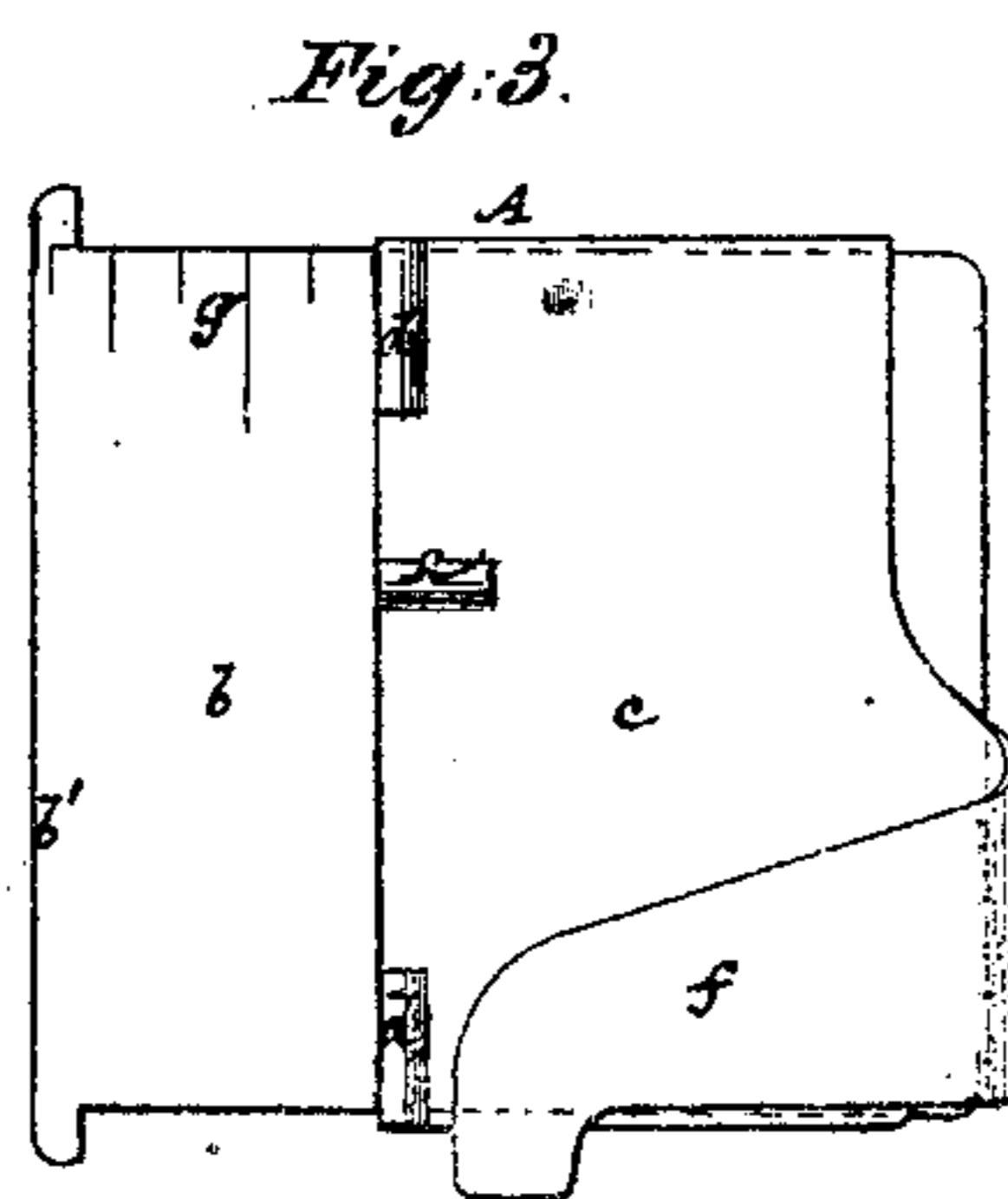
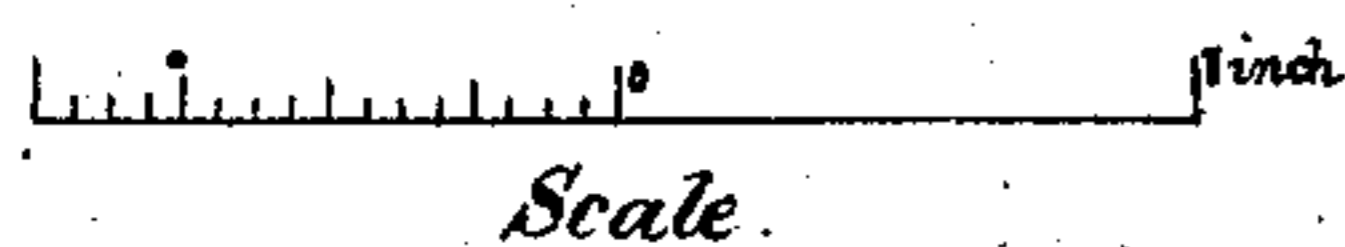
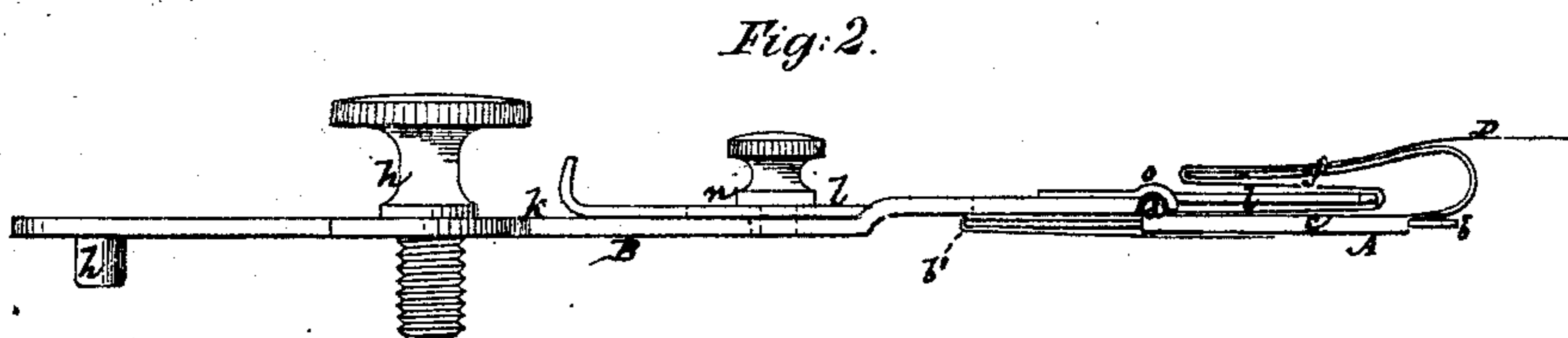
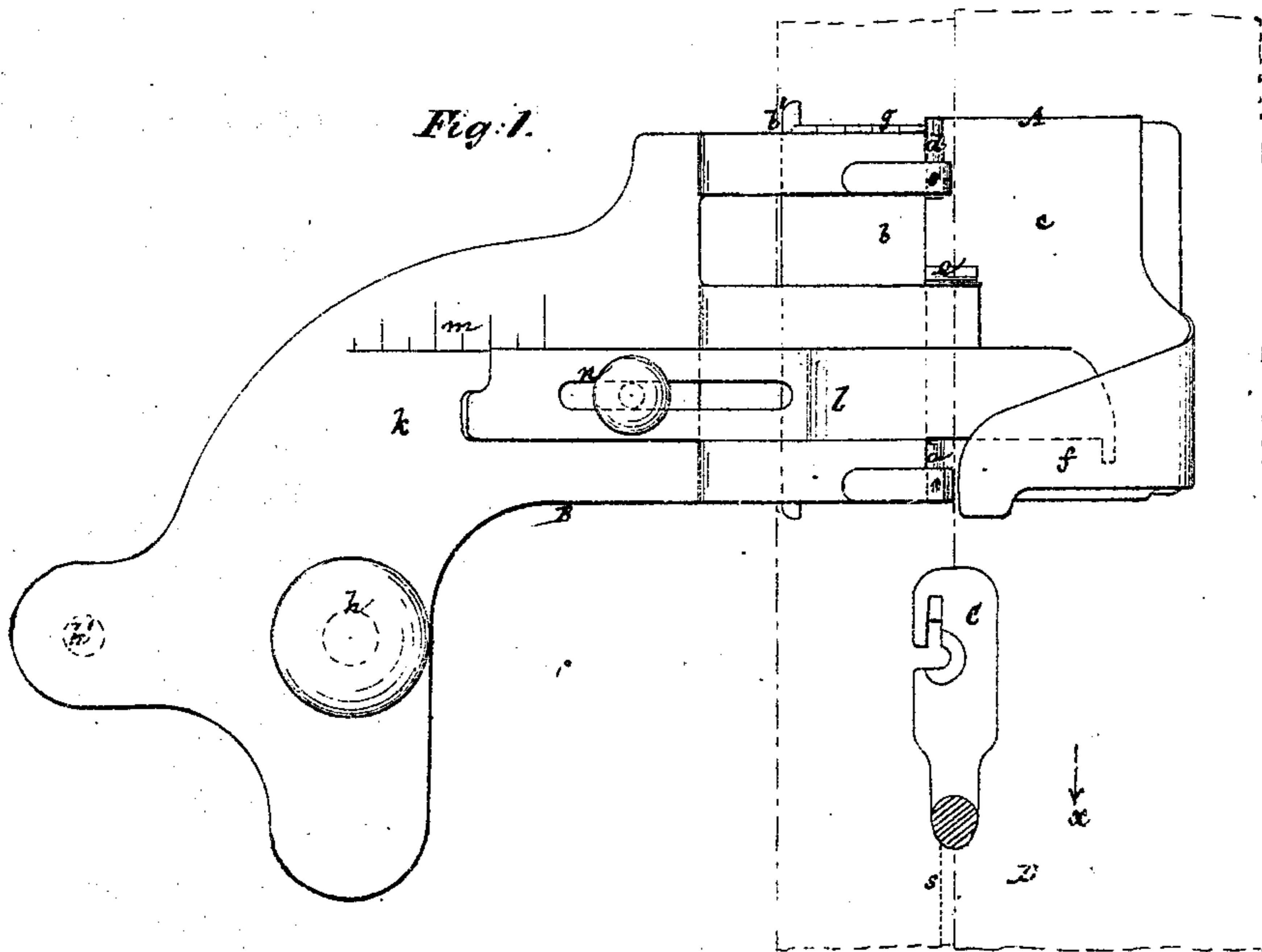


OSCAR D. & EDWIN C. WOODBURY.
 Improvement in Tuck Folder for Sewing Machines.
 No. 121,699. Patented Dec. 5, 1871.



Witnesses:
 Geo Haynes
 R. H. Babcock

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UNITED STATES PATENT OFFICE.

OSCAR D. WOODBURY AND EDWIN C. WOODBURY, OF NEW YORK, N. Y.

IMPROVEMENT IN TUCK-FOLDERS FOR SEWING-MACHINES.

Specification forming part of Letters Patent No. 121,699, dated December 5, 1871.

To all whom it may concern:

Be it known that we, OSCAR D. WOODBURY and EDWIN C. WOODBURY, of the city, county, and State of New York, have invented a new and useful Improvement in Tuck-Folders, of which the following is a full, clear, and exact description, reference being had to the accompanying drawing forming part of this specification, and in which—

Figure 1 represents a plan of our improved tuck-folder under one of its forms or modifications, with the presser-foot of a sewing-machine applied in proper relation thereto, and showing by dotted lines a piece of cloth in the act of having a tuck folded in or on it. Fig. 2 is a side view of the same, and Fig. 3 a plan of a loose gauge or folder forming one part of the invention.

Similar letters of reference indicate corresponding parts throughout the several figures of the drawing.

This invention, which is applicable to sewing-machines of different kinds, consists of a loose gauge or folder entered between the cloth on the bed or table of the machine, in combination with an outside holder having the folded cloth interposed between it and the folder, with facility for feed of the cloth between them. Said loose piece and outside holder may be constructed so as to use a tuck previously made as a gauge for folding, or so as to sew the tuck being folded and gauged from the tuck previously sewed. It is preferred, however, to construct them so as to use a tuck previously made for folding, and such is the construction that will here be described; and the invention furthermore consists in a special construction of such devices separately for the said purpose; likewise, in a combination of the same.

A in the drawing is the loose gauge or folder, formed of a plate, *b*, and a slide, *c*, the latter being adjustable toward and from the front edge *b'* of the plate, according to the width of tuck required, and being provided in front with stops or projections *d d* and *e*, and at its rear side to the presser-foot, when in place, with a tongue or wing, *f*, joined to the slide in its rear, but open in front and projecting or lying over the slide. The adjustment of the slide may be regulated by a scale, *g*. B is the loose piece or folder-holder, which is designed to be secured to the bed or table of the sewing-machine in rear of the presser-foot C, as by a screw, *h*, and projection *h'*. Said

device consists, generally, of a plate, *k*, and slide *l*, the plate forming the piece of attachment to the table and the slide *l* a finger or wing, which is adjustable in or out from the forward end of the plate beneath the tongue or wing *f* of the folder A, according to the space between the tucks and the width of tuck required, and in conformity with the adjustment of the slide *c* of said piece A, or rather of the plate *b* relatively to the slide *c*. The adjustment of the slide *l* may be regulated by a scale, *m*, a slot and screw, *n*, serving to effect the adjustment. The forward portions of the plate *k* and slide *l* are bent so as to occupy a raised position from the surface of the table to receive freely between them and the table the body of the slide *c* and plate *b*, together with the cloth, as hereinafter described. At the front end of the plate *k* are eyes or loops *o o* for the projections *d d* of the plate *c*, with the interposed cloth, to lock with or fit into, said projections acting as stops in a transverse direction to the line of stitch, and the stop *e* bearing against a slotted or other portion of the plate *k* to keep the folder A from being drawn by the feed along with the cloth D, which is fed in direction of the arrow *x*, the letter *s* representing the line of stitch, and the tuck-folding portions of the device, as a whole, lying in proximity to the toe of the presser-foot C, as represented in Fig. 1. The first tuck or fold in the cloth is made by turning the edge of the cloth or other fabric down over the forward edge *b'* of the folder A, and then, with the body of the cloth lying loosely over said device, and holding onto the under-turned portion of the cloth, introducing such device and cloth over the table and under the forward portion of the folder-holder B, with the stops *d d* a little to one side of the loops *o o*, and so that on pushing the folder A toward the presser-foot till arrested by the stop *e* the stops *d d* are caused to enter the loops *o o*. In thus fitting the folder A to its place the slide *l* projects a portion of the body of the cloth under the tongue or wing *f*, thereby forming a second fold or upper-tuck as the cloth is fed through the devices A and B, the presser-foot C operating to complete the crease produced by the fold of the cloth at the free end of the wing *f*, as well as to hold the cloth in the line of stitching, which latter is outside of but in proximity to the folded edge of the upper tuck as it comes from the free end of the wing *f*. To fold another or

succeeding tuck a like application of the devices A and B is made to an adjacent portion of the body of the cloth by entering the folder A within the crease previously formed by the free end of the wing *f*, and projecting said device and cloth into fit with the holder B and its slide *l*, as described, and forming a new line of stitching in proximity to the new fold, which stitching will serve to secure the tuck first folded by *f* and *l* combined. By the adjustment in or out of the slide *l* and plate *b* the width of the tuck is increased or diminished, as required.

What is here claimed, and desired to be secured by Letters Patent, is—

1. The combination of a loose gauge and folder for operation within the fold or tuck with a folder-holder on the outside of the cloth, when said devices are constructed to admit of the travel of the folded cloth between them, substantially as specified.

2. The folder A constructed of a plate, *b*, and slide *c*, provided with stops *d d e* and an overhanging tongue or wing *f*, essentially as described.

3. The folder-holder B constructed of a plate, *k*, bent or raised in front, as described, and formed with loops or eyes *o o*, in combination with the adjustable finger or slide *l*, substantially as specified.

4. The combination of the folder A having an overhanging tongue or wing, *f*, with the folder-holder B having a forwardly-projecting finger or slide, *l*, for operation in relation with the wing *f* and cloth or fabric interposed between them, substantially as specified.

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Witnesses:

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