

S. W. Brown.
Composing Stick.

Nº 28436.

Patented May 22 1860.

Fig. 1.

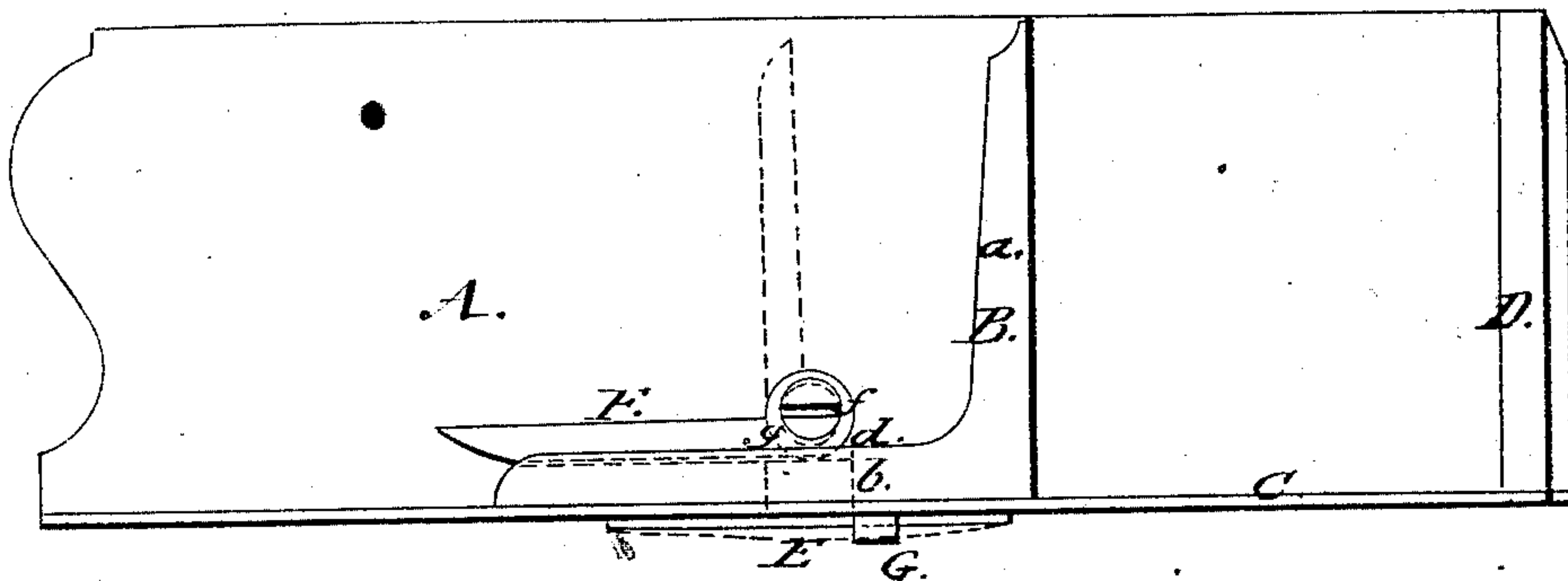


Fig. 2.

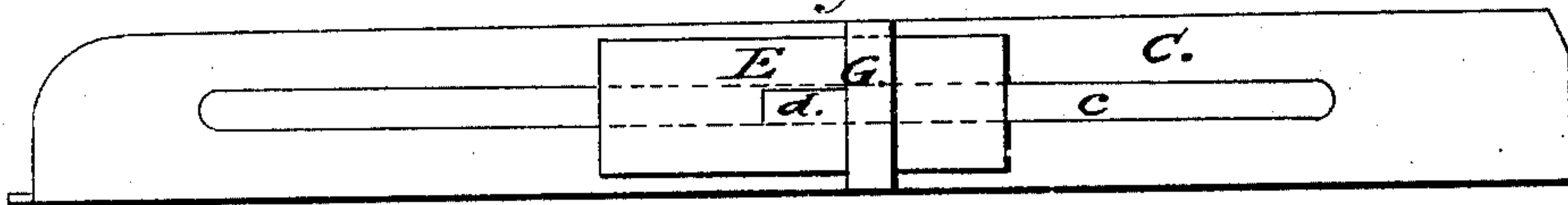
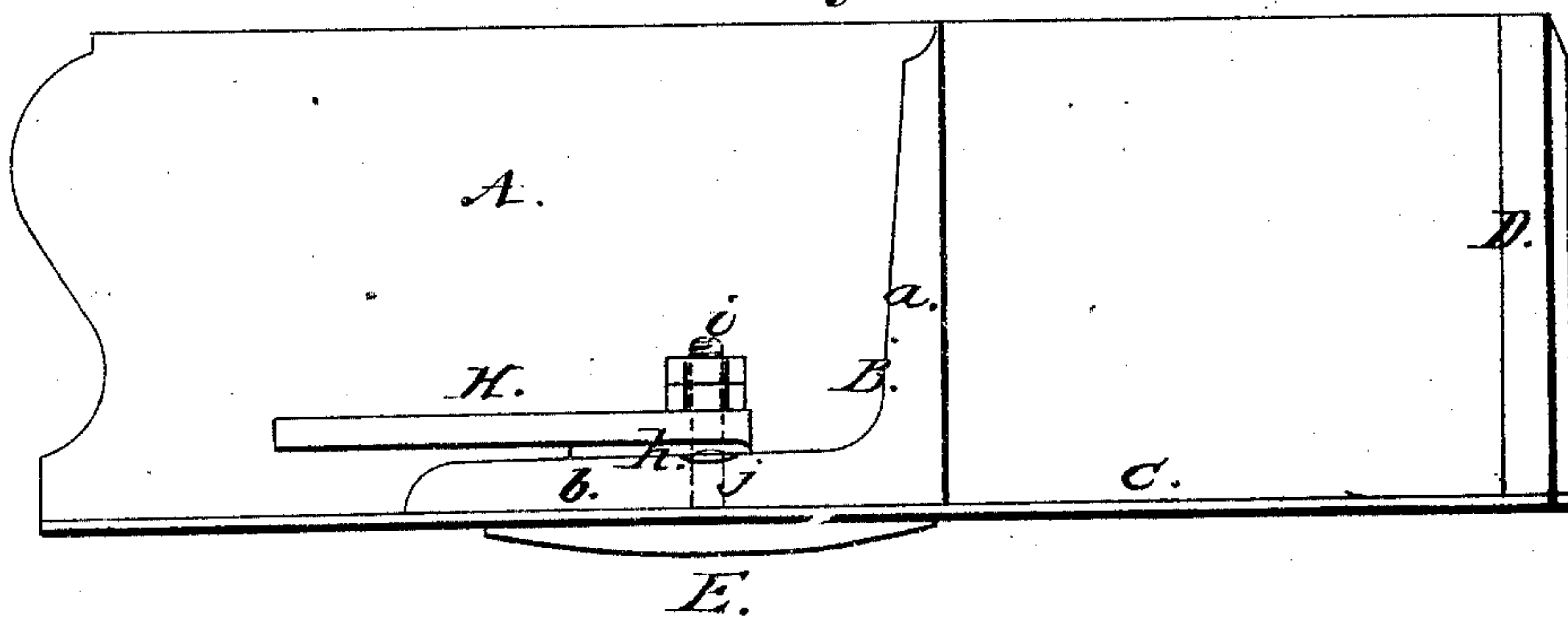


Fig. 3.



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UNITED STATES PATENT OFFICE.

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PRINTER'S COMPOSING-STICK.

Specification of Letters Patent No. 28,436, dated May 22, 1860.

To all whom it may concern:

Be it known that I, STEPHEN W. BROWN, of Syracuse, in the county of Onondaga and State of New York, have invented a new and useful Improvement in Composing-Sticks for Printers; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawings, making a part of this specification, in which—

Figure 1 is a face view of my invention. Fig. 2 is a side view of the same. Fig. 3 is a face view of a portion of the same, showing a modification of Fig. 1.

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

This invention relates to an improved means for securing the slide at any desired point within the range of its movement in the stick.

The invention consists in the employment or use of an eccentric, and elastic plate, connected with the slide and applied to the side of the stick substantially as hereinafter described whereby the slide may be readily adjusted and secured at any point without being liable to move casually; the stick at the same time being provided with a bridge or brace, one or more, so arranged, or applied to the slotted side-piece as to render the same strong and durable.

To enable those skilled in the art to fully understand and construct my invention I will proceed to describe it.

A represents a composing stick; B, its shell; C, the side-piece, and D, the end-piece.

The above parts may be of the usual proportion, and they are disposed or arranged in the ordinary way. The slide B, is constructed of one piece of right angular form, the part *a*, being parallel with the end-piece D, and the part *b*, being in contact with the side-piece C, as shown clearly in Fig. 1. The side-piece C, is slotted longitudinally, as shown at *c*, in Fig. 2, and E, is an elastic plate, which bears against the outer surface of the side-piece C, and has a tongue *d*, attached, which tongue passes through the slot *c*, and also through the part *b*, of the slide. The tongue *d*, has a hole made through it near its end, and the inner end of a small lever F, is secured to it by a screw

f, said screw passing through a hole in the inner end of the lever and the hole in the tongue *d*.

The inner end of the lever F, is an eccentric, as shown clearly at *g*, in Fig. 1, and the eccentric *g*, is so formed that when the lever F, is turned down in contact with *b*, the eccentric will draw the plate E, in close contact with the side piece C, and firmly clamp the slide in the desired position. When the lever F, is turned up, as shown in red, the Plate E, by its elasticity assumes its former position, the side piece C, being relieved of the pressure of plate E, and the part *b*, relieved of the pressure of the eccentric *g*; the side may then be moved to the desired point in the stick.

The side-piece C, in consequence of being slotted longitudinally as shown is of course weakened to some extent and if not protected in some way would be liable to bend. This contingency is avoided by the employment or use of a bridge or brace G, one or more, which connects the two sides or parts of the side-piece C, made by the slot *c*, the bridge or brace extending sufficiently out from the side-piece to allow the plate E, to pass or work between the bridge or brace and the side piece, as shown clearly in Fig. 1.

Instead of having a lever F, arranged with an eccentric *g*, to move in a plane parallel with the bottom or bed of the stick, a lever H, may be employed, as shown in Fig. 3, with a projection *h*, at its side, the lever H, being fitted on a cylindrical tongue *i*, so as to move in a plane parallel with the side-piece C, the outer side of the part *b*, of the slide having a recess or hollow *j*, made in it to receive the projection *h*, when the lever H, is moved upward, so as to relieve the plate E, and part *b*, of the slide of pressure, the projection *h*, when the lever H, is turned down serving to clamp the part *b*, of the slide, precisely the same as the eccentric *g*, of lever F.

By this invention therefore the slide of the composing stick may be firmly secured in position, and the clamping or fastening device readily manipulated. The side-piece C, is also rendered stiff and durable, the bending of the same being effectually prevented by the bridge or brace in connection with the elastic plate, which gives a good

bearing surface at the outer side of the side-piece C.

Having thus described my invention, what I claim as new, and desire to secure by
5 Letters Patent, is—

1. The employment or use of the elastic plate E, placed at the outer side of the side-piece C, provided with a tongue *d*, passing
10 through the side-piece and part *b*, of the slide, and having attached a lever F, provided with an eccentric *g*, arranged as

shown or in an equivalent way for the purpose set forth.

2. In connection with the plate E, slide B, lever F, and its eccentric, the bridge or 15 brace G, attached to the slotted side-piece C, substantially as and for the purpose set forth.

STEPHEN W. BROWN.

Witnesses:

B. GIROUXE,
M. M. LIVINGSTON.