

J. G. POWELL.

Corders for Sewing-Machines.

No. 143,589.

Patented Oct. 14, 1873.

FIG. 1.

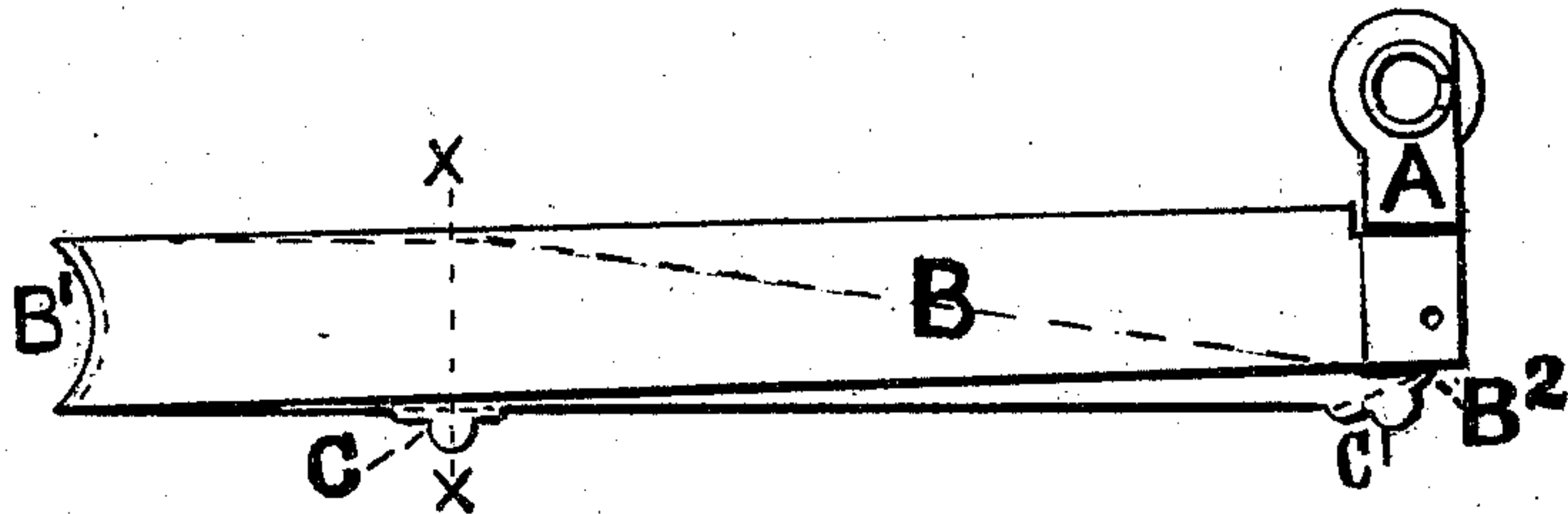


FIG. 2.

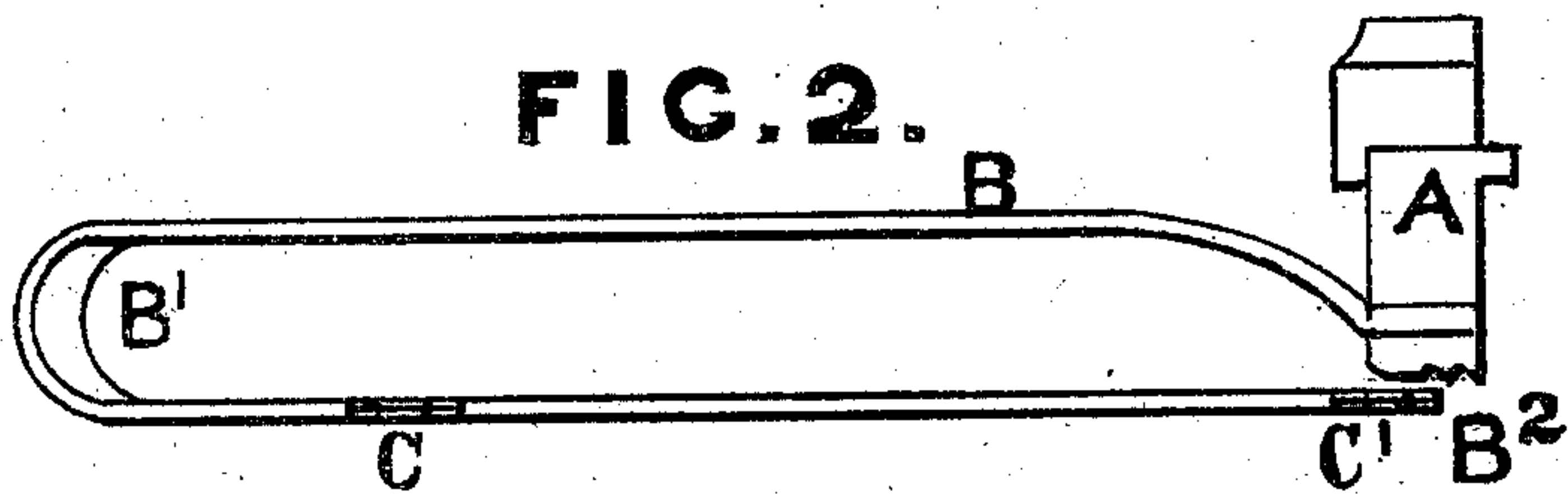


FIG. 3.



WITNESSES.

*James P. Petit*  
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# UNITED STATES PATENT OFFICE.

JOHN G. POWELL, OF PHILADELPHIA, PENNSYLVANIA.

## IMPROVEMENT IN CORDERS FOR SEWING-MACHINES.

Specification forming part of Letters Patent No. 143,589, dated October 14, 1873; application filed August 11, 1873.

*To all whom it may concern:*

Be it known that I, JOHN G. POWELL, of the city and county of Philadelphia and State of Pennsylvania, have invented a new and useful Cording Attachment for Sewing-Machines, of which the following is a specification:

This invention relates to that class of corders in which a recurved spring attached to the presser-foot guides the cord, by suitable eyes, to the fold of the fabric in which it is sewed; and has for its object the easy introduction of the cord into the guides, and the greater certainty of retaining the proper adjustment of the guides, besides a saving of labor in the making of the corder consequent upon its simple construction.

The annexed drawing, which is of actual working size, shows, in Figure 1, a plan of this corder, and in Fig. 2 a front elevation thereof. Fig. 3 is a section on the line X in Fig. 1, four times enlarged.

The same letters of reference apply to the same parts in the several figures.

A represents the presser-foot; B, a recurved spring attached thereto. The spring B formed into one or more corrugations, marked B<sup>1</sup>, at the bend. This stiffens the spring against any lateral maladjustment of the lower end B<sup>2</sup>, but does not interfere with its elasticity in a vertical direction. Instead of soldering or riveting tubes to the spring B, through which the cord must be threaded, I form projections C and C<sup>1</sup> in the same piece of metal

with the spring B. In this projection a groove is sawn horizontally, and the pair of ears C<sup>2</sup> and C<sup>3</sup> (see Fig. 2,) are bent so as to form a guide, in and from which the cord may be introduced or withdrawn laterally, the elasticity of the ears C<sup>2</sup> and C<sup>3</sup> being such as to yield in these operations and yet hold it during the sewing process by forming the guides C in the manner described.

The following advantages are secured: They are made with less labor, and, being immovable, cannot be put out of adjustment.

The elasticity of the spring B and ears C<sup>2</sup> and C<sup>3</sup> is unimpaired by the heat incident to the soldering process; and the cord is introduced and removed with a facility impossible with tubular guides.

I do not, broadly, claim to have invented a cording attachment with a recurved spring attached to the presser-foot of a sewing-machine, and bearing-guides directing the cord to the place of sewing, the same having been heretofore made and used; but

What I do claim as my invention is—

The corder herein described, consisting of the spring B attached to the presser, corrugated at B<sup>1</sup>, and provided with the open guides C and C<sup>1</sup> having guiding-ears, as shown, all being constructed and operating as set forth.

JOHN G. POWELL.

Witnesses:

JAMES P. PETT,  
GEO. R. JEFFERSON.