No. 879,621. PATENTED FEB. 18, 1908.

J. F. FOSCHINBAUR.

FOLDING GUIDE FOR SEWING MACHINES.

APPLICATION FILED APR. 19, 1898.

Fig. 2.

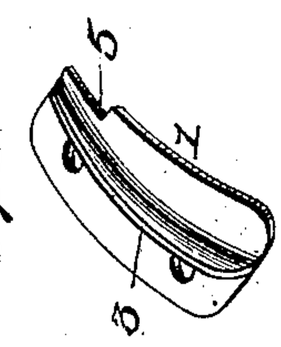


Fig. 3.

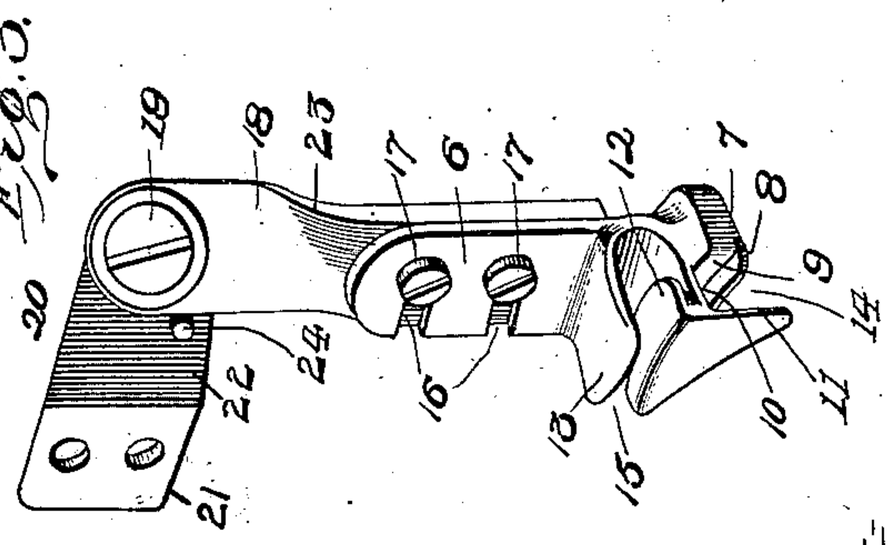
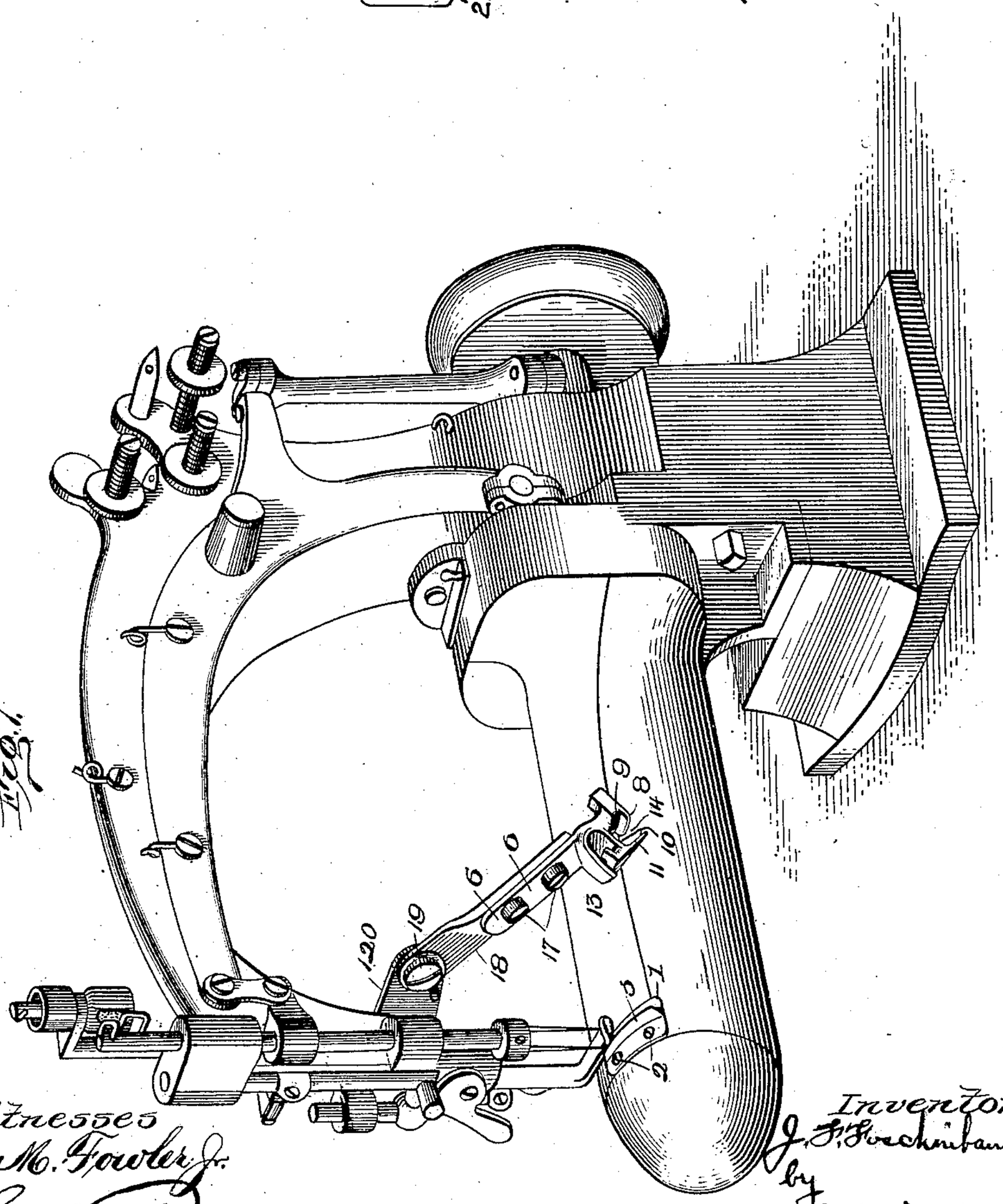


Fig. 1.



Witnesses
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UNITED STATES PATENT OFFICE.

JOSEPH F. FOSCHINBAUR, OF RIDGELAND, ILLINOIS, ASSIGNOR TO THE UNION SPECIAL SEWING MACHINE COMPANY, OF CHICAGO, ILLINOIS, A CORPORATION OF ILLINOIS.

FOLDING GUIDE FOR SEWING-MACHINES.

No. 879,621. Specification of Letters Patent. Patented Feb. 18, 1908.

Application filed April 19, 1898. Serial No. 678,129.

To all whom it may concern:

Be it known that I, JOSEPH F. FOSCHINBAUR, a citizen of the United States, residing at Ridgeland, in the county of Cook, State of Illinois, have invented certain new and useful Improvements in Folding Guides for Sewing-Machines, of which the following is a description, reference being had to the accompanying drawing and to the letters and figures of reference marked thereon.

The present invention relates to an improvement in folding guides for attachment to sewing machines and the object especially is to provide a double folding device for attachment to a sewing machine having a cylindrical bed plate or horn shaped work plate, and adapted especially for the sewing of tubular articles.

As herein illustrated the folder is especially adapted for use in sewing sleeves to coats, the coat sleeve being drawn up on the cylinder, that portion of the folder which is hinged to the frame of the machine being then swung down into position and the edge of the sleeve inserted in its guide, and then the body of the coat or the part to which the sleeve is to be joined is placed in its guide and in the feed of the machine the parts are folded and stitched.

The invention comprises primarily a folder pivoted to the machine frame in such a manner that it has a combined upward and sidewise movement.

Further objects of my invention will in part be obvious and will in part be hereinafter more fully set forth.

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

Figure 1 is an end perspective view of a cylinder sewing machine to which my invention is applied; Figs. 2 and 3 are detail views of the parts of the folder detached.

In these drawings the construction of the sewing machine is that illustrated in patent granted Lansing Onderdonk, No. 547,675, October 8th, 1895, there being used two obliquely set needles, coöperating with two correspondingly set loopers.

The overhanging frame F and the bed plate B are of the construction shown in said patent.

The stationary part of the folder is shown at 1; it is curved to conform and fit snugly to the periphery of the bed plate and is secured thereto by set screws 2. It has the vertical rib or keel 3 which gradually decreases in height toward the needles and its wall is straight on one side and slightly concaved on the other. This part 1 is cut away at 5 to avoid interference with the feed dog. The other part of the folding guide as a whole is shown in detail in Fig. 3 and comprises a plate 6 having formed on its lower end a double folder, formed with a base 7 shaped to conform to the bed plate of the machine. This base has a lip 8, a vertical wall 9, a horizontal wall, 10, and a downwardly projecting wall 11 coöperating with the rib or keel or wall 3 above referred to. The wall 11 is continued above the plane of the base and formed with a horizontal flange 12. Projecting upwardly from the base 7 and in continuation of the horizontal wall 10 is an upward and outwardly turned lip 13. It will thus be seen that when two pieces of fabric are to be folded and sewed, the edges respectively being forced against opposite sides of the wall formed by 3 and 11 are guided the one into the recess 14 formed by the walls 8, 9, 10, and 11, and the other up against the lip 13 and into the recess 15 formed by said lip, the wall 11 and flange 12. Thus the pieces are interfolded and will be properly fed to the needles to be stitched as is customary with lap seams.

The plate 6 is slotted as at 16 and the slots embrace set screws 17 passing therethrough into the arm 18 pivoted at 19 to the bracket 20 secured to the machine head.

The bracket 20 is provided with the part 21 through which the screws pass, which hold said bracket on the frame of the machine and it has a downwardly and angularly projecting portion 22 to which said arm 18 is pivoted. Said arm 18 is also provided with a twist as shown at 23, which brings the part of said arm below the twisted portion out of parallelism with the part 22 of the bracket and by this construction it will be seen that as the folder and the arm 18 to which it is attached are swung upwardly they will also move in an oblique plane outwardly and upwardly away from the presser foot up to a point where they will be entirely out of the way of the head of the machine. A stop 24 is provided on the part 22 to limit the downward movement of the folder.

It will be noted that the sleeve or other tu-

bular article may be drawn over the bed plate while the movable part is swung up out of position, the said part may then be swung into position and the operation of sewing carried on and then before the work is withdrawn said folder must be swung up out of position again.

Having thus described my invention, what I claim as new and desire to secure by Letters Patent is:

1. In combination with a sewing machine having an overhanging frame, an arm carrying on its lower end a folding guide member beneath the said frame, said arm being pivoted upon a stationary part of the machine, so as to have a vertical movement, and means for causing said arm to swing outwardly,-as well as vertically in a plane oblique to the line of stitching.

2. In combination with a sewing machine, a bracket attached thereto having an angular projecting plate, an arm pivoted thereto having its lower portion twisted out of parallelism with said angular plate, and being movable in a plane oblique to the line of stitching, said arm being provided at its lower end with a folding guide; substantially as described.

3. A folding guide for sewing machines, comprising a stationary portion secured to the bed of the machine, a portion movable in a plane oblique to the line of stitching and pivoted to the frame of the machine, said moving portion being provided with a double guiding member, and a vertical rib or wall, and the stationary portion with a coöperating guiding wall; substantially as described.

4. A folding guide for cylinder sewing machines having a stationary part secured to the bed of the machine and a vertically swinging sidewise moving part coöperating therewith, the said parts being shaped on their lower edges to conform to the periphery of the cylindrical bed plate of the machine; substantially as described.

5. A folding guide for sewing machines having a stationary portion secured to the bed plate of the machine and having a vertical rib or wall, a swinging portion secured to the frame of the machine and having two guiding recesses, and having a guiding wall or rib coöperating with the guiding wall or rib on the stationary portion the two ribs practically forming one vertical wall; substantially as described.

6. In combination with a sewing machine, a bracket having a downwardly and angularly projecting portion 22, an arm pivoted thereto and having its lower portion twisted out of parallelism with the part 22 of the bracket, whereby when it is swung it has a combined outward and upward movement in a plane oblique to the line of stitching and a folding guide supported on the lower end of said pivoted arm; substantially as described.

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

JOSEPH F. FOSCHINBAUR.

Witnesses:

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CHESTER MCNEIL.