

M. MILLER, J. BLIDEN & M. SMITH.
SEWING MACHINE ATTACHMENT.
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1,048,720.

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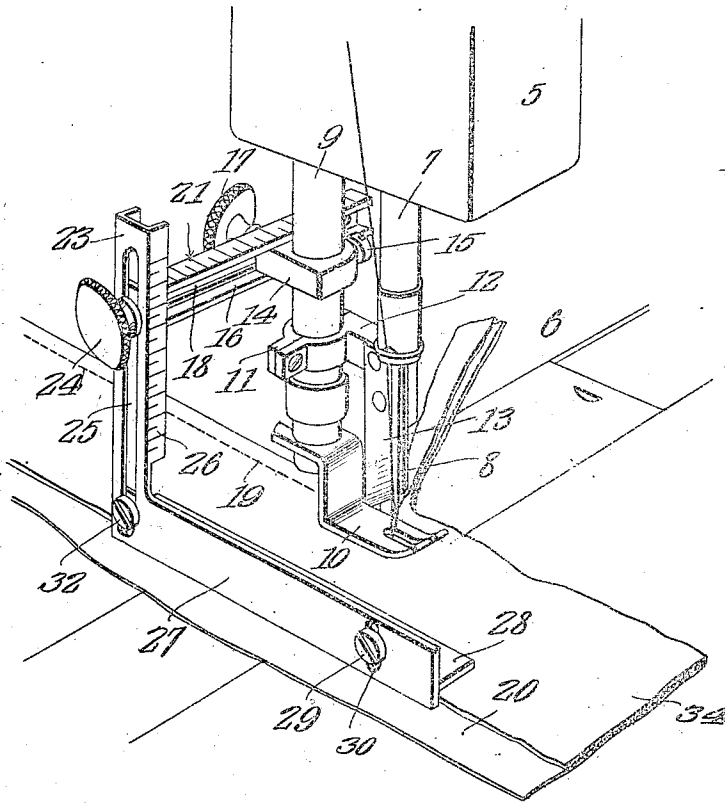


Fig. 1.

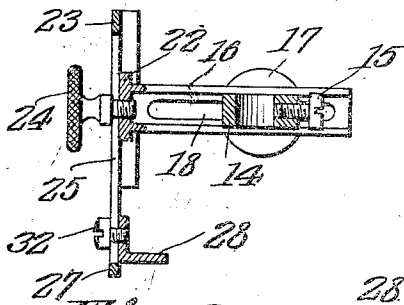


Fig. 2.

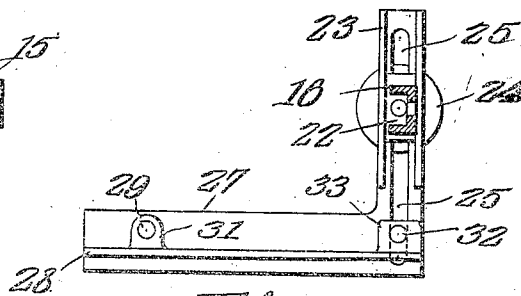


Fig. 3.

WITNESSES
F. B. Woodew.
C. Walton Brevington.

Moses Miller,
Jacob Bliden,
Myer Smith,
By Henry J. Brevington, Attorney

INVENTORS

UNITED STATES PATENT OFFICE.

MOSES MILLER, JACOB BLIDEN, AND MYER SMITH, OF BALTIMORE, MARYLAND.

SEWING-MACHINE ATTACHMENT.

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Specification of Letters Patent.

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To all whom it may concern:

Be it known that we, MOSES MILLER, JACOB BLIDEN, and MYER SMITH, citizens of the United States, residing at Baltimore city, State of Maryland, have invented certain new and useful Improvements in Sewing-Machine Attachments, of which the following is a specification.

This invention relates to attachments for sewing machines and has for its object to provide an improved attachment in the nature of a guide or gage for insuring a uniform width of material between the seam and the edge thereof, whether the seam is in a hem or otherwise, such improved attachment being adapted for operation either with or without a trimming knife, and also adapted for attachment to the machine in such manner as to gage or guide either the right or left hand edge of the material being operated upon.

With these objects in view, the invention consists in the improved construction, arrangement and combination of the parts of an attachment of the character specified which will be hereinafter fully described and afterward specifically claimed.

In order that the construction and operation of our invention may be readily comprehended by those skilled in the art to which it appertains, we have illustrated a preferred embodiment thereof in the accompanying drawing, and will now proceed to specifically describe the invention in connection with said drawing in which—

Figure 1 represents a perspective view of the invention and so much of a sewing machine to which it is attached as is necessary to an understanding of it; Fig. 2 represents a detail sectional view, and Fig. 3 represents a detail, sectional view on a plane at a right angle to that of Fig. 2.

Like reference characters mark the same parts wherever they occur in any of the figures of the drawing.

Referring specifically to the drawing by reference characters, 5 indicates the head, 6 the table, 7 the needle bar, 8 the needle, 9 the presser bar and 10 the presser foot, all of any approved pattern or construction.

To the presser bar is attached, by means of a clamp 11, a horizontal bar 12 which carries a trimming knife 13 of any approved construction.

Upon the presser bar 9 is slidably mount-

ed a sleeve or block 14 securable at any desired height on the presser bar by a set-screw 15, which block projects rearwardly into the trough of a trough-shaped horizontal bar 16, and said bar is securable to the block 14 at any desired point in the length of the bar, by means of a set screw 17 passing through a longitudinal slot 18 in said bar, and into said block 14. The adjustment of the bar 16 on the block 14 determines the distance of the seam 19 from the edge of the fabric being stitched and this distance can be accurately adjusted by means of a graduated scale 21 on the upper face of the bar 16. The outer end of the bar 16 is closed by an integral end plate 22 (Fig. 2) which is fitted to slide in the trough of a vertical trough-shaped bar 23 and said vertical bar is securable at any point in its height to the plate 22 of the bar 16, by means of a set screw 24, which passes through a vertical slot 25 of the bar 23 and is threaded into the end plate 22 of the graduated bar 16. The adjustment of the vertical bar 23 on the bar 16 determines the height of the bearing plate of the guide or gage from the table and this distance may be accurately adjusted by means of a graduated scale 26 on the front face of the bar 23.

Rigidly secured to the bottom of the vertical bar 23 is a forwardly projecting foot 27 which sets vertically at such a distance from the table as may be determined by the adjustments heretofore described and on the inner face of said foot 27 is secured a horizontal bearing plate 28 which is adjustably secured to said foot 27 by means of a set screw 29 passed through a vertical slot 30 in the foot and threaded into a vertical ear 31 on the bearing plate, and a set screw 32 passed through the lower portion of the slot 25 of the vertical bar 23 and threaded into another vertical ear 33 on the bearing plate. By means of the set screws 29 and 32, the difference in height of the bottom of the foot 27 and the bearing plate 28 is accurately adjusted to the difference in thickness of materials, as indicated by the material 20 under the bearing plate and the material 34 under the foot. The foot 27 serves as a bearing for the edge of the material 20 and causes the seam 19 to be made at a uniform distance from said edge, and the bearing plate 28 prevents the edge of said material from doubling up.

The trimming knife 13 is reciprocated with the presser foot in the usual feeding operation and, in conjunction with the gage, serves to cut off from the material a strip of uniform width in which the seam 19 is made, the distance of the seam from the outer edge being always uniform as described, and the distance of the seam from the trimmed edge being also uniform, the width of the severed strip must also be uniform.

It will be obvious that slight changes and variations may be made in the precise constructions described, without departing from the spirit and scope of the invention as defined in the claims.

Having thus fully described our invention, what we claim as new and desire to secure by Letters Patent of the United States, is:—

1. An attachment of the character described comprising a block slidable on the presser bar of a sewing machine, means for securing it at any desired height thereon, a horizontal graduated bar, means for securing it at any desired point in its length to the block, and a guide foot vertically adjustable on the horizontal graduated bar; a bearing plate adjustable vertically on the guide foot either in or out of a horizontal plane.

2. An attachment of the character described comprising a block slidable on the presser bar of a sewing machine, means for securing it at any desired height thereon, a horizontal graduated bar, means for securing it at any desired point in its length to the block; a vertical graduated bar, means for securing it at any point in its height to the horizontal graduated bar, a guide foot and a horizontal bearing plate vertically

adjustable thereon either in or out of a horizontal plane.

3. An attachment of the character described comprising a block slidable on the presser bar of a sewing machine, means for securing it at any desired height thereon, a horizontal graduated bar, means for securing it at any desired point in its length to the block, a vertical graduated bar, means for securing it at any point in its height to the horizontal graduated bar; and an integral forwardly projecting foot carried by the vertical graduated bar, a horizontal bearing plate, means for adjustably securing each end of the bearing plate to the foot.

4. An attachment of the character described comprising a horizontal trough-shaped, longitudinally-slotted, graduated bar provided with an end plate, a block adapted to be vertically adjusted on the presser foot of a sewing machine and projecting into the trough of the bar, a set screw projected through the slot of bar, a vertical, trough-shaped, longitudinally-slotted, graduated bar embracing the end plate of the horizontal bar, a set screw projected through the slot of the vertical bar and threaded into the end plate of the horizontal bar, an integral, forwardly projecting foot on the vertical bar, and a bearing plate adjustably secured to said foot.

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

MOSES MILLER.

JACOB ^{his} BLIDEN.

^{mark}MYER SMITH.

Witnesses:

E. WALTON BREWINGTON,
MARY M. MAGRAW.