

(Model.)

W. P. BROSIUS.

SEAM GAGE FOR SEWING MACHINES.

No. 247,008.

Patented Sept. 13, 1881.

Fig. 1.

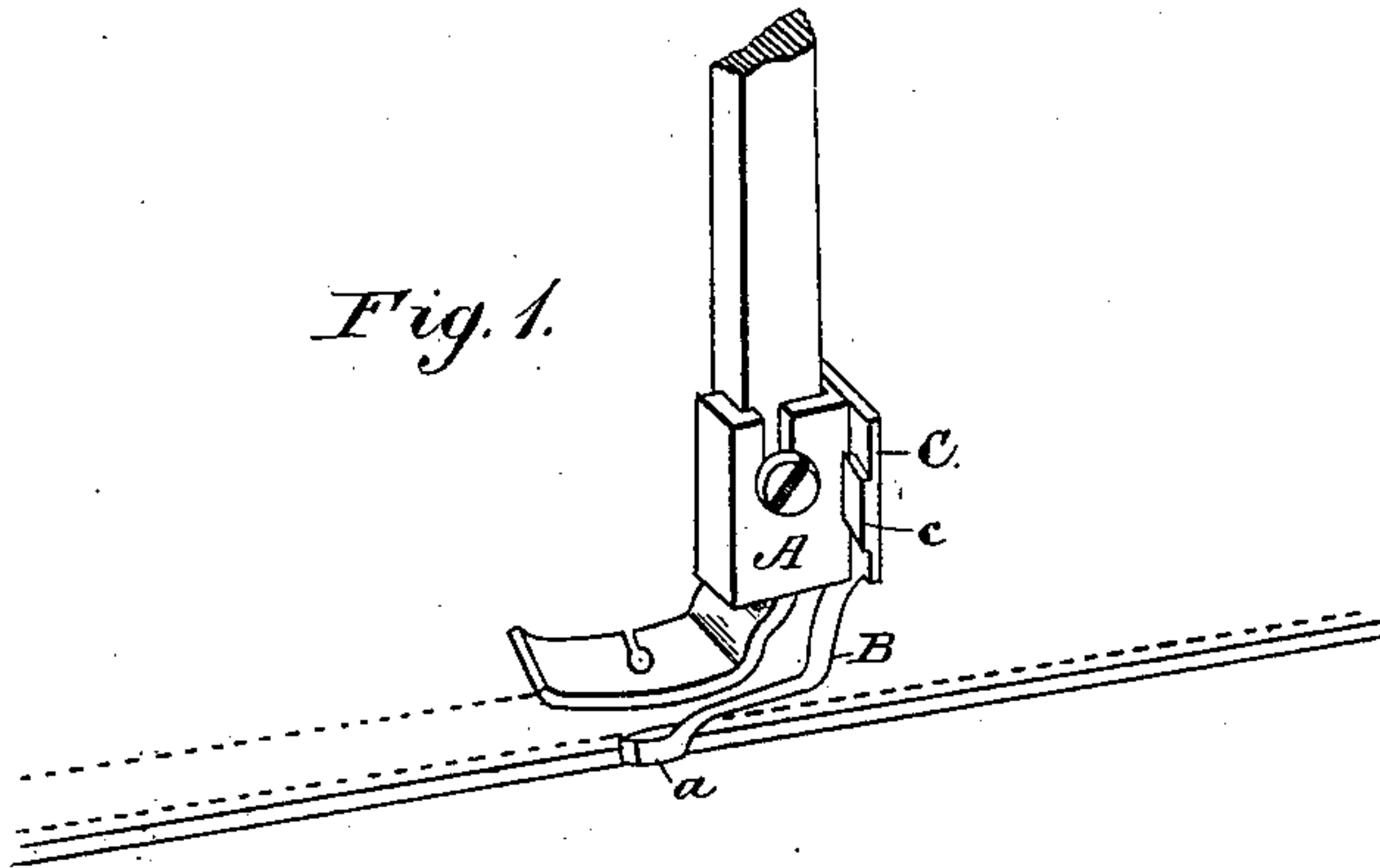


Fig. 2.

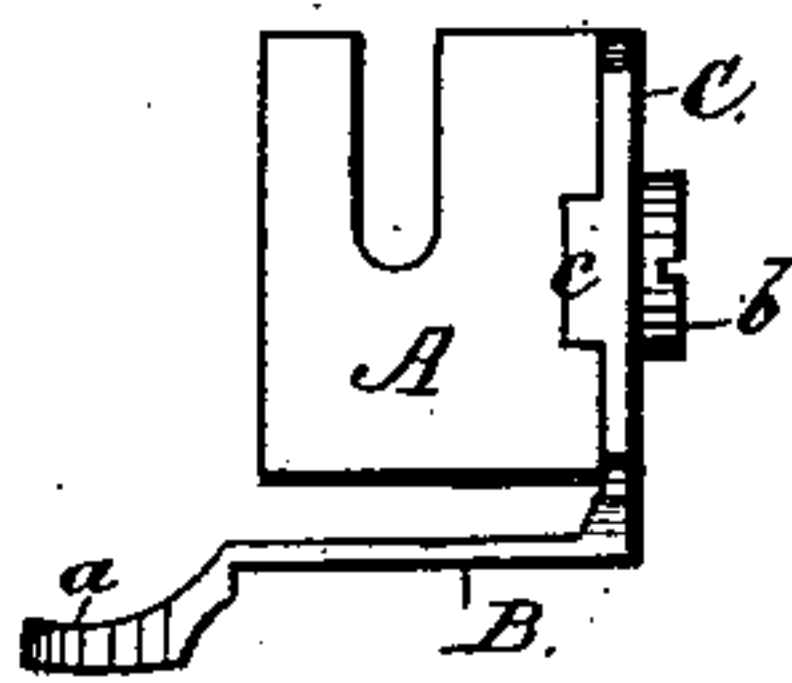
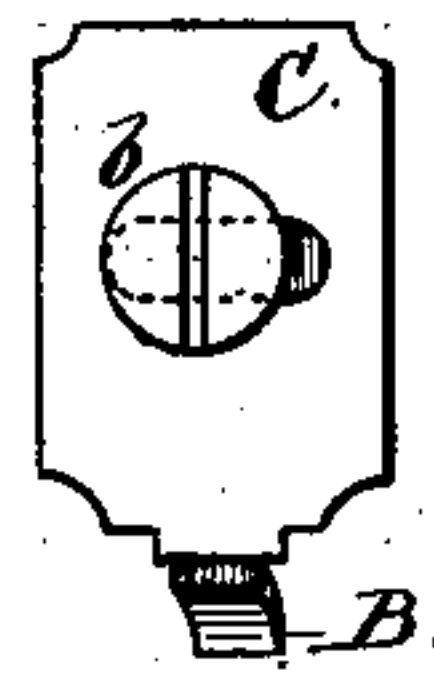


Fig. 3.



WITNESSES:

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SEAM-GAGE FOR SEWING-MACHINES.

SPECIFICATION forming part of Letters Patent No. 247,008, dated September 13, 1881.

Application filed March 10, 1881. (Model.)

To all whom it may concern:

Be it known that I, WILLIAM P. BROSIUS, of Richmond, in the county of Henrico and State of Virginia, have invented a new and Improved Seam-Gage for Sewing-Machines; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a perspective view, showing my attachment applied to the presser-foot of a sewing-machine and in position for determining the width of the seams following the first. Fig. 2 is a side, and Fig. 3 a rear, view of the device.

In sewing two pieces of leather together guides have heretofore been used for determining the amount of lap in the seam while the first row of stitching is being made. As an example of this device I would refer to my patent of even date with this, in which I have described and claimed such a device.

The object of my present invention is to provide a device which shall enable the operator to run subsequent rows of stitching in parallel position to and at regulated distances from the first; and to this end my invention consists in a peculiar construction and arrangement of a gage composed of a spring-arm with a stop or guide-lug at its lower end, a horizontally-adjustable slide carrying said arm, and a block adapted to be attached to the presser-foot, which block is connected to the adjustable slide by a set-screw and a rib or groove, which prevent the slide from turning axially about the set-screw, as hereinafter fully described.

In the drawings, A represents the metal block or plate, which is to be detachably fastened to the lower end of the presser-foot bar by a set-screw.

B is a horizontal spring-arm, bearing an enlargement or lug, *a*, at its end, which forms a guide-stop that rests against the edge of the material forming the upper lap of the seam. This horizontal arm is formed with or attached to a plate, C, on the rear side of block A, and is connected thereto adjustably, so that the arm can be moved at right angles to the line of stitching to determine the distance the second row shall be from the first or the third from the second. For connecting this plate adjustably to the back part of the block A

said plate is slotted horizontally, as in Fig. 3, and a set-screw, *b*, passed through said slot into the block; and to hold the said plate against turning on the set-screw as a center, the face of the plate next to the block is formed with a horizontal rib, *c*, that fits in a corresponding depression in the adjacent face of the block.

The lug *a*, it will be seen, rests against the edge of the material, and forms a gage, which regulates the distance between the second and succeeding rows and the said edge, and by adjusting the arm with this stop lug or gage in a direction at right angles to the line of stitching all succeeding rows of stitches are preserved parallel to the first or the edge of the upper lap of the material, each line of stitching requiring, however, a new adjustment of the arm through its slot and set-screw.

In defining my invention more clearly, I would state that I am aware that it is not new to attach a seam-gage to the presser-foot bar of a sewing-machine, and I therefore do not claim this broadly.

The distinctive features of my invention are the springing character of the arm B, which is arranged to spring vertically, but not laterally, and the connection of the plate C to block A by a rib or groove, which prevents the turning of the plate C on its set-screw as a center. This vertical springing of arm B and connection between plate C and block A enable the guide to pass over cross-seams or increased thicknesses of material in a self-adjusting manner without turning the plate C on its set-screw, which would leave guide *a* in an inoperative position.

Having thus described my invention, what I claim as new, is—

An attachment to sewing-machines for gaging and running parallel seams, consisting of the combination of a block, A, adapted to be fitted to the presser-foot, a horizontally-sliding plate, C, slotted and connected to block A adjustably by a set-screw and a rib-and-groove connection, *c*, and the arm B, with guide-lug *a*, arranged to spring vertically, but not laterally, and connected to the sliding plate C, all substantially as shown and described.

WILLIAM P. BROSIUS.

Witnesses:

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W. P. SEAY.