

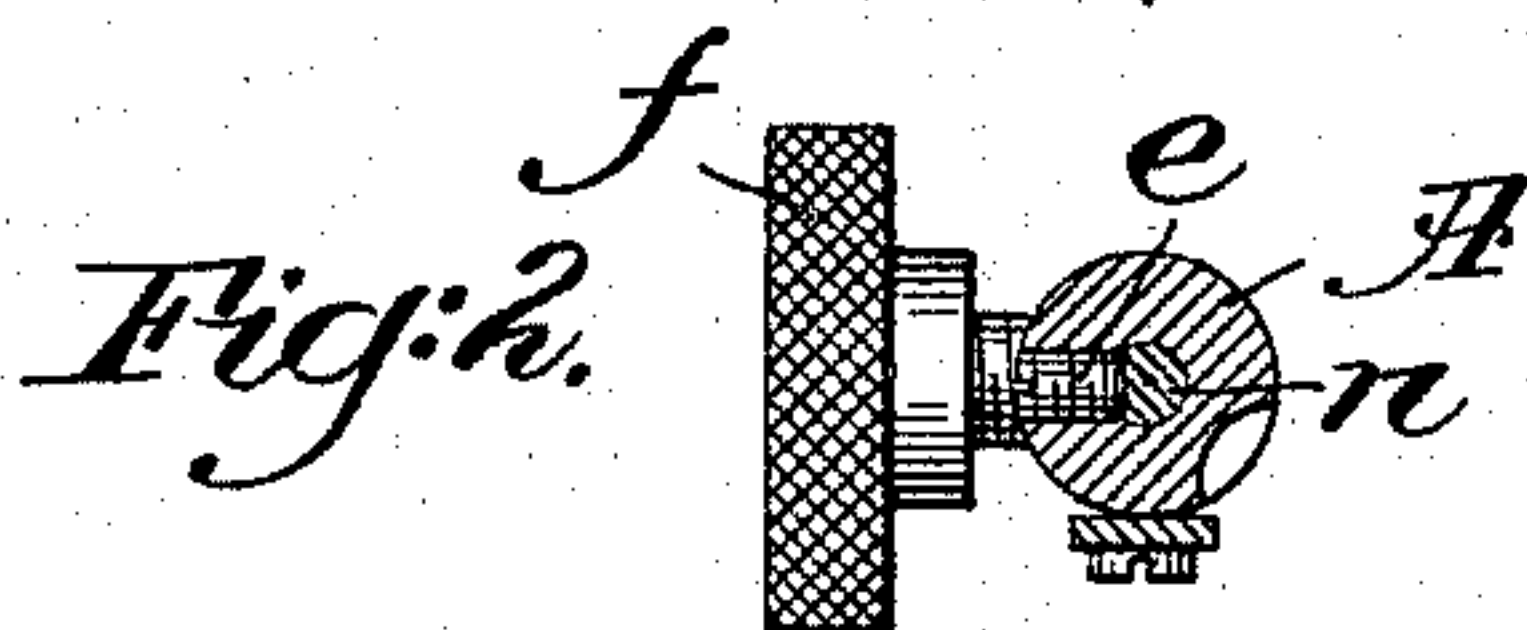
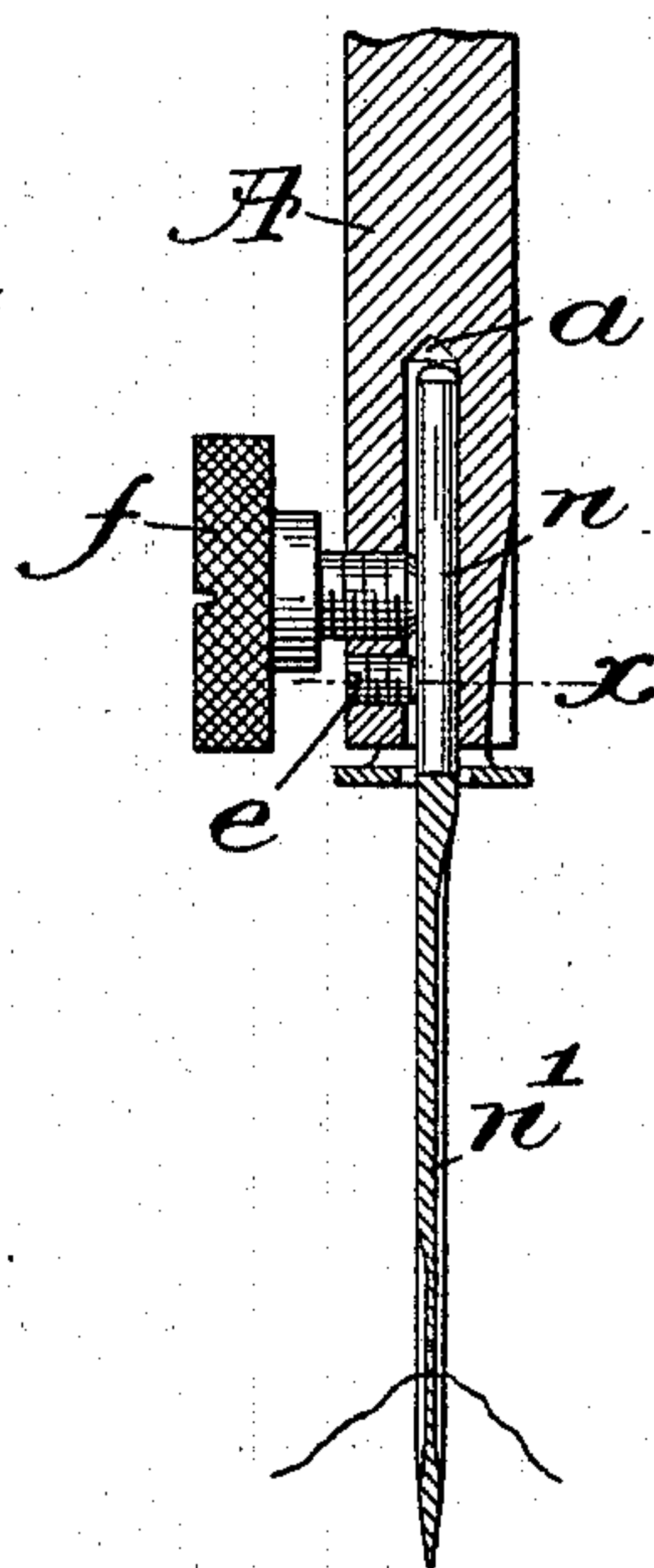
(No Model.)

S. H. WHEELER.
NEEDLE BAR FOR SEWING MACHINES.

No. 527,915.

Patented Oct. 23, 1894.

Fig:1.



witnesses.

Fred S. Gumbel.
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UNITED STATES PATENT OFFICE.

SAMUEL H. WHEELER, OF CHICAGO, ILLINOIS, ASSIGNOR TO THE WHEELER & WILSON MANUFACTURING COMPANY, OF BRIDGEPORT, CONNECTICUT.

NEEDLE-BAR FOR SEWING-MACHINES.

SPECIFICATION forming part of Letters Patent No. 527,915, dated October 23, 1894.

Application filed February 23, 1894. Serial No. 501,277. (No model.)

To all whom it may concern:

Be it known that I, SAMUEL H. WHEELER, of Chicago, Cook county, State of Illinois, have invented an Improvement in Needle-Bars, of which the following description, in connection with the accompanying drawings, is a specification, like letters on the drawings representing like parts.

Ordinarily the needle-bars in sewing machines are provided at their lower ends with a cylindrical bore for the reception of the cylindrical shank or upper end of the needle, the latter when the eye of the needle has been brought at the proper distance from the end of the needle-bar and when made to face in the proper direction being held in place by means of a set screw screwed into said needle-bar through a tapped hole so as to meet the shank of the needle.

In some sewing machines the shank of the needle has been flattened or slabbed off at one side to facilitate putting the eye of the needle in just the right direction.

I have aimed in my invention to provide a needle bar adapted to receive either the round shank or a flattened or slabbed shank of a needle whichever form of needle is to be used or is on hand to be used.

The particular features in which my invention consists will be hereinafter described and designated in the claims.

Figure 1 represents part of a needle-bar with its lower end broken out to show a needle held therein in accordance with my invention, and Fig. 2 is a section in the line x , looking up.

The needle-bar A, of any usual shape, is provided at its lower end with a cylindrical bore a , to receive the shank n of the needle n' .

One part or side of the shank of the needle shown in the drawings is flattened or slabbed off as indicated, and to provide for using such a needle and enable it to be put unerringly in the bore a , I have provided said bar with an adjustable abutment e , herein shown as a screw, entering said bore, but the needle is confined in the bore of said bar by a set screw f having preferably a milled head. Now in case it is desired to use a round shanked needle for some reason, then the operator by a suitable screw-driver or otherwise, will retract the abutment e from the cylin-

drical bore, thus leaving a circular opening for the shank of the needle.

It will be noticed that the abutment when used is made to project, see Fig. 1, so far into the bore a as to prevent the entrance of the flattened shank of the needle except the latter is in just the proper position.

In this invention the needle is held in the bore of the bar by only the pressure of the screw f bearing directly against one side of the needle shank in said bore, and the adjustable abutment entering said bore may be readily adjusted to contract the effective diameter of the bore and constitute a proper positioning device or guide for the needle used, and all collars or loose blocks held in place by screws are obviated, the fewer the parts and the less number of screws to be moved in securing a needle in place the better.

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

1. A needle bar having at its lower end a longitudinal round bore to receive the shank of a needle, and an adjustable abutment located within said round bore at one side thereof, said abutment constituting an adjustable bearing for a flattened part of the shank of the needle, combined with a set screw screwed into the said bar and entering said round bore and acting against the shank of said needle to operate, substantially as described.

2. A needle bar having at its lower end a longitudinal round bore to receive the shank of a needle, and an adjustable threaded abutment located within said round bore at one side thereof, said abutment constituting an adjustable bearing for a flattened part of the shank of the needle, combined with a set screw screwed into said bar and entering said round bore at a point above and close to said abutment and acting against the shank of said needle to operate, substantially as described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

SAMUEL H. WHEELER.

Witnesses:

ISAAC HOLDEN,
A. E. PORTER.