

J. O. FAIRBAIRN.

Ruffling Attachment for Sewing Machines.

No. 94,299.

Patented Aug. 31, 1869.

Fig: 1.

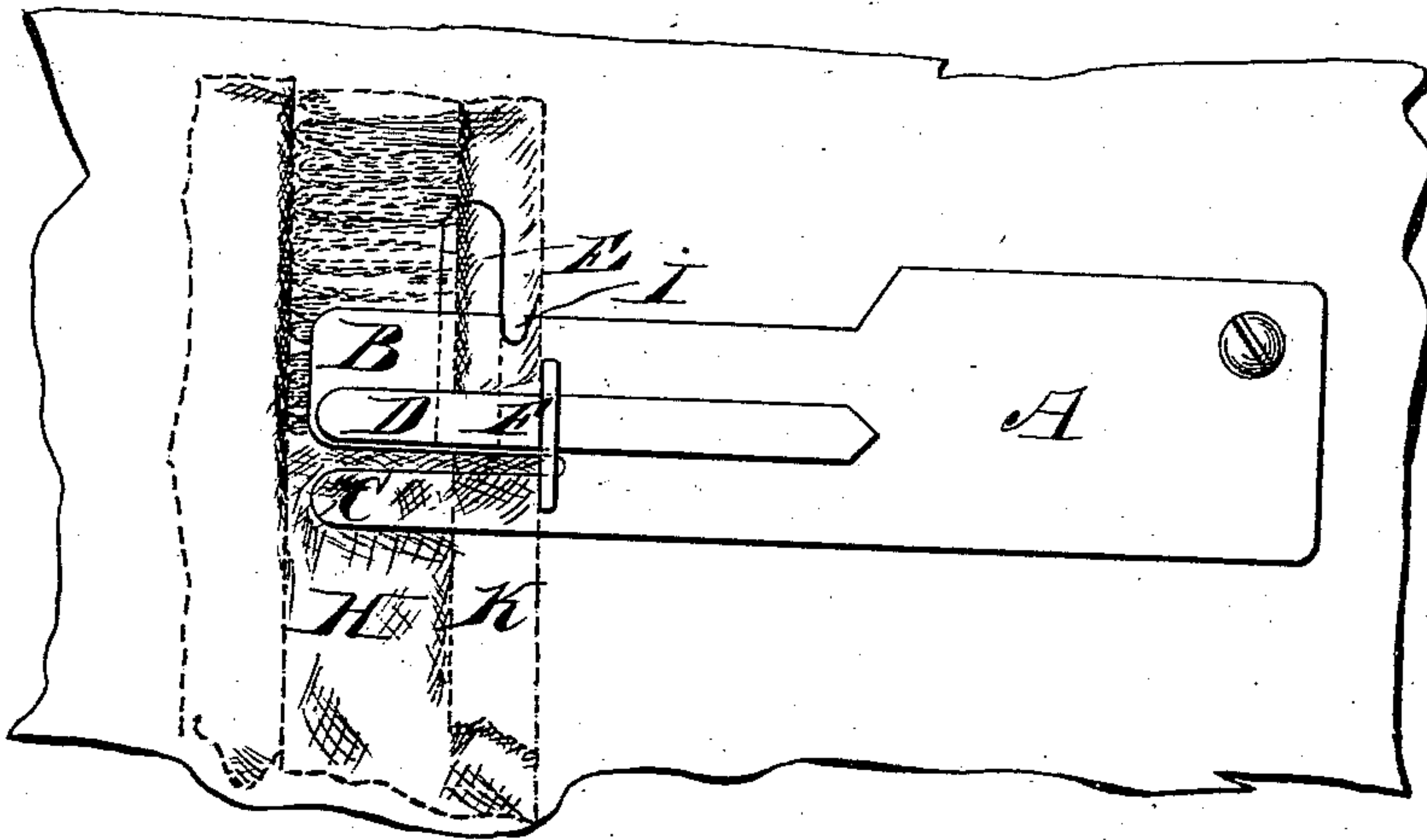
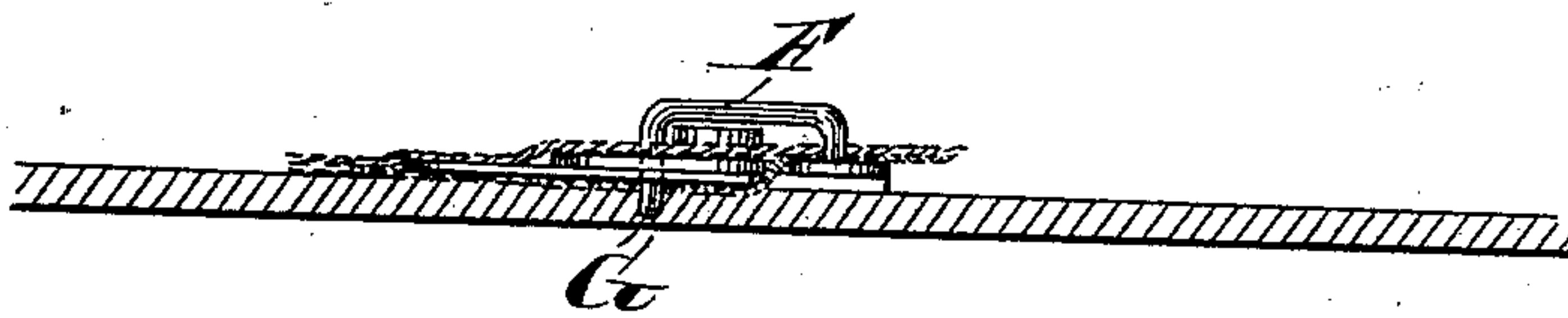


Fig: 2.



Witnesses:

Orinichman
Geo. W. Mabel

Inventor:

J. O. Fairbairn

Wm. M. Co
Attorneys

United States Patent Office.

JOHN O. FAIRBAIRN, OF MILWAUKEE, WISCONSIN, *

Letters Patent No. 94,299, dated August 31, 1869.

IMPROVEMENT IN RUFFLING-ATTACHMENT FOR SEWING-MACHINES.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, JOHN O. FAIRBAIRN, of Milwaukee, in the county of Milwaukee, and State of Wisconsin, have invented a new and improved Ruffler; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification.

This invention relates to improvements in rufflers, whereby it is designed to provide an improved ruffling-device, adapted to the Howe and other sewing-machines, so arranged, that by it ruffling may be done without changing the thread-tension adjusted when for ordinary sewing, as is required to be done with the ruffling-devices now in use.

Figure 1 represents a plan view of my improved ruffler, as applied to a sewing-machine, also showing the application to the work, and

Figure 2 represents an end view of the same.

Similar letters of reference indicate corresponding parts.

A represents the body of the instrument, consisting of a plate of thin metal, adapted to be attached by a set-screw to the table of the machine, and having at one end a wide tongue, B, and a narrow tongue, C, with a narrow slot between them; also, another narrow tongue, D, fastened beyond the end of the slot to the upper surface of the said plate, so that its free end projects over the wide tongue, with one edge parallel with the edge of the said wide tongue, forming the wall of the slot.

E represents another tongue, projecting from the under side of the wide tongue B, at right angles thereto, and parallel with the seam to be formed.

F represents a bridge of wire, serving as a guide for the work, and one end projects through the plate, as shown at G, serving as a stud to stay the plate, by taking into a hole in the table.

H represents, in red, the strip to be ruffled. It is fed over the tongue C, under the wide tongue B, and over the feeder, whereby it is ruffled as it is shoved along past the needle, working through the notch I.

K represents the band to be sewed on, which is fed over the tongues C and B, and under the tongue D, and is prevented by the wide tongue B from coming in contact with the feeder.

When the ruffler is attached to the machine, and the cloth to be ruffled, and the band or strip to which it is to be sewed, are properly adjusted, the presser-foot of the machine is brought down, and rests upon the tongue E, which latter prevents the feed from coming in contact with the band or upper strip of cloth.

As the feed is operated, it takes hold upon the under strip H, and moves it along, until the ratchet or feed has moved nearly its entire distance, without stirring the band K; but as the feed passes from under the tongue E, it operates upon both pieces of the cloth, moving them together the distance of a stitch. At the same time, the tongue E rests between the two pieces of cloth, with its inner edge directly alongside of the seam, and thus operates as a guide, to keep the cloth in a direct line; the operator drawing the seam over against the inner edge of the tongue E, and keeping it there as it proceeds.

It is obvious that the tongue E, instead of being soldered to the part B, may be made solid with B, by simply cutting the latter in such a form as to leave E projecting from the side thereof, at the proper point.

I am aware that various styles of rufflers have heretofore been made of plates of metal arranged somewhat similar to mine, as shown by patent No. 83,592; but none have been made with the projecting guide E.

Having thus described my invention,

What I claim, is—

A ruffler for sewing-machines, consisting of the plates B, C, and D, with the guide E connected to the plate B, and serving to guide the material, by bearing against the seam, all arranged as herein described.

JNO. O. FAIRBAIRN.

Witnesses:

H. P. ELLIS,

ROBT. BRIMER.

* Assn. to Amasa C. Kasson & Francis W. Hayes, of same place