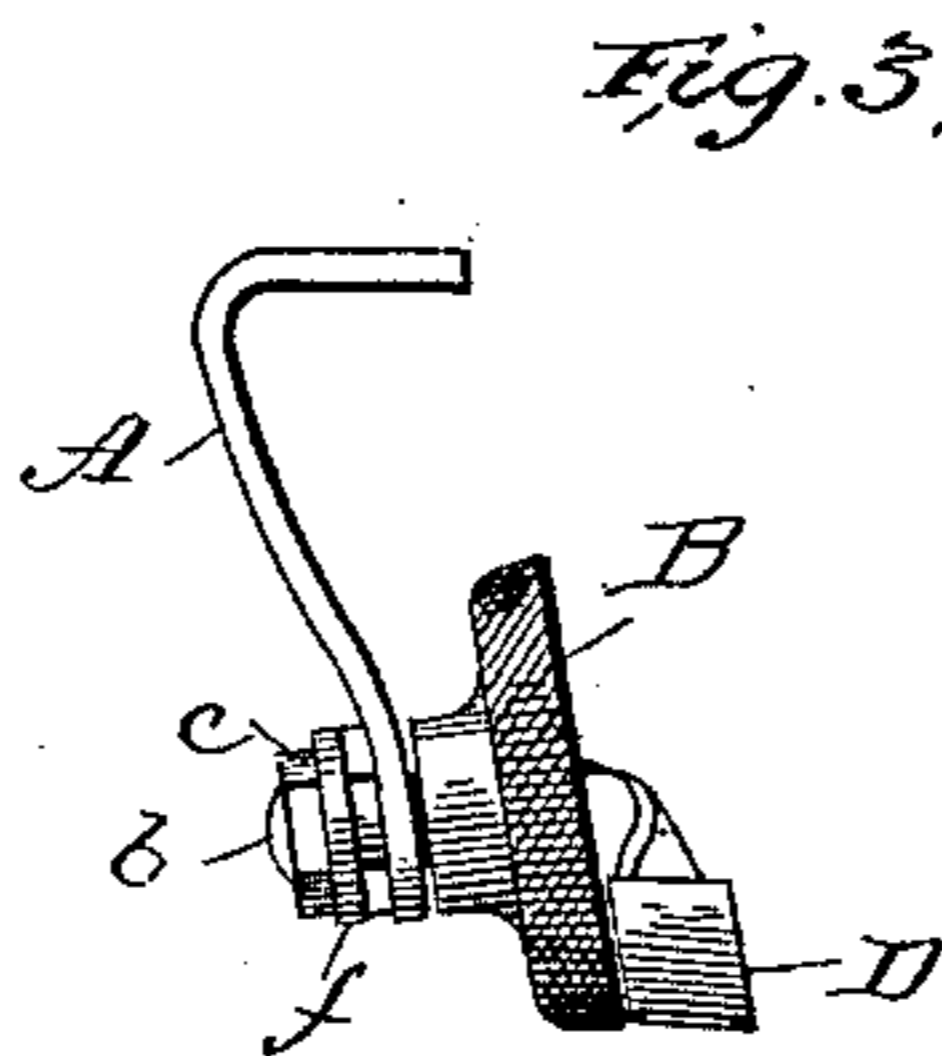
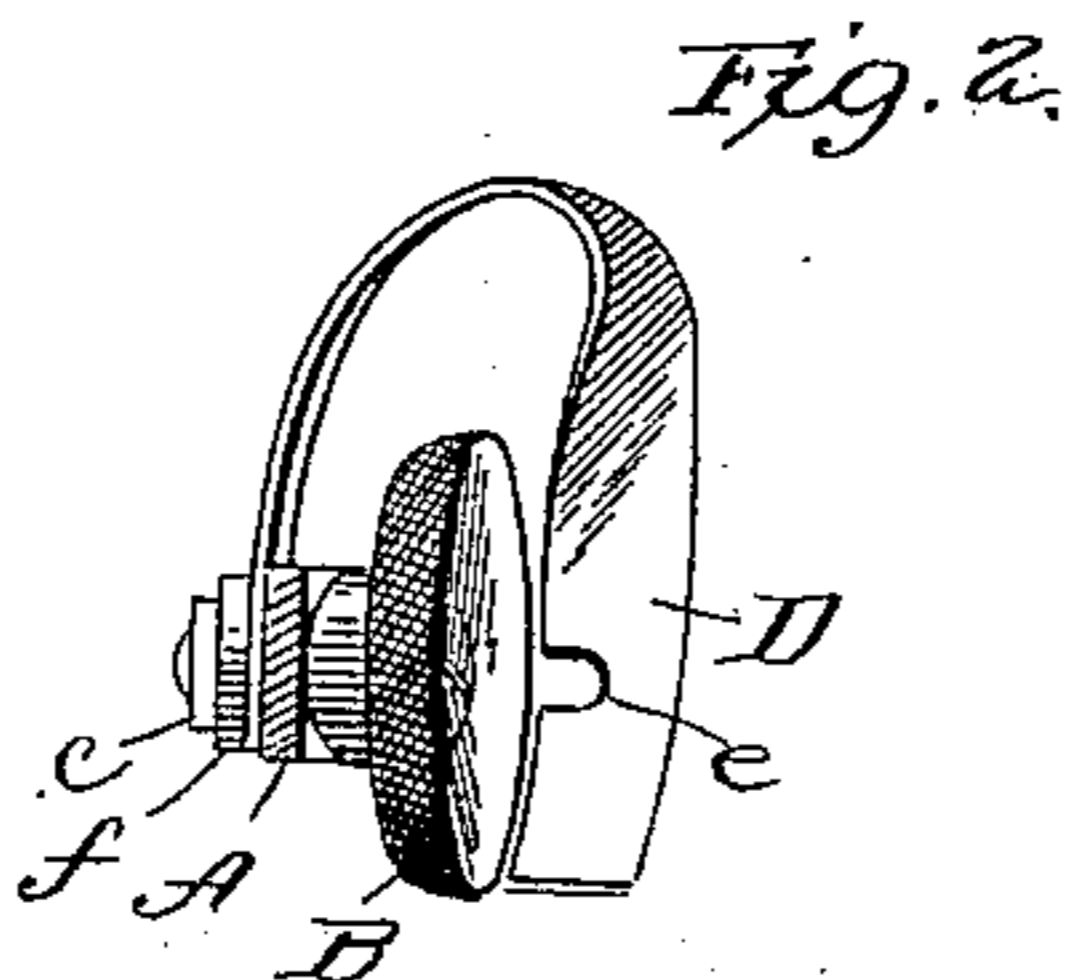
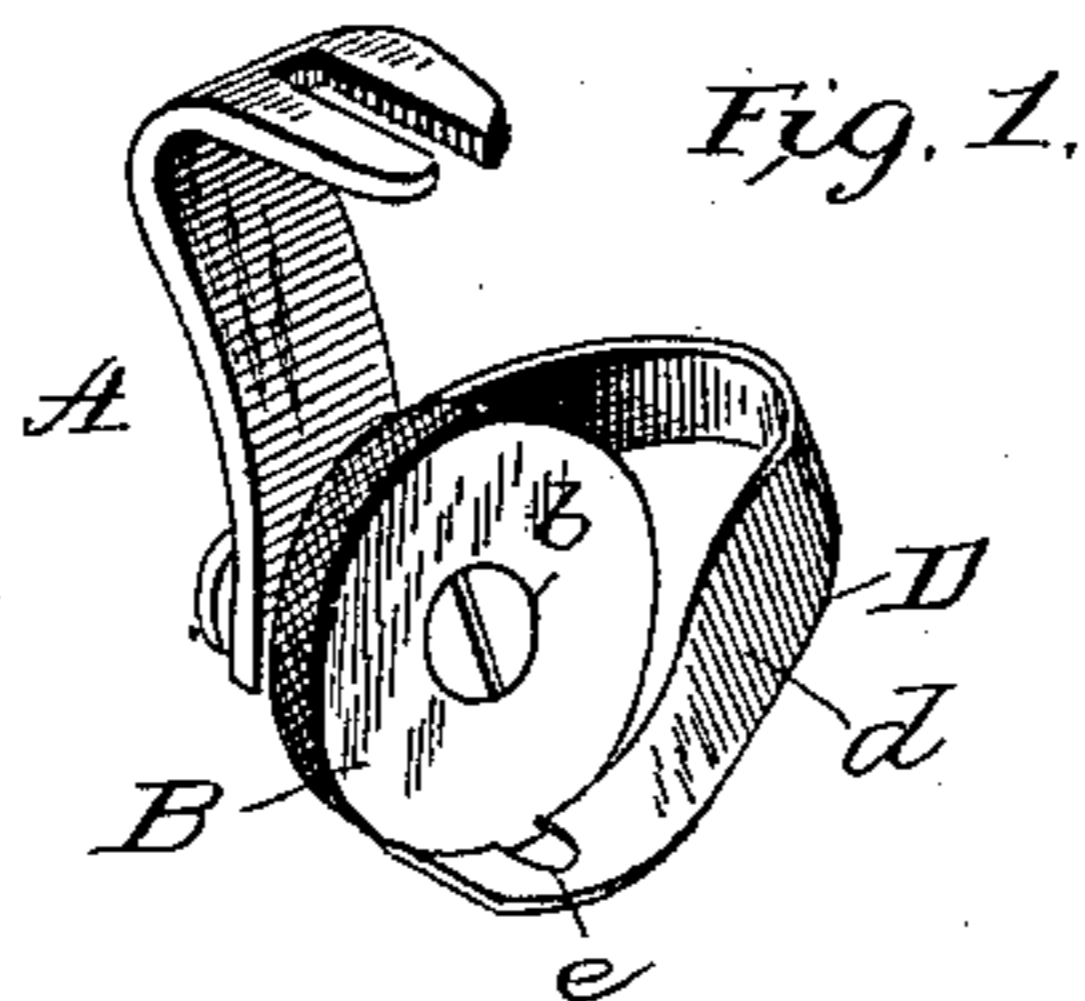


(No Model.)

A. O. VERY.
PRESSER FOOT FOR SEWING MACHINES.

No. 451,347.

Patented Apr. 28, 1891.



Attest
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UNITED STATES PATENT OFFICE.

ALPHA O. VERY, OF BOSTON, MASSACHUSETTS.

PRESSER-FOOT FOR SEWING-MACHINES.

SPECIFICATION forming part of Letters Patent No. 451,347, dated April 28, 1891.

Application filed November 16, 1888. Renewed March 3, 1891. Serial No. 383,561. (No model.)

To all whom it may concern:

Be it known that I, ALPHA O. VERY, of Boston, in the county of Suffolk and State of Massachusetts, have invented a new and useful
5 Improvement in a Presser-Foot for Sewing-Machines; and I do hereby declare that the following is a full, clear, and exact description of the same.

My invention is an improved presser-foot
10 for sewing-machines. I have designed it particularly for use in connection with the improved sewing-machine which is the subject of Letters Patent No. 423,351, dated March 11, 1890; but its use is not necessarily limited to
15 such a machine.

The invention is shown in the accompanying drawings, in which—

Figure 1 is a perspective view of the improved foot. Fig. 2 is a plan view of the foot.
20 Fig. 3 is a front view of the foot in place.

In the drawings, A represents an arm such as shown in my said patent, on the lower end of which is the revolving presser foot or roller B. This roller turns upon a screw-stud *b*, the
25 reduced and threaded end of which passes through the lower end of the arm A and is held by a nut *c*. I do not limit myself, however, to the means of supporting the roller, as other means may be provided without departing from the spirit of my invention. The
30 roller, which is milled, as usual, on its periphery, serves the purpose of carrying the foot over seams or uneven surfaces. The flat presser-foot is made of a single strip of thin metal, and is marked D. It is bent in the form approximately of the letter U, and one end of it has nearly a quarter-turn to bring it approximately in a plane at right angles to the other
35 end, and this partially-turned end is adapted to bear on the fabric or other article to be sewed. It is provided with a notch or opening *e* for the passage of the needle or needles. The other end is formed with an open slot adapted to slip over the reduced end of the
40 screw and be clamped by the nut between the lower end of the arm and a washer *f*, so as to hold it rigidly in place. When so held in place and properly arranged, the partially-

turned end lies close to the side of the roller, but not so near as to interfere with its free
50 turning. This end is also rounded upward, so as to conform to the periphery of the roller, and forms with said periphery a bearing-surface or combined presser-foot, the lower surface of the spring presser-foot being flush, or
55 approximately so, with the surface of the roller. This strip, being of thin steel or other metal, gives a sufficient vertical elasticity for the purpose and adapts it to keep the work pressed down even, so that the seam shall be
60 even and true. It also prevents the vibration of the material being sewed.

The precise construction of the presser-foot is not material, though that shown is the best form which I have been able to devise, it being simple and effective. 65

In a two-needle machine such as that shown I have found, especially in heavy work, that the ordinary roller-presser is not sufficient to hold the work smoothly, as the outer needle
70 has a tendency in its upward movement to draw the work with it, and thus render liable the breaking of the thread. I thus found it necessary to provide an additional presser-foot arranged alongside of the roller, so as to
75 bear upon the material in a direct line with the needles, so as to press the work evenly and prevent any upward movement in the corresponding movement of the needles.

I claim as my invention— 80

A presser-foot for sewing-machines, consisting of a roller-presser and a supplemental presser formed of a strip of material having one end in front of the presser-roller in horizontal plane and the body portion bent into
85 substantially U shape and twisted, the other end being in vertical plane and attached to a support in rear of the roller-presser, substantially as described.

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

ALPHA O. VERY.

Witnesses:

C. H. WELCH,
RODNEY LUND.