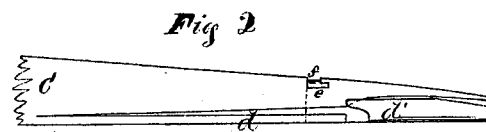
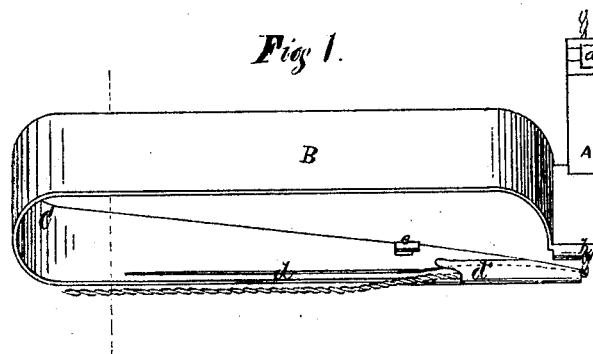


N. BARNUM & R. S. BARNUM.

Improvement in Cording Attachments for Sewing-Machines.

No. 114,254.

Patented May 2, 1871.



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UNITED STATES PATENT OFFICE.

NELSON BARNUM, OF LA PORTE, INDIANA, AND RUSSEL S. BARNUM, OF
CHICAGO, ILLINOIS.

IMPROVEMENT IN CORDING ATTACHMENTS FOR SEWING-MACHINES.

Specification forming part of Letters Patent No. **114,254**, dated May 2, 1871.

To all whom it may concern:

Be it known that we, NELSON BARNUM, of La Porte, county of La Porte, and State of Indiana, and RUSSEL S. BARNUM, of Chicago, county of Cook, and State of Illinois, have invented a new and useful Improvement in Cording Attachments to Sewing-Machines; and we do hereby declare the following to be a full, clear, and exact description thereof, which will enable others skilled in the art to which our invention appertains to make and use the same, reference being had to the accompanying drawing, forming part of this specification, in which—

Figure 1 is a perspective view of our attachment; and Fig. 2 is a top view or plan of the arm employed in holding the cord, showing those parts of the same which are at the right hand of the line *xx*, drawn across Fig. 1.

Similar letters of reference indicate corresponding parts in the several figures of the drawing.

Our invention relates to the mechanism employed in holding the cord while being stitched to the fabric, in connection with a grooved presser-foot, arranged relatively to each other, whereby the cord may be inserted between two layers of the fabric, or within a fold, or planted upon the upper surface thereof in straight or curved lines, retaining the fullness of the cord upon the upper surface of the fabric.

In the drawing, A represents the presser-foot, which is provided with a vertical groove or channel, *a*, into which the lower extremity of the presser-bar is introduced and firmly secured by a set-screw, in the ordinary manner. B is the arm holding the cord, firmly affixed to or made as a part of the presser-foot, and extends backward to a given point horizontally and at a right angle to the presser-bar, and is bent or curved downward and forward, as shown at C, which curved portion extends forward to and in line transversely with the center of the presser-foot.

The lower portion of the said arm is made in two parts by cutting a longitudinal slot through the same, forming a spring, *d*, the connecting-point of which is near the rear or curved end of the arm. Firmly affixed to the forward end of said spring is a metal plate, *d'*, the rear of which is provided, on its side op-

posite to the spring, with a clasp or hook, *e*, which is loosely fitted within a niche, *f*, formed in the side of the arm, by which the said spring is retained in position horizontally with the arm and its lateral movement graduated. The side of said metal plate opposite to the arm is bent in a manner which forms a longitudinal groove or channel, within which the cord is secured, as shown in Fig. 1, the end of the arm being so formed as to come in contact with the cord, thus holding it in proper position within the groove, the elasticity of the spring producing the proper pressure upon the cord, giving thereto the required tension.

We provide the lower surface of the presser-foot with a series of grooves, *h*, arranged laterally with the arm, by which the upper layer of fabric is firmly pressed upon and against the cord in such a manner as to allow the lower fabric to retain a smooth surface, the cord passing through the groove.

In using our attachment, the cord is first drawn into the groove of the plate from its side, the elasticity of the spring being such as to admit of the same, and is then turned to a right angle with the arm and passed under the presser-foot between the separate layers of fabric and the projecting edges of the groove, and is then stitched to or within the fabric in the usual manner.

Having thus described the nature and object of our invention, what we claim as new, and desire to secure by Letters Patent, is—

1. The spring *d*, provided with plate *d'*, when so arranged as to form a longitudinal groove to receive the cord, in combination with arm B, whereby the cord is retained in position, substantially as and for the purpose described.

2. In combination with arm B, the spring *d*, plate *d'*, and presser-foot A, the whole arranged to operate substantially as and for the purpose described.

The foregoing specification of our invention signed by us this 17th day of March, A. D. 1871.

NELSON BARNUM.
RUSSEL S. BARNUM.

Witnesses:

N. C. GRIDLEY,
N. H. SHERBURNE.