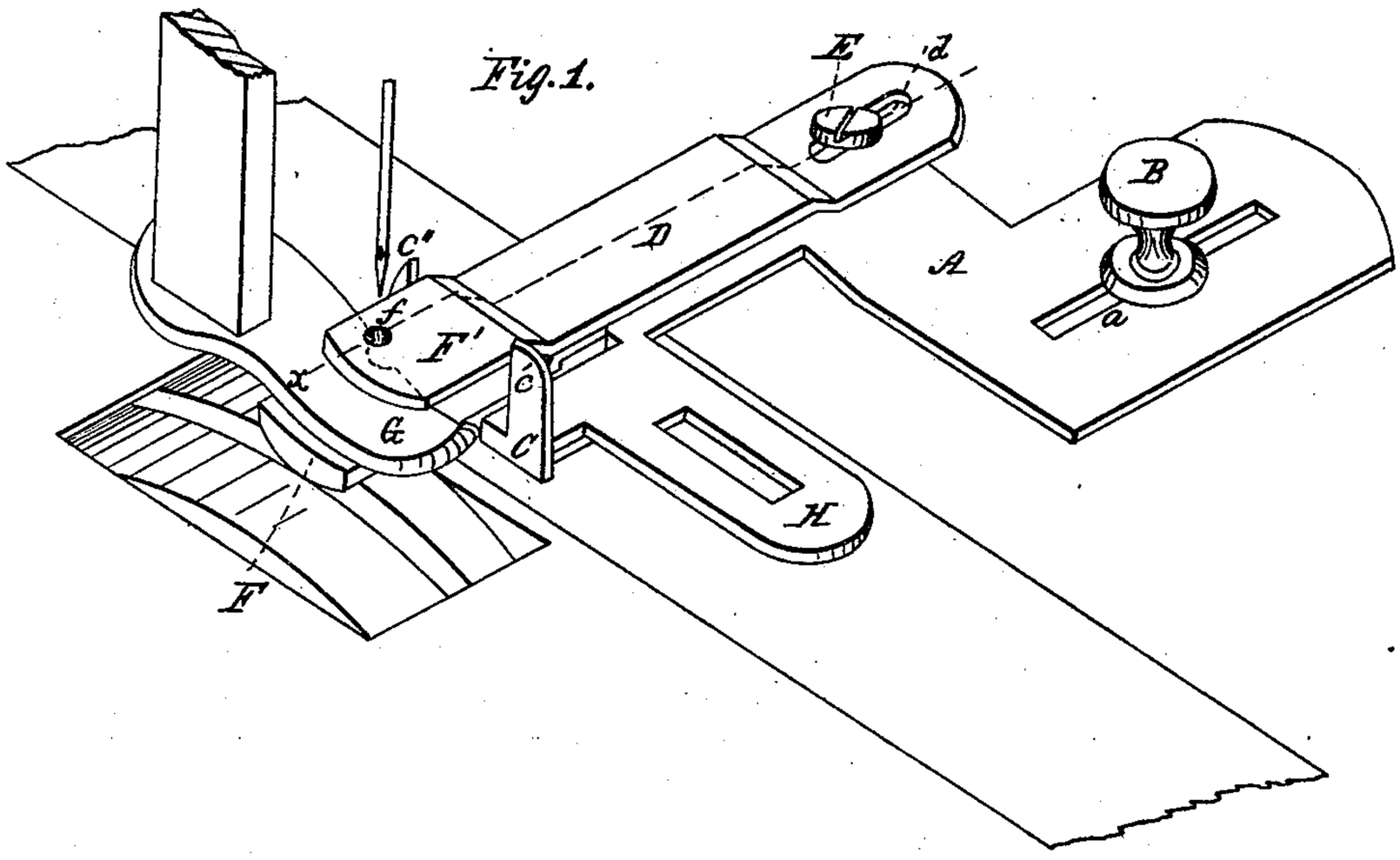


Fig. 3.

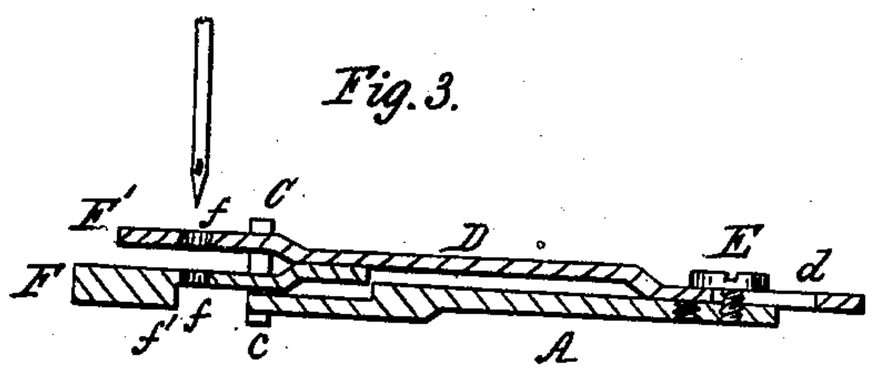
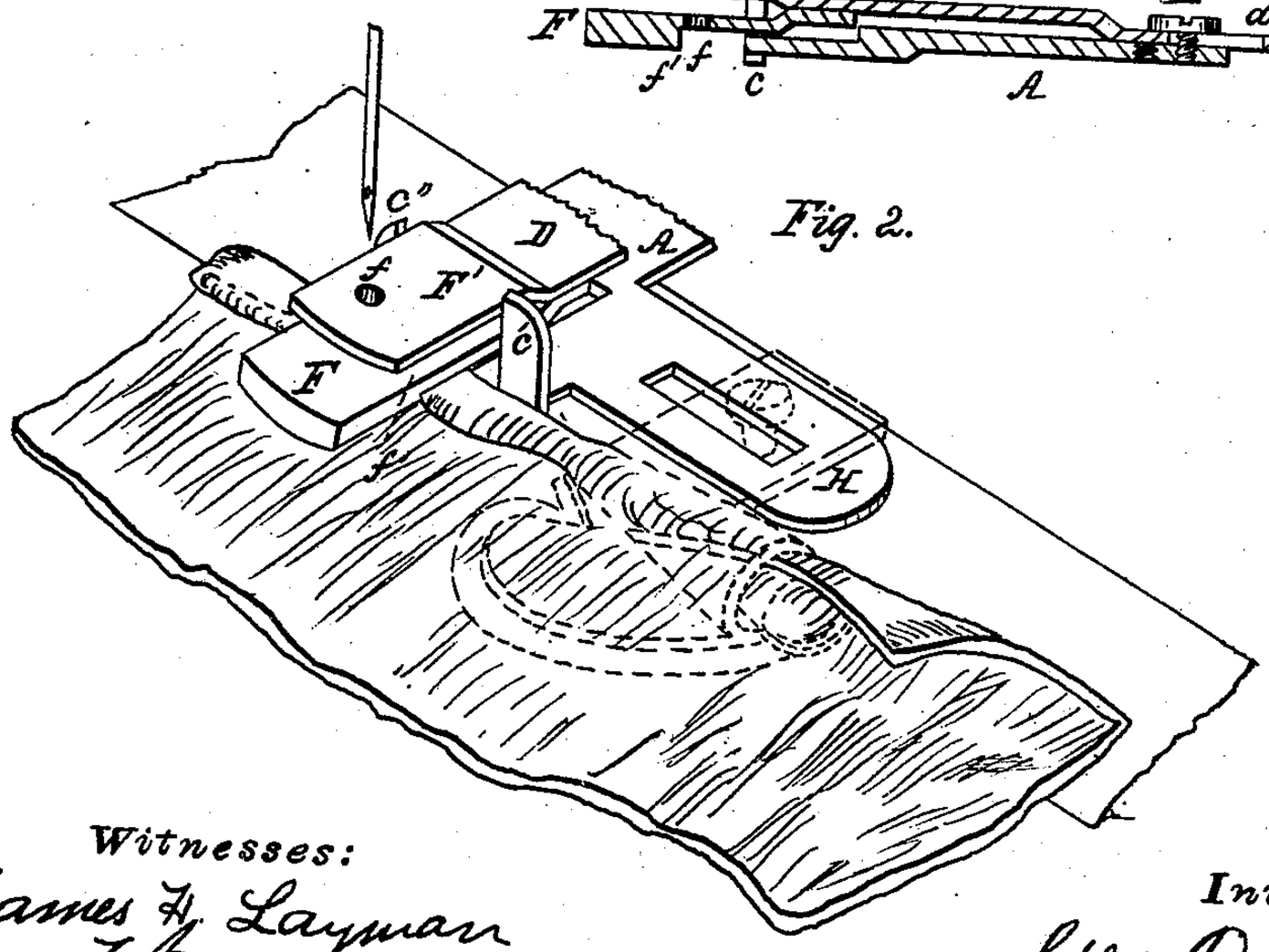


Fig. 2.



Witnesses:

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UNITED STATES PATENT OFFICE.

WILLIAM GASKILL, OF CINCINNATI, OHIO.

IMPROVEMENT IN HEMMING-GAGES FOR SEWING-MACHINES.

Specification forming part of Letters Patent No. **46,790**, dated March 14, 1865.

To all whom it may concern:

Be it known that I, WILLIAM GASKILL, of Cincinnati, Hamilton county, Ohio, have invented a new and useful Hemming-Gage 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 drawings, making part of this specification.

My invention relates to a yielding and adjustable hemming-gage for insuring a neat and uniform hem.

Figure 1 is a perspective view of my gage. Fig. 2 represents a portion thereof with the cloth in position. Fig. 3 is a section taken at the line *x x*, Fig. 1.

A is a foot-piece or base-plate, having a slot, *a*, for the reception of a thumb-screw, B, by which the said foot-piece is attached to the cloth-plate of a sewing-machine. From the portion of the foot-piece A which is nearest to the needle there projects a vertical flange, C, the lower part, *c*, of which serves as the outer gage or shoulder for the hem, while the upper part of said flange takes the form of a yoke, *c' c''*, which restrains the vibrations of my yielding tongue D to a vertical plane transverse to the path of the goods. The yielding tongue D has a slot, *d*, for the reception of a screw, E, by which the rear end of the tongue is made fast to the foot-piece A. The front or working end of the tongue D is bifurcated, so as to form two jaws, F F', which jaws have each of them a perforation, *f*, for the passage of the needle, and, when in use, inclose the pressure-foot G of the sewing-machine, with which foot they rise and fall, the lower jaw, F, being interposed between the pressure-foot and the stuff. The under side of the lower jaw, F, has a shoulder or offset, *f'*, which co-operates with the part *c* of the foot-piece to preserve any predetermined uniform width of hem, while that portion of the under surface of said jaw which for the time being intervenes between the parts *f'* and *c* acts to press and hold the hem in a flat and compact form for the action of the needle. The slots *a* and *b* enable the foot-piece to be set out or in, so as to make the distance between the shoulders *f* and *c* correspond with the desired width of hem.

H is a projection for the attachment of a hemming-scroll.

I have selected to illustrate my invention a form of hemming-gage which I have found to be efficient in practical operation in the manufacture of a great variety of heavy and refractory fabrics—such as army-canvas, duck, jeans, &c.—but do not desire to restrict the invention to the precise form herein described so long as the same result is attained by means substantially equivalent. For example, the upper jaw, F', may be so formed as to be wholly on one side of the needle, and thus need no perforation therefor; or said upper jaw may be superseded by imparting to the tongue D a sufficiently strong upward spring to cause it to press firmly against the underside of the pressure-foot.

I claim herein as new and of my invention—

1. The adjustable perforated and shouldered tongue D, adapted to rise and fall with the pressure-foot of a sewing-machine, in combination with the adjustable shouldered plate A, for the purpose of accurately gaging and neatly flattening the hem at the point and in the act of stitching, as set forth.

2. The parts A *a*, B, C *c c' c''*, D *d*, E, F *f f'*, and F', combined and co-operating in the manner stated.

In testimony of which invention I hereunto set my hand.

WILLIAM GASKILL.

Witnesses:

GEO. H. KNIGHT,

JAMES H. LAYMAN.