

No. 847,714.

PATENTED MAR. 19, 1907.

W. WILSON.
WORK GUIDING DEVICE.
APPLICATION FILED MAR. 17, 1906.

2 SHEETS—SHEET 1.

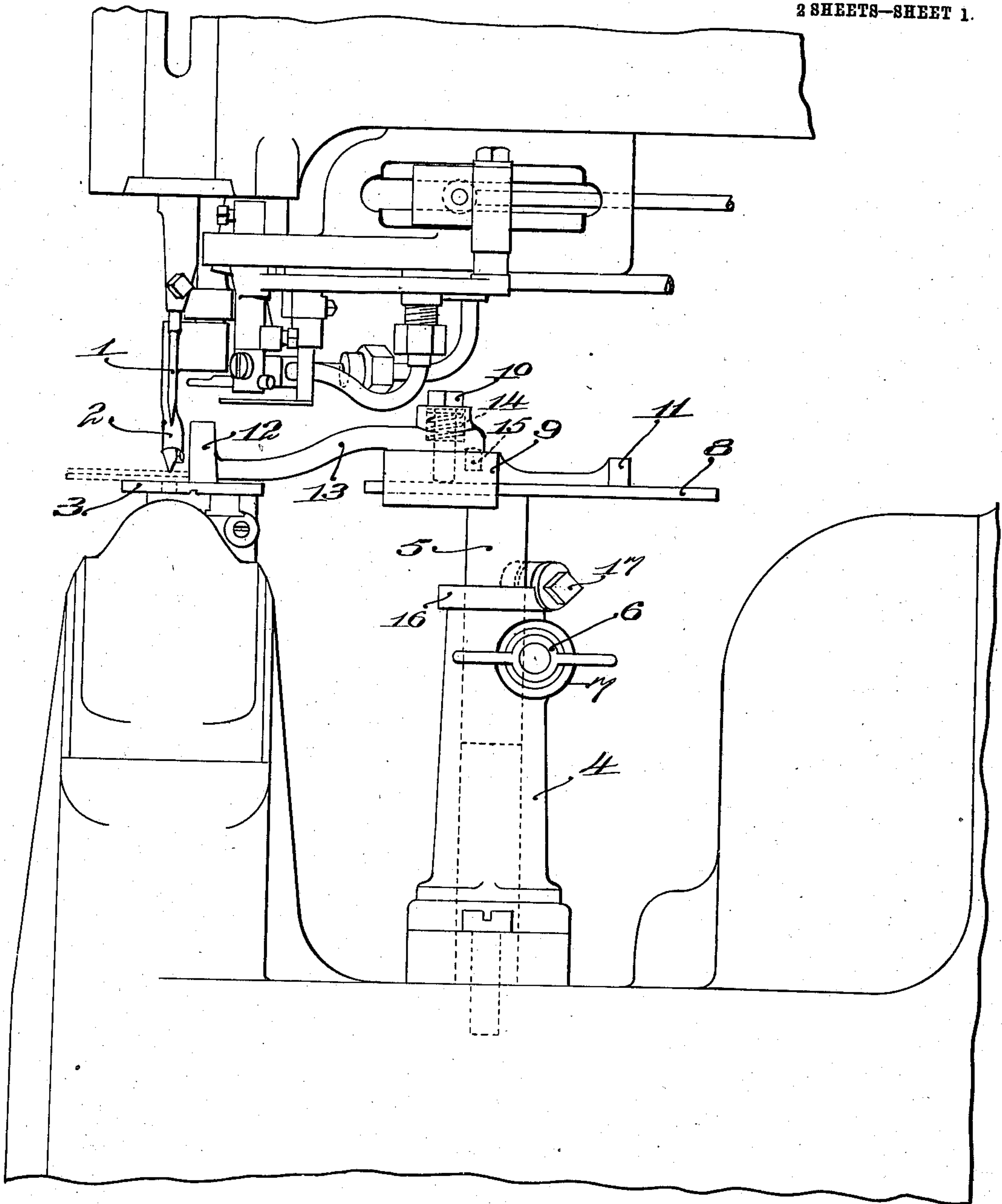


Fig. 1.

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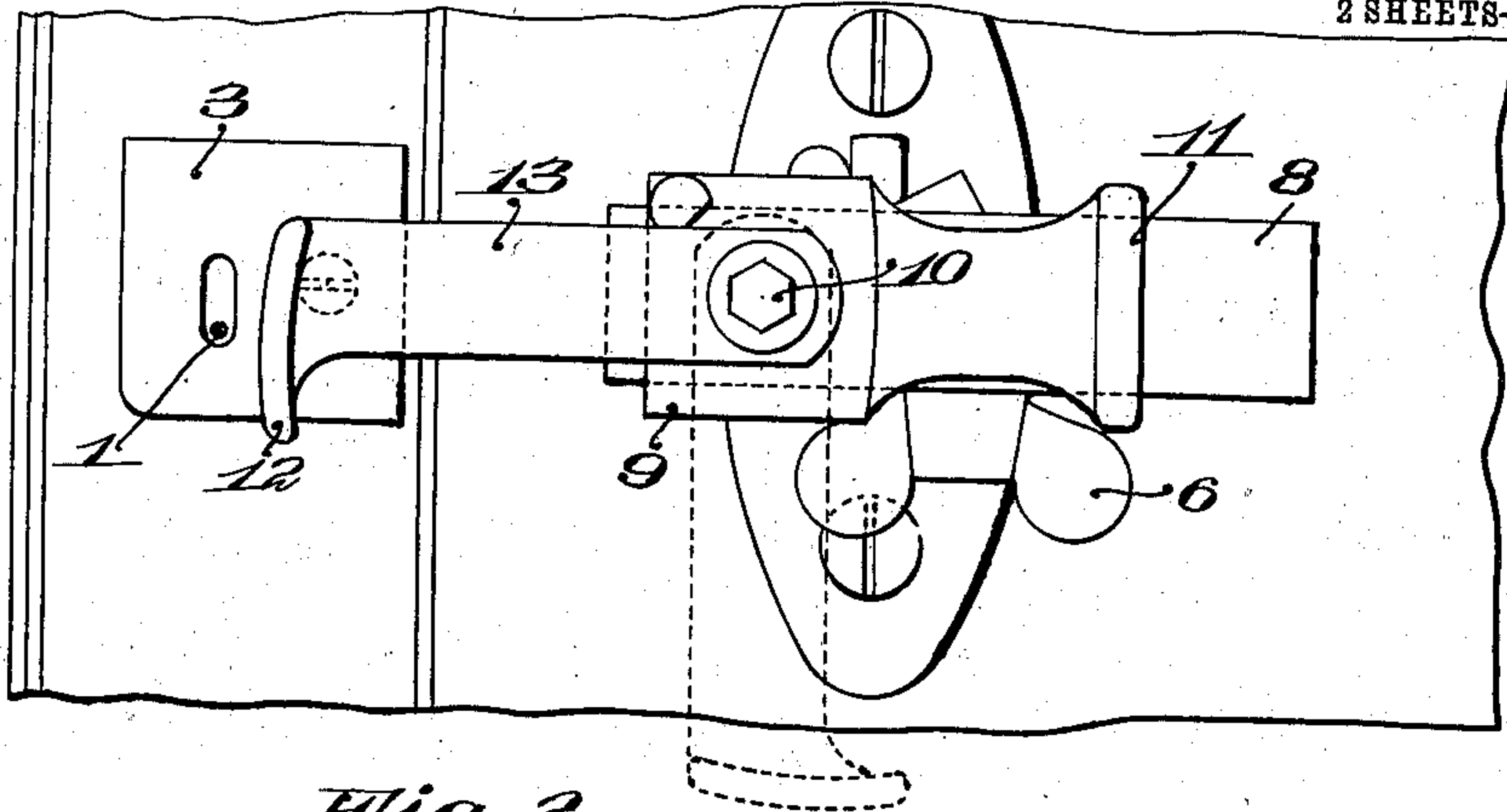


Fig. 2.

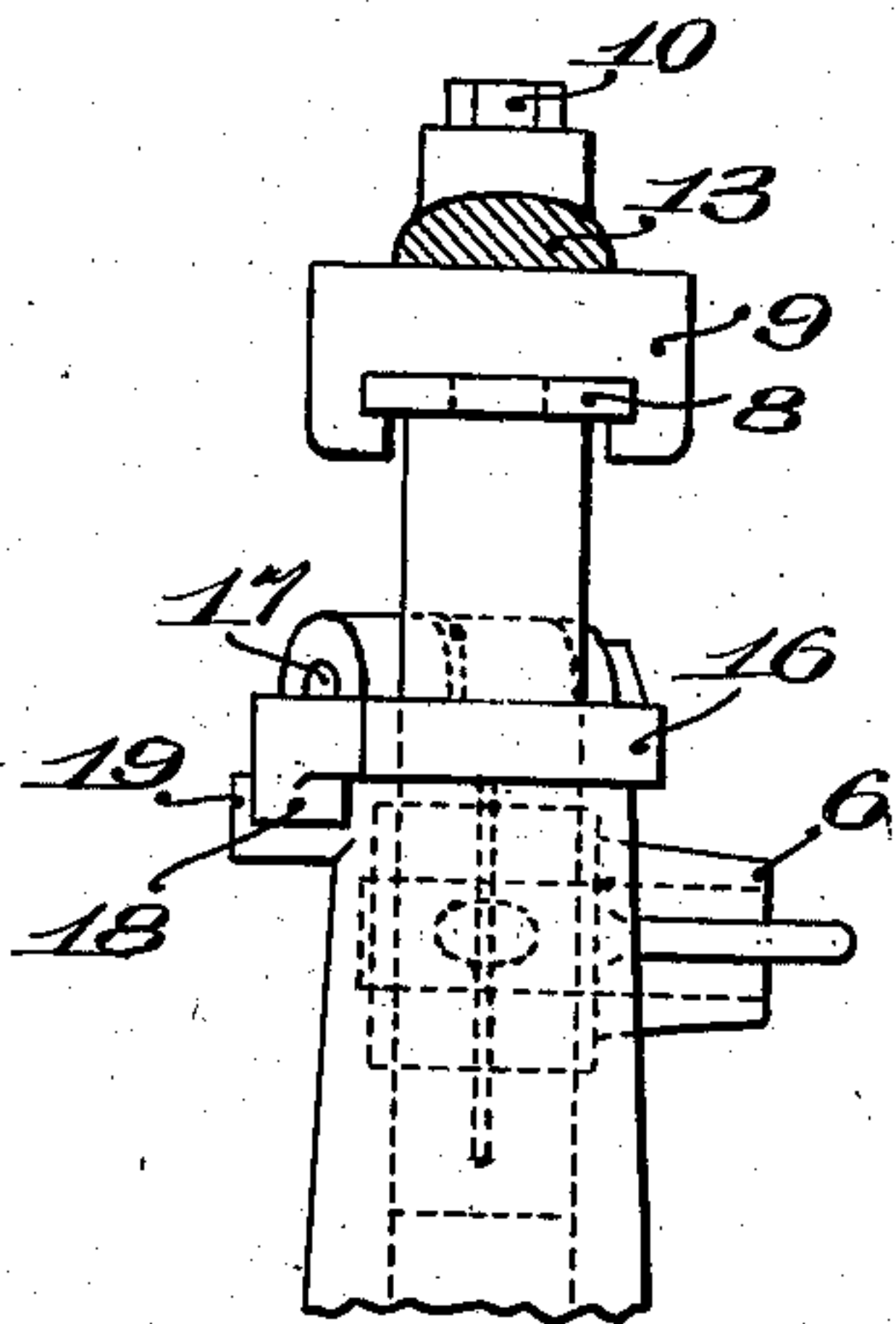


Fig. 3.

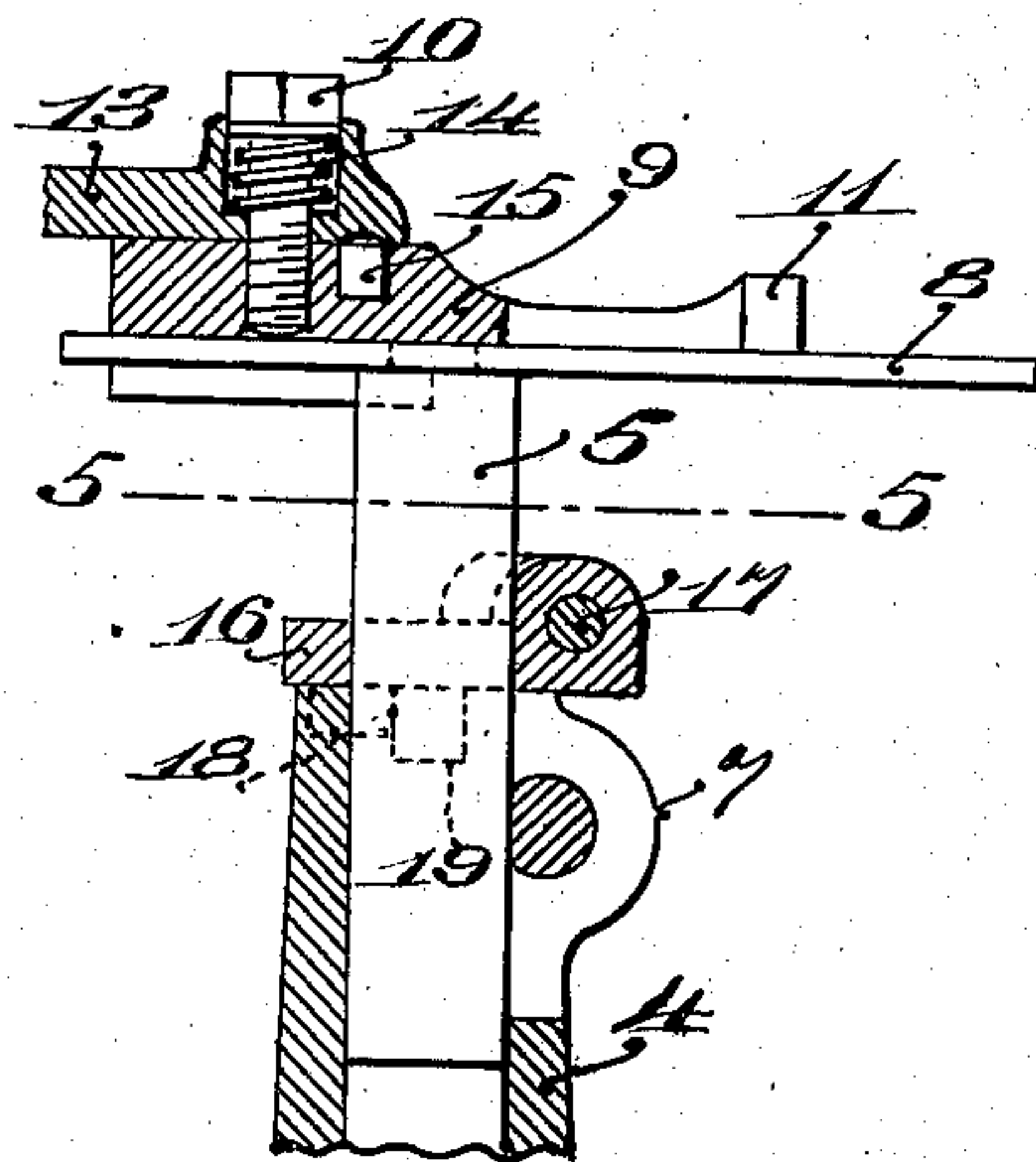


Fig. 4.

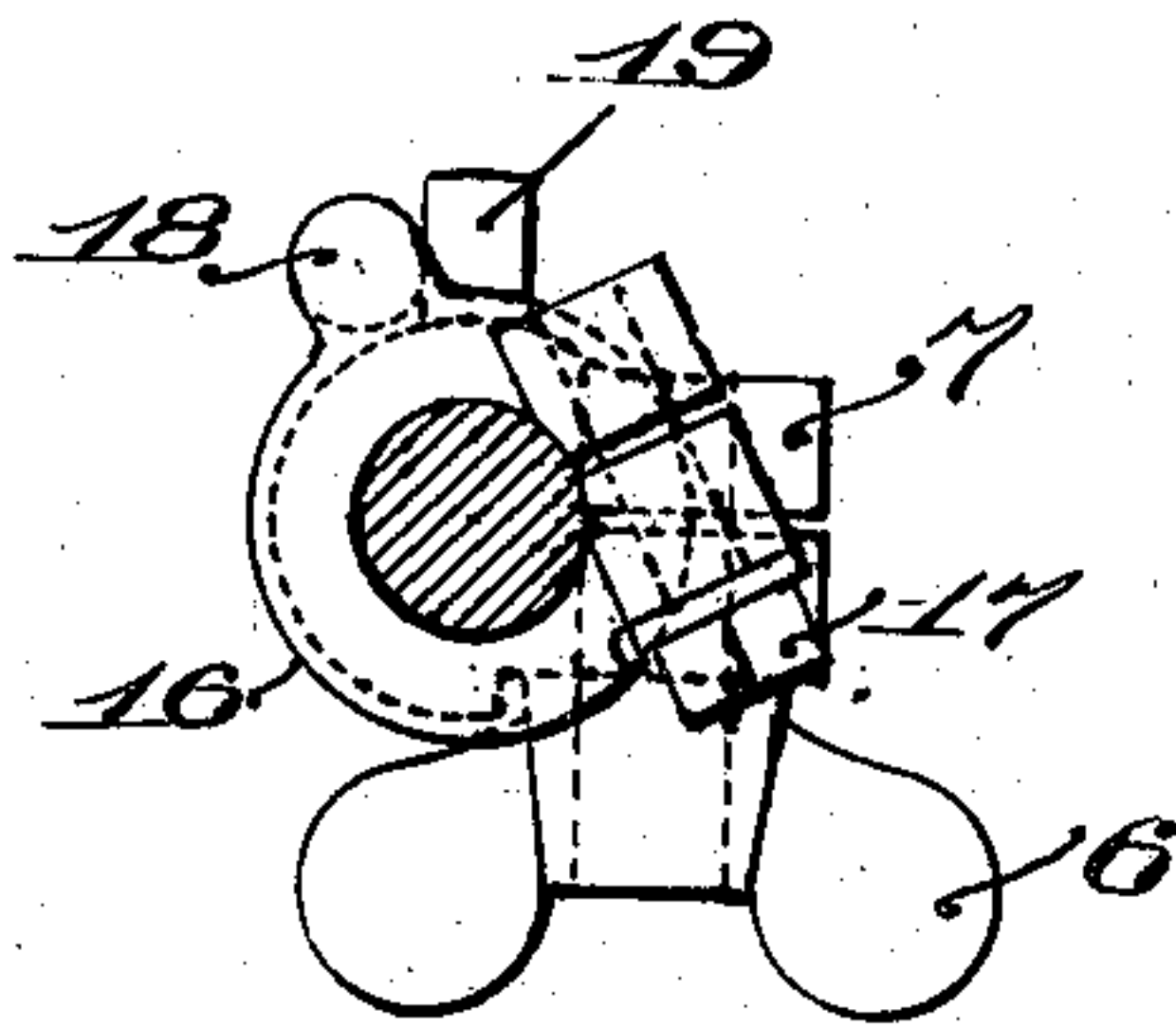


Fig. 5.

Witnesses

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UNITED STATES PATENT OFFICE.

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WORK-GUIDING DEVICE.

No. 847,714.

Specification of Letters Patent.

Patented March 19, 1907.

Application filed March 17, 1906. Serial No. 306,547.

To all whom it may concern:

Be it known that I, WILLIAM WILSON, a citizen of the United States, residing at Boston, in the county of Suffolk and State of Massachusetts, have invented certain new and useful Improvements in Work-Guiding Devices; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to improvements in work-guiding attachments for sewing-machines.

In the operation of sewing-machines which are adapted for performing work of various characters—such, for instance, as wax-thread sewing-machines which are adapted for sewing harness, hand-bags, and various kinds of leather goods—it is necessary in adapting such machines to the different characters of work performed to use various work-guiding devices or attachments for guiding the materials operated upon.

The present invention relates to improvements in the construction of such attachments; and one object of the invention is to produce means for mounting and securing guiding devices upon a sewing-machine which will permit the convenient adjustment of such devices and which may be used in connection with a variety of different devices.

Another object is to produce an improved edge-gage attachment for sewing-machines.

The invention consists in the work-guiding attachment hereinafter described as defined in the claim.

In the drawings, Figure 1 is a side elevation of a work-guiding attachment embodying the present invention, together with the adjacent parts of a sewing-machine in connection with which it is used. Fig. 2 is a plan view of the attachment. Fig. 3 is a front elevation of the upper portion of the attachment with the edge-gage removed. Fig. 4 is a vertical section of the same part. Fig. 5 is a horizontal section showing in detail the stop-collar and cooperating parts.

The illustrated embodiment of the invention is shown in the drawings as attached to the well-known Campbell wax-thread sewing-machine, which need not be particularly described. The awl 1, presser-foot 2, and work-table 3 are all of familiar forms.

The work-guiding attachment comprises a vertical post 4, secured to the frame of the machine and provided with a vertical socket for the reception of a round stem 5, which may be raised or lowered in the post 4 or turned therein and which when adjusted to proper position may be secured by a thumb-screw 6, which is threaded into lugs 7 in the upper end of the post 4 and operates to draw the lugs together, the post being split for this purpose. The stem 5 carries on its upper end a horizontal bar 8, upon which is slidably mounted a block 9, which may be secured in adjusted position on the bar 8 by a set-screw 10. The block 9 carries the work-guiding devices, which in the illustrated embodiment of the invention are two edge-gages, of which one (marked 11) is formed integral with the block 9, while the other, 12, is provided with an arm 13, pivoted upon the set-screw 10. The arm 13 is provided with a socket concentric with the set-screw, within which is located a compression-spring 14, and the lower face of the arm has a slight depression engaged when the gage is in working position by the rounded upper end of a pin 15, fixed in the block 9. By this construction the edge-gage 12 is held normally in working position, but may be easily swung away by the operator against the resistance of the spring 14 and pin 15 when it is necessary to temporarily discontinue its use—as, for example, in performing certain operations on harness where the pieces being sewed are of irregular form.

The edge-gage 11 is provided for use where it is necessary to use a narrower gage than the gage 12. By adjusting the block 9 along the bar 8 the distance of either edge-gage from the needle may be varied so as to adjust the distance between the seam and the edge of the work. The edge-gage 11 is not pivotally mounted upon the block 9, like the edge-gage 12, but provision is made for swinging the attachment as a whole, with the exception of the post 4, so that the gage 11 or any other work-guiding device which may be substituted therefor may be swung into and out of working position during the operation of the machine. To this end the stem 5 is provided with a stop-collar 16, which is split and provided with a screw 17, by which it may be clamped upon stem 5. This collar determines the height of the stem 5 in the post 4, so that when the thumb-screw 6 is

loosened the stem 5 and parts carried thereby may be swung in the post without changing their vertical position.

In order that the work-guiding device when swung back to working position may always swing to the same point without attention on the part of the operator, the stop-collar 16 is provided with a downwardly-extending stop 18, which engages a corresponding lug 19 on the post 4. By loosening the stop-collar 16 and turning it upon the stem 5 the parts may be adjusted so that they will stop at the proper position, and until this adjustment is changed they will always return to the same point. The stem 5 and parts carried thereby may also be entirely removed from the post 4 to substitute another attachment, and when replaced will return to proper position without readjustment.

The stem 5, bar 8, and stop-collar 16, form a carrier which may be used for various work-guiding devices, the adjustments provided in these parts being useful in connection with the various devices, and though the invention is described particularly as used in connection with edge-gages it will be under-

stood that except in so far as the claim is specifically limited to such construction it is intended to cover the use of the form of carrier shown in connection with various work-guiding devices.

Having now described the invention, what is claimed is—

A work-guiding attachment for sewing-machines having, in combination with the base of the machine, an upwardly-extending support provided with a vertical socket and means for clamping a stem therein, a stem removably journaled in the support and carrying a work-guide, a collar fixed but vertically and rotatably adjustable on the stem and engaging the top of the support, and cooperating stops on the collar and the support for limiting in one direction, the rotation of the stem in the socket, substantially as described.

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

WILLIAM WILSON.

Witnesses:

HORACE VAN EVEREN,
FRED O. FISH.