O. BREWSTER.

Presser-Feet for Sewing-Machines.

No. 149,714. Patented April 14, 1874.

Fig. 1.

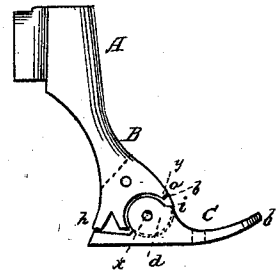
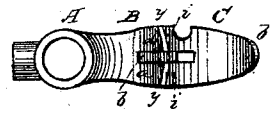


Fig. 2.



WITNESSES:
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AM. PHOTO-LITHOGRAPHIC CO. N.Y. (OSBORNE'S PROCESS.)

UNITED STATES PATENT OFFICE.

ORVILLE BREWSTER, OF WARREN, PENNSYLVANIA.

IMPROVEMENT IN PRESSER-FEET FOR SEWING-MACHINES.

Specification forming part of Letters Patent No. **149,714**, dated April 14, 1874; application filed March 17, 1874.

To all whom it may concern:

Be it known that I, O. BREWSTER, of Warren, in the county of Warren and State of Pennsylvania, have invented certain new and useful Improvements in Presser-Feet for Sewing-Machines; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form part of this specification.

My invention relates to that class of presser-feet for sewing-machines which are made of two parts—a socket with projecting leg or shank, and the foot proper—hinged together so as to allow the foot to oscillate; and the nature of my invention consists in the construction of the parts whereby stops are formed to limit the oscillation of the foot, as will be hereinafter more fully set forth.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawing, in which—

Figure 1 is a side elevation, and Fig. 2 a bottom view, of the presser-foot.

A represents the socket or other suitable device at the upper end of a presser-foot for attaching the same to the presser-foot bar. From this socket projects a leg or shank, B, which is curved forward, as shown, and its lower front end cut out on each side, to leave, as it were, a tenon, *a*, in the center. C represents the foot proper, the main part of which is flat on the under side, and its toe *b* curves upward. On the upper side of the foot C is a projection, *d*, slotted in the center for the reception of the tenon *b*, and a pin or rivet, *x*, passed through said parts unites them together, and hinges the foot C to the leg B. It is, of course, evident that the tenon *b* may be formed on the foot C, and the lower end of the leg be slotted to receive it, which will answer the same purpose. In either case the joint should have adjoining bearing-surfaces *y*, to lessen the strain on the rivet or pin *x*. The hinge or joint is so arranged that the distance from the toe of the foot to the hinge is about twice the distance from the hinge to the heel. On the front side of the joint are formed shoulders *i*, both on the leg and on the foot, which, when the toe is raised, come in contact with each other, and form stops for the upward movement of the toe *b*. On the rear side of the leg B is a projection, *h*, which forms a stop for the heel of foot C, to limit its backward movement and hold the foot in proper position for smooth work.

On smooth work this presser-foot works the same as an ordinary presser-foot, and when it comes to a seam it rises by its lever power. The moment the toe touches the seam it begins to rise, which presses the heel down on the feed.

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

1. The combination, with a jointed presser-foot for sewing machines, of joint and heel stops, to limit the oscillations of the foot, substantially as herein set forth.

2. The combination of the socket A with leg B and the foot C, hinged thereto at *x*, the bearing-surfaces *y*, joint-stops *i*, and heel-stop *h*, all constructed substantially as and for the purposes herein set forth.

In testimony that I claim the foregoing as my own I affix my signature in presence of two witnesses.

ORVILLE BREWSTER.

Witnesses:

WILLIAM H. PICKETT,

HARRISON C. ALDRIDGE.