

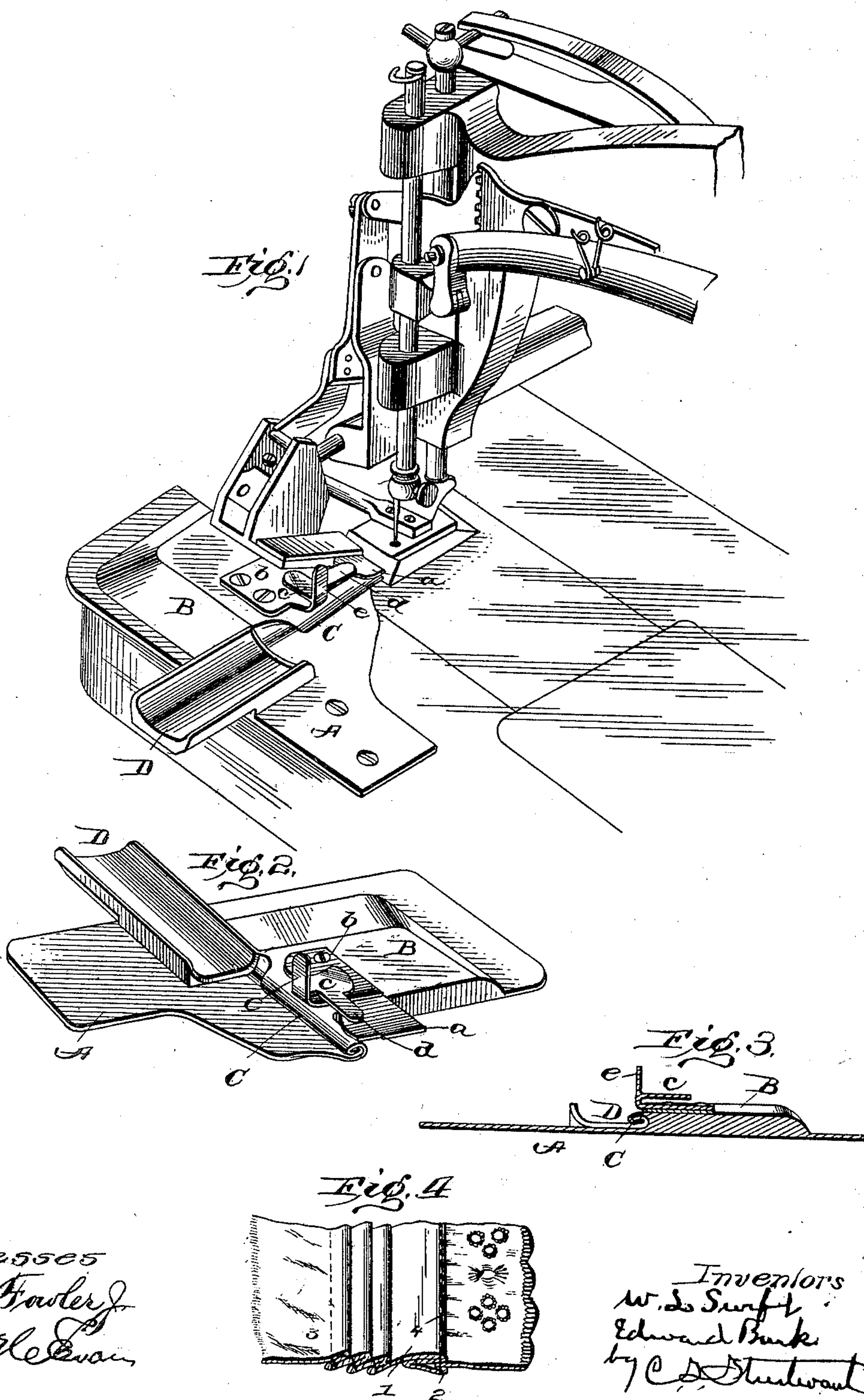
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Patented Aug. 5, 1902.

W. L. SWIFT & E. BURK.
FOLDER FOR SEWING MACHINES.

(Application filed Mar. 5, 1901.)

(No Model.)



Witnesses
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UNITED STATES PATENT OFFICE.

WILBUR L. SWIFT AND EDWARD BURK, OF NEW YORK, N. Y., ASSIGNORS
TO THE UNION SPECIAL SEWING MACHINE COMPANY, OF CHICAGO,
ILLINOIS, A CORPORATION OF ILLINOIS.

FOLDER FOR SEWING-MACHINES.

SPECIFICATION forming part of Letters Patent No. 706,278, dated August 5, 1902.

Application filed March 5, 1901. Serial No. 49,725. (No model.)

To all whom it may concern:

Be it known that we, WILBUR L. SWIFT and EDWARD BURK, citizens of the United States, residing at New York, in the county of New York, State of New York, have invented certain new and useful Improvements in Folders for Sewing-Machines, of which the following is a description, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon.

Our invention relates to an improvement in folding-guides for sewing-machines, the object being particularly to provide a folding-guide for attachment to a single-needle-yoke-ruffling machine of the Union Special type for putting the ruffle on the bottom of the legs of ladies' drawers or other garments.

In the use of this invention the body portion of the fabric is first plaited and stitched. Then the raw edge below the plait is folded, the piece to be ruffled inserted between the plait and the folded edge, and the parts fed to the sewing mechanism, which passes a row of stitches through the edge of the plait, the edge of the ruffle, and the fold in the body portion, thereby neatly and firmly securing the parts together.

The invention therefore consists in the matters hereinafter described, and referred to in the appended claims.

The invention is illustrated in the accompanying drawings, in which—

Figure 1 is a perspective view of so much of a sewing and ruffling machine as is necessary to a complete understanding of our invention. Fig. 2 is a detail view of the folding-guide detached. Fig. 3 is a cross-section of Fig. 2, and Fig. 4 is a detail view of the work done on this machine with folder attached.

In the drawings the machine shown is of the type known as the "Union Special Single-Needle Yoke-Ruffling Machine" and need not be herein specifically described.

The folding-guide as a whole comprises a base-piece A, secured to the cloth-plate of the machine. It has a raised portion B, to which the stripper-plate *a* is secured, and by the same screws which hold the stripper-plate is also attached a plate *b*, bent to form a guid-

ing-recess *c* for the edge of the fabric to be ruffled, and it has a forwardly-projecting spring-tongue *d* and the vertically-projecting lip *e*. Herein shown as formed on the plate A and projecting from the raised portion B is a folding and guiding recess C, which gradually tapers in width to a point adjacent the needle. Secured to or forming a part of the base-plate in advance of the folding-recess C and in line therewith, the recess C and recess *c* being made to overlap, is a trough-shaped recess D.

In operation in the use of this invention if a ruffled edging is to be applied to a garment—as, for example, to the bottoms of the legs of ladies' drawers—the plait 1 in the body of fabric is stitched on another machine. Then the plait 1 and the raw edge 2 beneath the same are laid in the trough D, the raw edge being first inserted in the recess C and the plait guided against the vertical lip *e* and the edge of the fabric to be ruffled being placed in the recess *c*. Then as the feed goes on the raw edge 2 has a hem turned inwardly, the plait 1 is guided by the lip *e*, the fabric 3 by the recess *c* and spring-tongue *d*, and are united by a row of stitches 4, passing through the edge of the plait 1, the edge of the fabric 3, and the folded raw edge 2, the fabric 3 being ruffled just before the sewing operation takes place.

By the use of the trough D the operator can simply rest one finger therein lightly on top of the plait and have the other hand free to guide the fabric to be ruffled, the use of the guiding-trough in which the goods are thus lightly held rendering it possible with the guiding-recess C and lip *e* to properly direct the plait and bottom edge of the fabric with no difficulty, whereby the plait may be laid, the raw bottom edge hemmed, and the ornamental fabric ruffled, and the parts all stitched together on the same machine and in one continuous operation.

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

1. The herein-described folding-guide for ruffling and sewing machines, comprising a

folding and guiding recess, a guiding-lip and a guiding-recess opposed to the first folding and guiding recess, whereby the raw edge of a plaited fabric may be folded and guided, 5 the plait guided by the lip, and the edge of the fabric to be ruffled guided in the recess; substantially as described.

2. The herein-described folding-guide for sewing-machines, comprising a lower folding 10 and guiding recess, a vertically-extending guiding-lip, and a guiding-recess above said folding and guiding recess and opposed thereto, whereby the raw edge of a plaited fabric may be folded and guided, the plait guided 15 by the lip and the edge of the other fabric guided in the recess; substantially as described.

3. The herein-described folding-guide for ruffling and sewing machines, comprising a 20 folding and guiding recess, a guiding-lip and a guiding-recess opposed to the first folding and guiding recess, and a forwardly-projecting spring-tongue whereby the raw edge

of a plaited fabric may be folded and guided, the plait guided by the lip, and the edge of 25 the fabric to be ruffled guided in the recess; substantially as described.

4. The herein-described folding-guide for ruffling and sewing machines, comprising a folding and guiding recess, a guiding-lip and 30 a guiding-recess opposed to the first folding and guiding recess, whereby the raw edge of a plaited fabric may be folded and guided, the plait guided by the lip, and the edge of the fabric to be ruffled guided in the recess, 35 and a trough-shaped recess arranged in advance of the folding-guide; substantially as described.

In testimony whereof we affix our signatures in presence of witnesses.

WILBUR L. SWIFT.
EDWARD BURK.

Witnesses:

F. A. NORTH,
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