

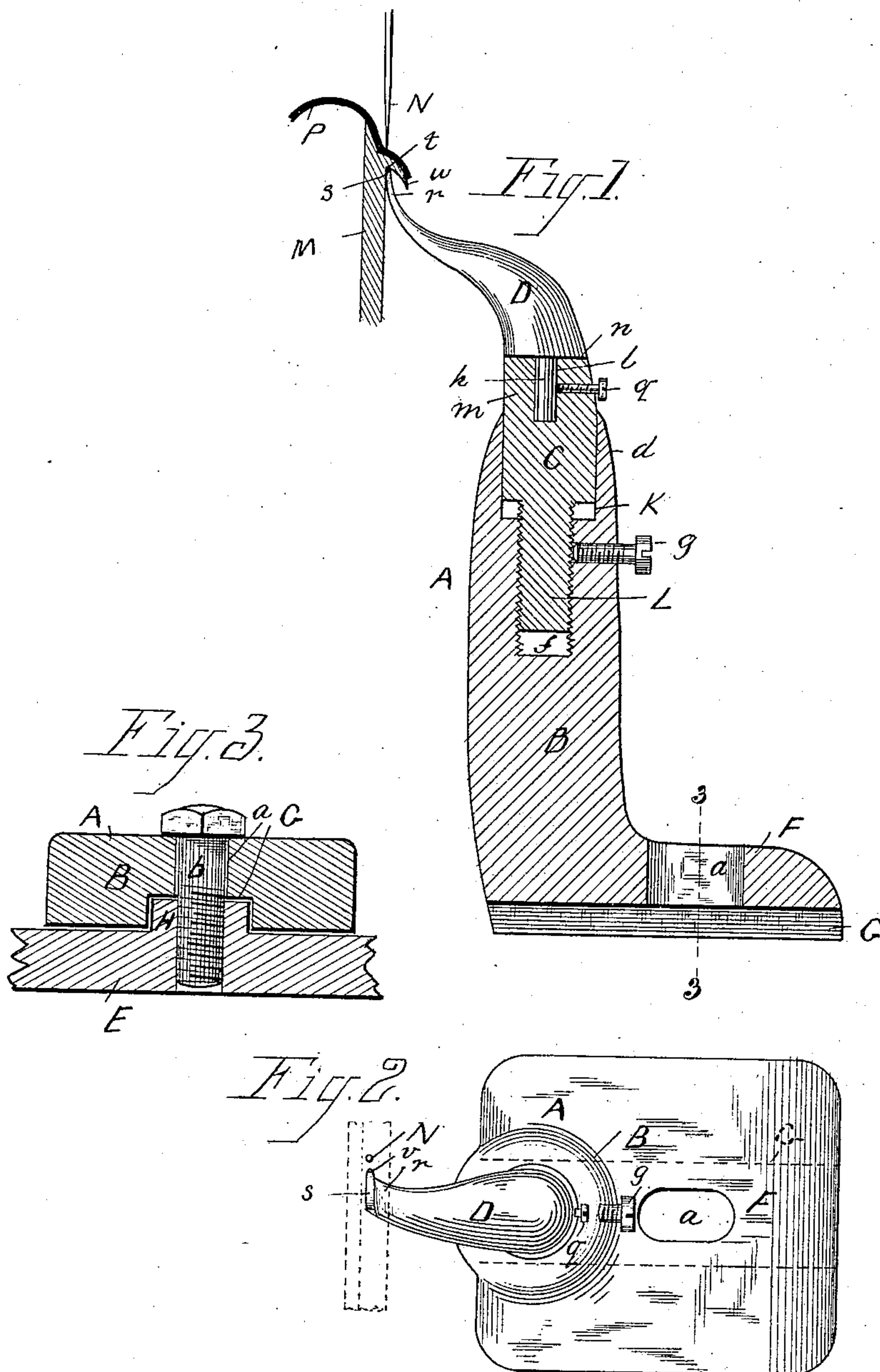
(No Model.)

E. S. HARRIS.

ATTACHMENT FOR SEWING MACHINES.

No. 334,118.

Patented Jan. 12, 1886.



Witnesses  
H. J. Bellows  
H. E. Bellows.

Elmer S. Harris  
Inventor  
by Brown Bros.  
Attorneys



# UNITED STATES PATENT OFFICE.

ELMER S. HARRIS, OF HAVERHILL, MASSACHUSETTS.

## ATTACHMENT FOR SEWING-MACHINES.

SPECIFICATION forming part of Letters Patent No. 334,118, dated January 12, 1886.

Application filed April 11, 1885. Serial No. 161,916. (No model.)

*To all whom it may concern:*

Be it known that I, ELMER S. HARRIS, of Haverhill, in the county of Essex and State of Massachusetts, have invented certain new and useful Improvements in Attachments for Sewing-Machines, of which the following is a full, clear, and exact description.

This invention relates to an attachment for sewing-machines, more particularly for sewing-machines used in the manufacture of turned boots and shoes, and in which boots or shoes the sole is first channeled in any of the usual ways, and the lip made by such channeling turned back, as shown, for instance, in a pending application of mine and L. M. Nichols, filed December 4, 1884, Serial No. 149,500, for Letters Patent on improvements in soles for boots and shoes; and the invention consists of the construction and arrangement of a post or standard of a sewing-machine, on the upper end or edge of which a boot or shoe, while being operated upon by the machine, rests, is supported, and guided in such manner that such supporting and guiding edge of the post or standard can be regulated and adjusted as to its height and its proper position horizontally in relation to the needle and the other portion of the sewing mechanism of the machine for the proper operation thereof in sewing the boot or shoe, all substantially as hereinafter fully described.

In Figure 1 of the accompanying plate of drawings is shown in partial side view and partial vertical section a post or standard of a sewing-machine constructed according to this invention, showing the needle of the machine in side view, and also showing in detail section a sole and upper of a boot or shoe in position for operation thereon. Fig. 2 is a plan view of Fig. 1; and Fig. 3 a cross-section on line 3, Fig. 1, showing also the bed-plate in detail section.

In the drawings, A represents a post or standard of a sewing-machine, substantially as used in sewing-machines for sewing boots and shoes, except as to this invention. This post or stand A is divided into three parts, B, C, and D.

B is the base by which the post is attached and secured to the body or bed plate E of the machine, having a horizontally-projecting por-

tion, F, provided on its under side with a longitudinal groove, G, adapted to fit over a rib, H, of the bed-plate E, and on which and the bed-plate it can freely slide forward and backward.

a is a central longitudinal slot in the portion F of the part B, through which the screw b freely passes and screws into the plate E, by which screw the part B is secured to the bed-plate, and yet is free to be moved forward and backward on the bed-plate when desirous of adjusting the position of the upper edge of the post in the operation of the sewing-machine.

C is the middle part of the post, circular in cross-section and fitting within a vertical socket, K, in the upper end, d, of the part B, and to turn freely therein, and provided with a screw-threaded extension, L, which screws into the part B at f. Turning this portion C to the right or left by its screw L lowers or raises the part C on the part B, and when in the position desired it is secured from accidental movement by a set-screw, g, screwing into the side of the part B and against the screw L. The upper part, D, has a round tenon or extension, h, on its lower end, adapted to fit and freely turn within a socket, l, in the upper end, m, of the middle portion, C, and resting by its shoulder n on such upper end, m.

q is a set-screw screwing into the portion C, and arranged to screw against the extension h of the part D, by which the upper part, D, is prevented from accidental movement. The upper part, D, from its lower end gradually diminishes in size toward its upper end, r, which upper end extends or projects laterally from and beyond the central portion of the post, as shown in the drawings, for its upper end to be in a position for more convenient use in the operation of the machine. The upper end is reduced to a thin plate or knife-like edge, s, its upper surface being straight and in a horizontal plane, preferably. On this edge s the sole M of the boot or shoe rests and is guided to the needle in the operation of the machine, as shown in Fig. 1, the shoulder or groove t in the sole, formed by the turned-back lip, u, of the sole, resting on the edge s, which guides it to the needle N, which passes through



the upper P and the sole M just behind the end  
v of the edge s.

The object of making the post in three parts,  
as described, is to enable the edge or rest s to  
5 be raised or lowered for its proper adjustment  
as to its height and its proper position in re-  
lation to the needle and its movements in  
making the stitch in the material to suit vary-  
ing thicknesses of soles and the proper guid-  
ance of the sole to the needle—as, for example,  
if the sole is thin the edge s should be raised  
higher than if the sole is thick. This adjust-  
ment is secured by simply turning the parts C  
D in their respective sockets, for instance, as  
5 follows: Loosen both set-screws g q, and hold  
the edge s at the desired point horizontally in  
reference to the needle, and then turn the middle  
portion to the right or left, as it is desired to  
lower or raise the edge s, and when at the  
desired height s rewin in the set-screw g, which  
secures the middle portion, C, from movement;  
then, if need be, adjust the edge s by turning  
the portion D to the right or left and screw up  
its set-screw q to secure it from movement. To  
5 adjust the edge s forward or backward to  
bring it in line with the needle, loosen the  
screw b and move the post along the bed-plate  
as desired, and when the edge s is in the right  
position screw up said screw b, which will se-  
cure the post from movement on the bed-plate,  
swinging or lateral movement on the bed-plate  
being prevented by the tongue-and-groove  
connection with the bed-plate described and  
shown. The upper part, D, can be attached  
5 to the middle part, C, by a screw, in lieu of  
the middle part, C, to the base B, but as de-  
scribed and shown is preferable. The post  
can be connected to the bed-plate or support  
permanently, or to prevent lateral movement  
in other ways than as shown; but the way  
shown is simple and practical. It can also be  
supported in any suitable manner on any part  
of the machine or independent thereof.

In lieu of set-screws to secure the parts to-  
gether to prevent their movements, other  
means can be used; but set-screws are suffi-  
cient and satisfactory.

Having thus described my invention, what  
I claim is—

1. A post or standard of a sewing-machine, 50  
made in three parts, B, C, and D, one part, B,  
of which is secured to the bed-plate or table  
of the sewing-machine, the part D having a  
rest or guiding-edge, s, said part D and the  
part C being adapted to be connected to said 55  
part B and to each other by screw-and-swivel  
joints, and provided with means for securing  
them from movement, all substantially as and  
for the purpose specified.

2. A post or standard of a sewing-machine, 60  
made in three parts, B, C, and D, one part, B,  
of which is connected to the bed-plate or table  
by a tongue-and-groove joint and provided  
with a slot and set-screw, the part D having  
a rest or guiding-edge, s, said part D and the 65  
part C being adapted to be connected to said  
part B and to each other by screw-and-swivel  
joints, and provided with means for securing  
them from movement, all substantially as and  
for the purpose specified. 70

3. A post or standard for a sewing-machine,  
made in three parts, B, C, and D, one part, B,  
of which is secured to the bed-plate or table  
of the sewing-machine, the part C adapted to  
screw into said part B, and secured therein by 75  
a set-screw, g, and the part D, provided with  
a rest or guiding-edge, s, adapted to swivel in  
said part C, and secured therein by a set-  
screw, q, all substantially as and for the pur-  
pose specified. 80

4. A post or standard of a sewing-machine,  
made in three parts, B, C, and D, one part, B,  
of which is connected to the bed-plate or table  
of the sewing-machine by a tongue-and-groove  
joint, and provided with a slot, a, and screw 85  
b, the part C arranged to screw in said part  
B, and secured therein by a set-screw, g, and  
the part D provided with a rest or guiding-  
edge, s, adapted to swivel in the part C, and  
secured therein by a set-screw, q, all substan- 90  
tially as and for the purpose specified.

In testimony whereof I have hereunto set my  
hand in the presence of two subscribing wit-  
nesses.

ELMER S. HARRIS.

Witnesses:

EDWIN W. BROWN,  
WM. S. BELLOWS.