

(No Model.)

2 Sheets—Sheet 1.

F. W. MERRICK.

WORK SUPPORT FOR SEWING MACHINES.

No. 490,855.

Patented Jan. 31, 1893.

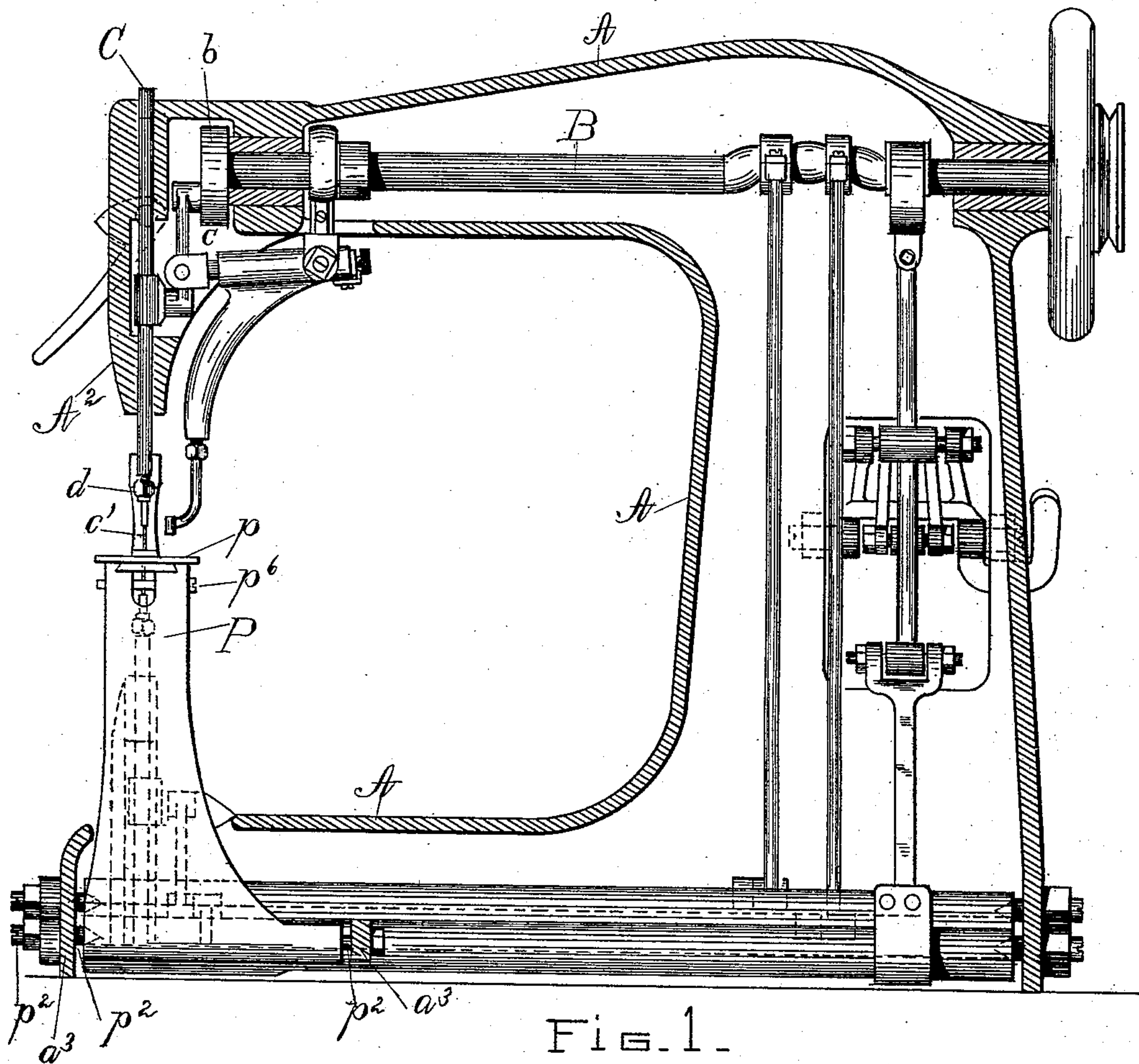


FIG. 1.

WITNESSES

Arthur F. Randall
Robert Wallace

INVENTOR

Frank W. Merrick
by
Macleod Calver Randall
his Atty.

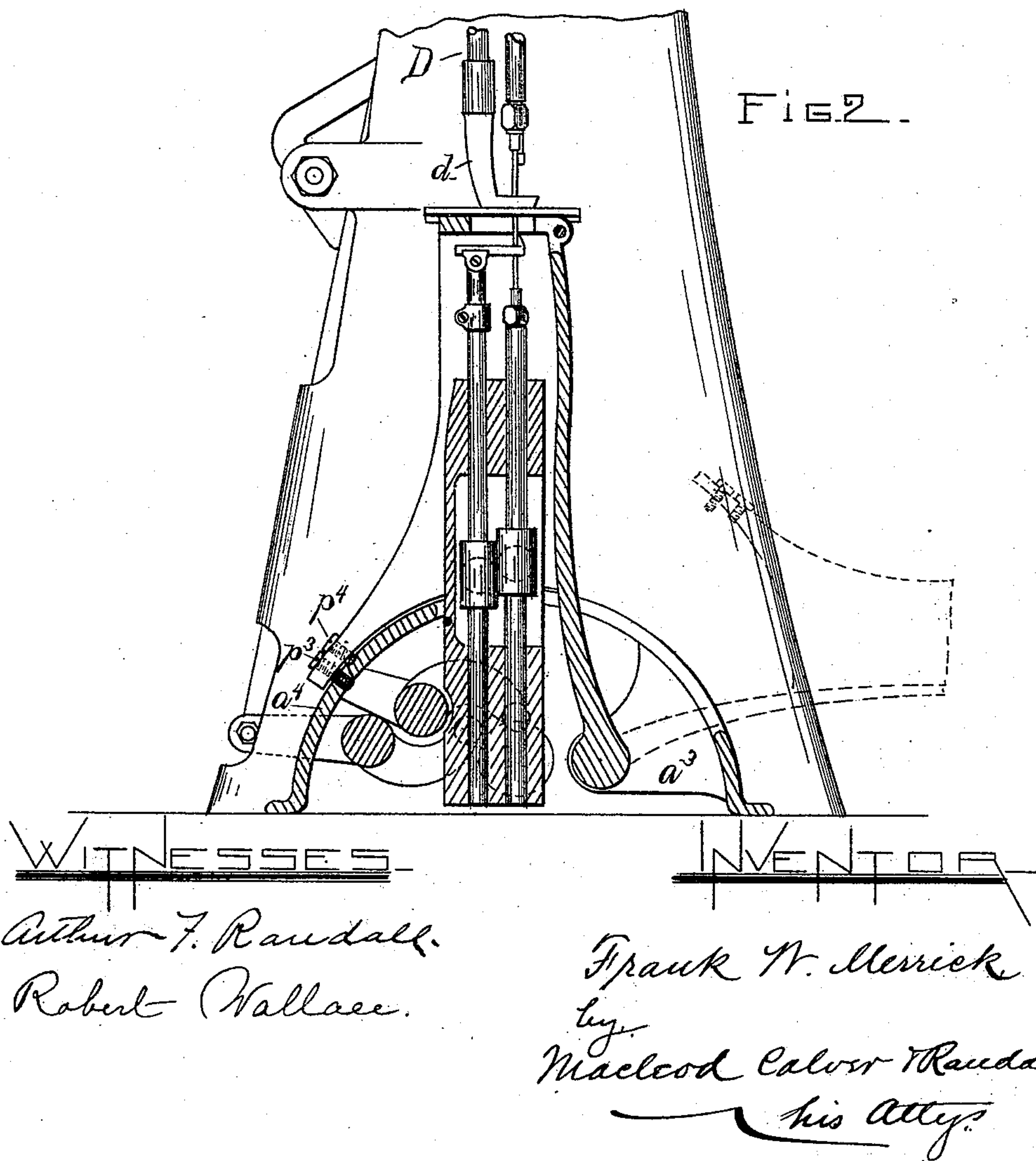
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2 Sheets—Sheet 2.

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UNITED STATES PATENT OFFICE.

FRANK W. MERRICK, OF BOSTON, MASSACHUSETTS.

WORK-SUPPORT FOR SEWING-MACHINES.

SPECIFICATION forming part of Letters Patent No. 490,855, dated January 31, 1893.

Application filed March 7, 1892. Serial No. 424,014. (No model.)

To all whom it may concern:

Be it known that I, FRANK W. MERRICK, 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-Supports for Sewing-Machines, of which the following is a specification, reference being had therein to the accompanying drawings.

My invention has for its object to produce an improved work supporting post for sewing machines so constructed and mounted, as to be readily swung out of the way when for any reason access to the parts of the machine below the work plate is desired as also to provide novel means for securing the work-plate to said post.

My invention is more particularly set forth in the following description, and the novel features thereof are pointed out in the claims which are appended hereto.

I have shown my invention in the accompanying drawings in which

Figure 1 is a side view of a sewing machine of that class employing a barbed or hooked work-feeding needle, the frame work thereof being in section and showing my invention applied to the machine. Fig. 2 is an end view broken away and partially in section showing more clearly my invention and the method of applying it.

A denotes the frame of the machine, in the upper part of which is journaled the driving shaft B, having at its forward end a crank-disk *b* connected by a pitman *c* with the awl-bar C carrying the awl *c'*, and reciprocating in the usual manner in the head A² at the forward end of the arm, forming part of the frame of the machine, the presser bar D carrying the presser foot *d*, being also supported by and vertically movable in the said head in the usual manner.

E denotes the needle bar and *e* the hook needle of said bar, as is usual in wax thread sewing machines.

F is the cast-off bar and *f* the cast-off carried by said bar, said cast-off co-operating with said needle in the usual manner, the said needle bar and cast-off being arranged below the work plate *p*, as will be hereinafter described.

As the invention forming the subject of this

application relates to the work supporting post and work plate I will confine myself in the following description to these parts and their immediate connections.

The work supporting post P is pivoted at its lower end on the center screws *p*² which are tapped in lugs *a*³ in the base of the frame A. The elevated work plate *p* is mounted in the top of the supporting post P, said plate being dove-tailed or set in a recess therein. The post P is split at its upper end and provided with a clamping screw *p*⁶ by means of which the two parts of the post may be drawn together and the work plate firmly clamped between them. By this method of mounting the work plate, the surface of the plate is maintained intact and free from screw holes or the like, which is desirable. The plate may also be readily removed by simply loosening the clamping screw *p*⁶; it is firmly held, and capable of being accurately adjusted relatively to the needle. By constructing the work supporting post as described it may be turned down as denoted by dotted lines Fig. 2, when a needle is to be inserted or removed, or when for any reason, access to the parts below the work plate is desired. The center screws *p*² on which the post P is pivoted afford means for a slight lateral adjustment of said post to bring the needle throat in the work plate into proper position, the said post being rigidly secured in place by the holding screws *p*³ which are tapped in the part *a*⁴ of the frame A. The adjustable contact screws *p*⁴ provide means whereby the working position of the post P may be slightly varied in a plane at right angles to the plane of adjustment afforded by the center screws *p*².

The work supporting post P is a well known feature of wax thread machines and consists of a vertical standard or upright which projects above the adjacent parts of the frame of the machine and serves to support the work against the pressure of the presser foot and the thrust of the awl.

What I claim is:—

1. In a sewing machine, the combination with a needle and cast-off arranged below the work plate of the machine, and the bars by which said parts are carried, of a vertical work supporting-post pivoted at its lower end to the frame of the machine and carrying the

said work plate at its upper end, the said work-supporting post having a rigid connection with the machine frame at a point removed from its pivot; whereby the said post
5 may be turned down for access to the needle and cast-off below the work plate, when desired, and whereby it is held rigidly in place when in its operative position.

2. In a sewing machine, the combination,
10 with a work supporting post, split at its up-

per end and recessed to receive the work plate, of a work plate therefor, and a clamping screw, substantially as shown and described.

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

FRANK W. MERRICK.

Witnesses:

WM. A. MACLEOD,
ROBERT WALLACE.