





# UNITED STATES PATENT OFFICE.

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## TUCK-FOLDING GUIDE FOR SEWING-MACHINES.

SPECIFICATION forming part of Letters Patent No. 740,643, dated October 6, 1903.

Application filed June 23, 1902; Serial No. 112,796. (No model.)

*To all whom it may concern:*

Be it known that I, JOHN M. GREIST, a citizen of the United States, residing at New Haven, in the county of New Haven and State of Connecticut, have invented certain new and useful Improvements in Tucking-Guides or Tuck-Folders for Sewing-Machines, of which the following is a specification, reference being had therein to the accompanying drawings.

This invention relates to that class of sewing-machine attachments by the use of which a series of parallel plaits or tucks may be formed in a garment on a sewing-machine; and the invention has for its object to provide a sewing-machine plaiting or tucking guide which is simple in construction and convenient for use and which is readily adapted for forming tucks of any desired width or any desired distance apart.

In the accompanying drawings, Figure 1 is a perspective view illustrating the use of my improved tuck-folder or tucking-guide. Fig. 2 is a detail perspective view of the attachment. Fig. 3 is a front-edge view of the same. Figs. 4 and 5 are detail plan and sectional views, respectively, of the base-plate or support for the attachment and which is to be secured to the work-plate of a sewing-machine.

Referring to the drawings, A denotes the base-plate or support for the attachment, provided with a longitudinal slot for the passage of a set-screw  $a$  for adjustably securing the same to the work-plate of a sewing-machine. The base-plate A is preferably formed of a single piece of metal, which is turned over to form a clamping-ear  $a'$ , provided with a set-screw  $a^2$ .

B is a half-round bar supported upon and clamped in the ear  $a'$  of the base-plate, and serves in turn to support the fold-guide and tuck-guide, and is preferably provided with gages to indicate positions of adjustment of the said guides.

C is a guide for the folded edge of the fabric which is to be stitched to form the tuck or plait, said guide being provided with a turned-over clamping-ear  $c$ , provided with a threaded stud furnished with a set-nut  $c'$ , by means of which said guide may be secured in any desired position of adjustment on the

bar B, passing through the said clamping-ear  $c$ . The said guide C is also preferably provided with a laterally extended smoothing-plate  $c^2$ , arranged parallel to the guide-supporting gage-bar B, or approximately so.

D is the guide which is to engage the plait or tuck last formed and the position of adjustment of which therefore determines the distance apart of the plaits or tucks, the said guide D having a clamping-ear  $d$ , surrounding the half-round bar B, and the said ear being provided with a threaded stud furnished with a clamping set-nut  $d'$ .

The bar B is provided with what may be termed a "base-line" or "base-mark"  $b$ , and the said bar is to be secured in the clamping-ear  $a'$  on the base-plate in such position that the said base-line or base-mark will be directly in front of the needle of the sewing-machine. To the right of the base-line or base-mark  $b$  the bar B is provided with a gage  $b'$ , over which the clamping-ear  $c$  is movable and which gage is to indicate the position of adjustment of the fold-guide C to determine the width of the plaits or tucks to be formed. To the left of the base-line or base-mark  $b$  the bar B is provided with a second gage  $b^2$ , which is to be employed, in connection with the clamping-ear  $d$  of the tuck-guide D, to determine the width apart of the tucks or plaits.

My improved plaiter or tucking-guide is intended for use with different kinds of sewing-machines the work-plate screws of which are of different sizes. To adapt the attachment for use either on a sewing-machine having a large work-plate screw or a smaller work-plate screw, the base-plate A is provided with a removable cap  $A'$ . In the present instance the metal surrounding the slot  $a^4$  in said base-plate is struck up from the bottom of the said base-plate, forming an encircling raised portion around the said slot, and the removable cap  $A'$  in the construction herein shown is provided with two depending lugs  $a^3$ , hooked to embrace the bottom of the struck-up metal surrounding the slot in the base-plate in such a manner that said cap may be sprung into holding engagement with the base-plate or may be removed therefrom when not desired for use. The slot in the cap  $A'$  is narrower than the underlying slot in the base-plate A, (said last-named slot being de-



noted by dotted lines in Fig. 4,) so that a work-plate screw of smaller size than could be used with the width of slot in the base-plate may be employed when the base-plate is provided with a cap having a narrower slot than the slot in the base-plate and the sides of which narrower slot will afford bearing-surfaces for a set-screw having a shoulder so narrow that it might pass through the wider slot in the base-plate A.

The operation of the invention is essentially the same as the operation of plaiters or tucking-guides now in use, and the manner of adjusting and using my improved tucking or plaiting guide will be readily understood from the foregoing description and accompanying drawings.

The invention is not to be understood as being limited in all of its details to the constructions herein shown and described. For example, while the guide-supporting gage-bar B is preferably formed half-round, as shown and described, it need not necessarily be of this form, as it might be round, oval, or rectangular or of other form in cross-section; also, the forms of the fold-guide C and the plait or tuck guide D might be varied somewhat without departing from the essence of the invention; also, the removable cap for the base-plate might be applied to base-plates employed for securing hemmers, binders, guides, or other sewing-machine attachments to the work-plates of sewing-machines.

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

1. A sewing-machine tucking-guide or tuck-folder comprising a base-plate, a guide-supporting gage-bar adjustably and removably secured to said base-plate, said gage-bar having a base-mark to be brought directly in front of the needle of the machine, a guide for the edge of the fold to be stitched, and a guide for the stitched fold or tuck, said guides

being both provided with turned-over clamping-ears by which they may be adjustably secured to said gage-bar.

2. A sewing-machine tucking-guide or tuck-folder comprising a base-plate, a guide-supporting gage-bar adjustably secured to said base-plate, said gage-bar having a base-mark to be brought directly in front of the needle of the machine, a guide for the edge of the fold to be stitched adjustably secured to said guide-supporting gage-bar, and a guide for the stitched fold or tuck also adjustably secured to said bar, said base-plate being provided with a turned-over clamping-ear for the adjustable attachment of the said guide-supporting gage-bar.

3. A sewing-machine tucking-guide or tuck-folder comprising a base-plate, a guide-supporting gage-bar adjustably secured to said base-plate, a guide for the edge of the fold to be stitched adjustably secured to said bar, and a guide for the stitched fold or tuck also adjustably secured to said bar, the said base-plate being provided with a slot and having removably attached thereto a superposed cap having a slot narrower than the slot in the said base-plate.

4. A sewing-machine tucking-guide or tuck-folder comprising a slotted base-plate A provided with a clamping-ear *a'*, a guide-supporting gage-bar B supported in said clamping-ear and provided with suitable gage-marks, a fold-guide C and a tuck-guide D each having a clamping-ear surrounding said bar for adjustable attachment thereto, said fold-guide being provided with a laterally-extending smoothing-plate *c*<sup>2</sup>.

In testimony whereof I affix my signature in presence of two witnesses.

JOHN M. GREIST.

Witnesses:

W. C. GREIST,  
P. R. GREIST.