(No Model.)

H. SEGER.

COMPOSING STICK.

No. 339,076. Patented Mar. 30, 1886.

Fig. 1

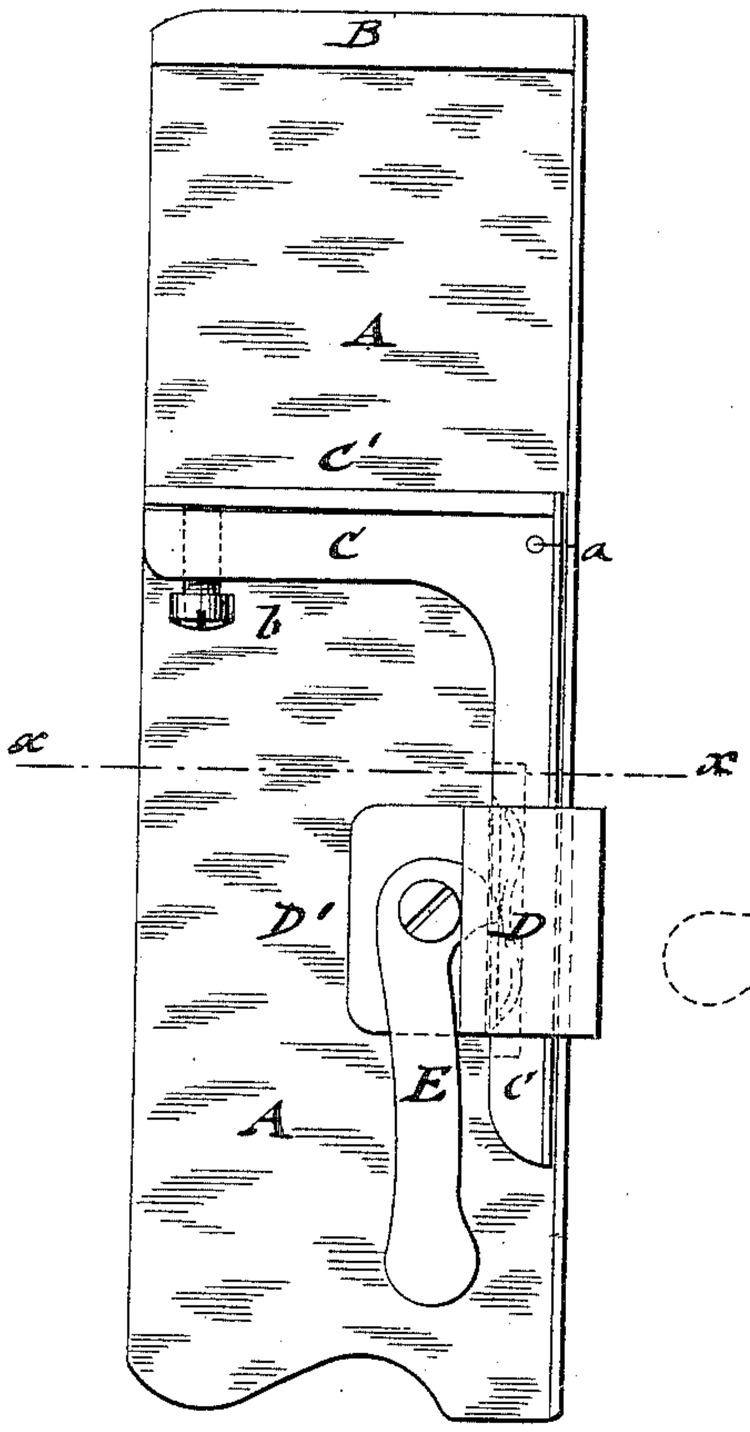


Fig. 2

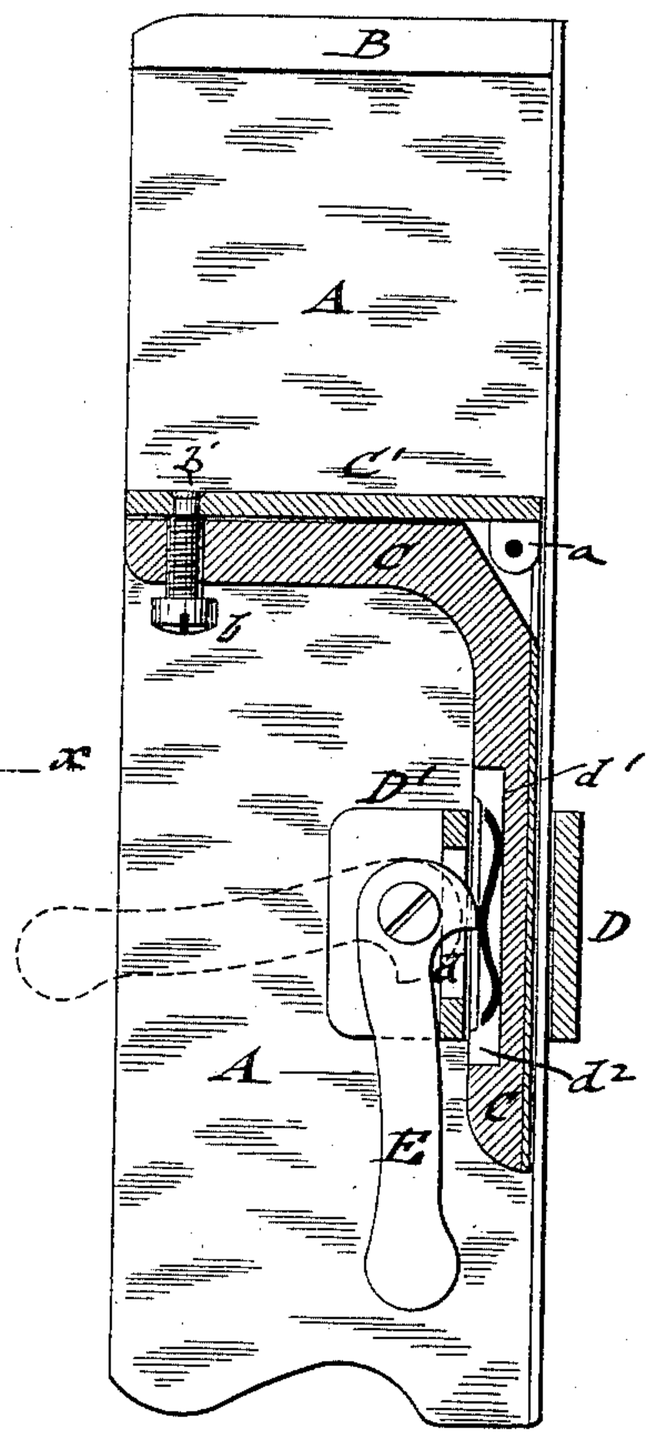


Fig. 3

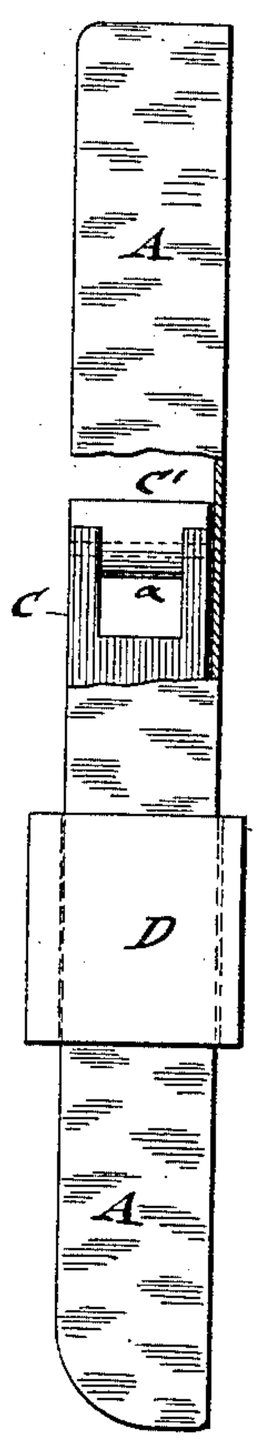
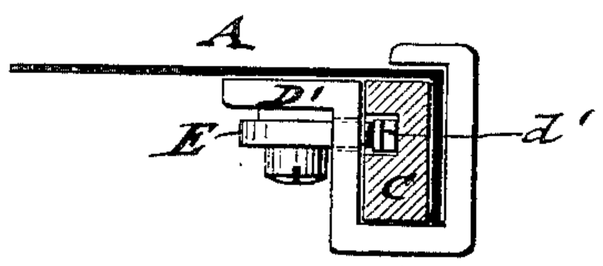


Fig. 4.



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UNITED STATES PATENT OFFICE.

HENRY SEGER, OF NEW YORK, N. Y., ASSIGNOR OF ONE-HALF TO FERDINAND WESEL, OF SAME PLACE.

COMPOSING-STICK.

SPECIFICATION forming part of Letters Patent No. 339,076, dated March 30, 1886.

Application filed July 21, 1884. Serial No. 138,279. (No model.)

To all whom it may concern:

Be it known that I, HENRY SEGER, of the city, county, and State of New York, have invented certain new and useful Improvements in Composing-Sticks, of which the following is a specification.

This invention has reference to certain improvements in composing-sticks, whereby the type-retaining head-piece and knee-piece can always be kept at a proper distance from each other, even when the latter is worn by long use, and in which the knee-piece is quickly and reliably secured to the frame of the composing-stick; and the invention consists of a composing-stick in which the movable knee-piece is provided with a steel face that is hinged to the corner of the knee, and adjusted at the other end by a set-screw into a position parallel to the fixed head-piece.

The invention consists, secondly, of the combination, with the angular frame of the composing-stick and the movable knee-piece, of a U-shaped clamp that extends around the knee-piece and the side flange of the angular frame, a cam-lever fulcrumed to said clamp, and a spring that is interposed between the cam-lever and knee-piece, so as to clamp the knee-piece to the frame or release it therefrom to admit its adjustment on the frame.

In the accompanying drawings, Figure 1 represents a side elevation of my improved composing-stick. Fig. 2 is also a side elevation, partly in section; Fig. 3, an end elevation with a portion broken away; and Fig. 4 is a horizontal section on line *x x*, Fig. 1.

Similar letters of reference indicate corresponding parts.

A in the drawings represents the angular frame of my improved composing-stick. This frame is made of sheet-iron of suitable thickness, and provided at one end with a fixed steel head-piece, B.

The movable knee-piece C of the composing-stick is guided along the side flange of the frame A, and provided with a steel face, C′, which is hinged at *a* to the corner of the knee-piece, and adjusted at the outer end by a set-screw, *b*, that bears by a shoulder, *b′*, on the under side of the steel face C′, so as to raise the same by the adjusting-screw, while the thinner end of the screw passes through a hole of the steel face and engages the same by a slightly-enlarged head, as shown in Fig. 2, so as to move the steel face back toward the knee-piece C. By this arrangement the steel face C′ may be set into a position parallel to the head-piece B, even when worn by use, so that the head-piece and knee-piece C are always at the proper distance from each other as required for the columns to be set up. In this manner the composing-stick can be used for a greater length of time, as the wear at the outer end of the knee-piece can be compensated in an accurate and effective manner.

The lower arm of the knee-piece C is retained on the angular frame A by a U-shaped clamp, D, which extends around the side flange and bottom of the frame A, as shown in Fig. 4, and which is provided at its inner side with an extension, D′, to which is fulcrumed a cam-lever, E. The eccentric portion of the cam-lever E passes through a slot, *d*, of the clamp D, and bears upon a curved band-spring, *d′*, which acts in the nature of a washer, said band-spring *d′* being located in a recess, d^2, of the longer leg of the knee-piece C.

When the cam-lever E is turned up, as shown in dotted lines in Fig. 2, the cam-lever is released from the spring and moved into such a position that it will clear the knee-piece C. By swinging the lever E downward the cam is moved inwardly, so as to compress the spring and exert a rigid clamping action upon the movable knee-piece, clasp, and frame, retaining thereby the knee-piece rigidly in position on the frame. As the lever is swung somewhat beyond a line drawn through the center of the fulcrum parallel to the side flange of the supporting-frame, it locks the knee-piece rigidly to the frame until the cam is released from the knee-piece.

The cam-lever E is easily operated, and forms with the clamp D a very reliable and durable device for locking the knee-piece to the frame of the composing-stick.

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

1. The combination, in a composing-stick, of a supporting-frame having a fixed head-piece with a movable knee-piece provided with an adjustable steel face, substantially as set forth.

2. The combination of the supporting-frame, having a fixed head-piece, with a movable knee-piece having a steel face hinged to the corner of the knee-piece, and provided at the other end with a set-screw that engages the steel face, substantially as set forth.

3. The combination of the supporting-frame having a fixed head-piece, a movable knee-piece, a flanged U-shaped clamp extending around the knee-piece and the side flange of the frame, a cam-lever fulcrumed to the clamp, and a spring interposed between the cam of the clamping-lever and the leg of the movable knee-piece, substantially as set forth.

In testimony that I claim the foregoing as my invention I have signed my name in presence of two subscribing witnesses.

HENRY SEGER.

Witnesses:
PAUL GOEPEL,
SIDNEY MANN.