

L. BUSCHMANN.
Composing-Sticks.

No. 143,875.

Patented Oct. 21, 1873.

Fig. 1.

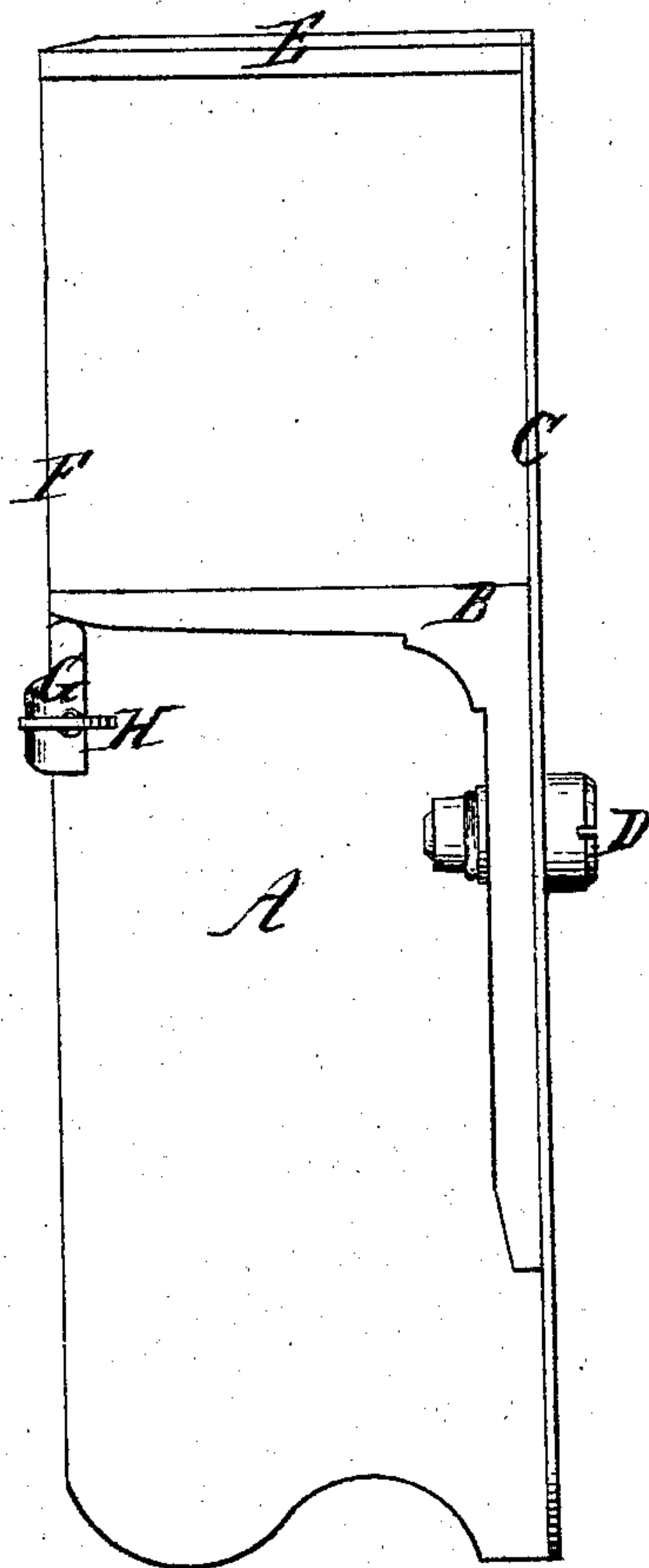
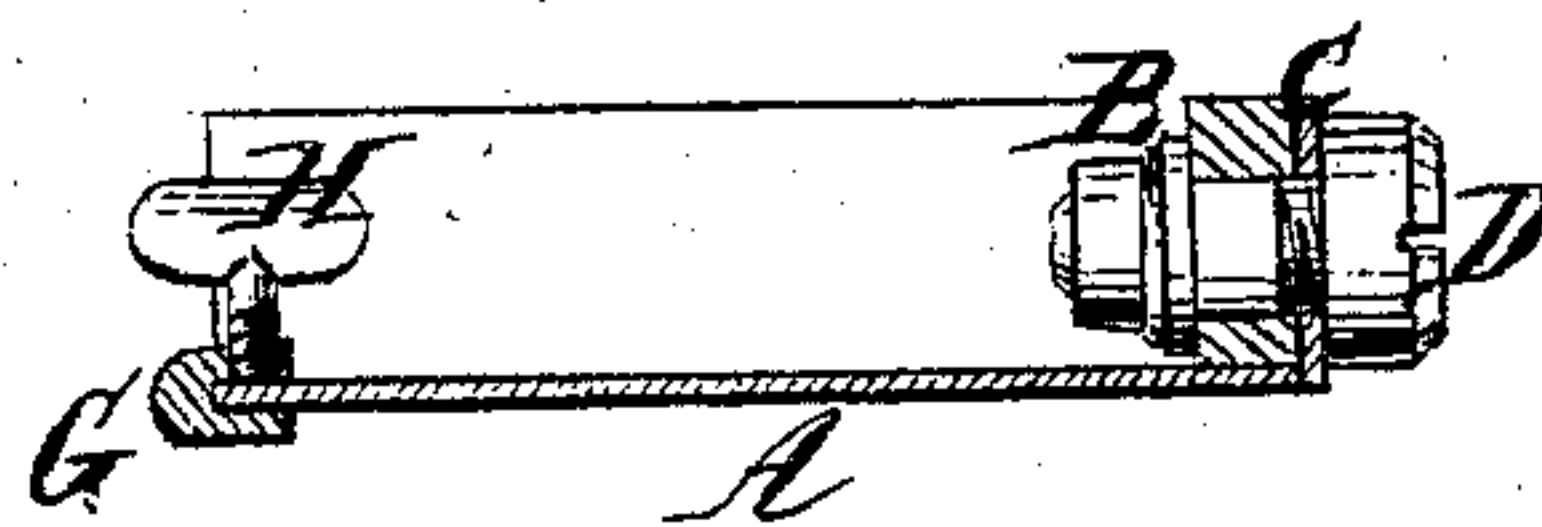


Fig. 2.



a. H. Norris.
J. C. Wildman.

L. Buschmann
By Van Santvoord & Co. attys.

UNITED STATES PATENT OFFICE.

LEOPOLD BUSCHMANN, OF NEWARK, NEW JERSEY, ASSIGNOR TO WILLIAM QUAIL, OF NEW YORK, N. Y..

IMPROVEMENT IN COMPOSING-STICKS.

Specification forming part of Letters Patent No. **143,875**, dated October 21, 1873; application filed September 4, 1873.

To all whom it may concern:

Be it known that I, LEOPOLD BUSCHMANN, of Newark, in the county of Essex and State of New Jersey, have invented a new and useful Improvement in Composing-Sticks; and I do hereby declare the following to be a full, clear, and exact description thereof, which will enable those skilled in the art to make and use the same, reference being had to the accompanying drawing forming part of this specification, in which drawing—

Figure 1 represents a plan view of a composing-stick containing my invention. Fig. 2 is a transverse section of the same.

Similar letters indicate corresponding parts.

This invention consists in the combination, with a composing-stick, of an adjustable stop arranged behind the "angle" or "knee," for the purpose of holding it steady and preventing it from being sprung away from the head of the stick when the composer, in setting up the type in the stick or in justifying the lines, causes pressure to be made against the angle.

The letter A designates a composing-stick, and B the angle or knee, which is adjusted along the back C of the stick, at the proper distance from the "head," according to the width of the column for which the matter is intended. The angle is secured to the back by the set-screw D, in the usual manner. As the "composer" fills up his stick, and afterward justifies the several lines between the head E of the stick and the angle B, the pressure of the successive lines against the angle causes the "back" C, to which the angle is secured, to give or "spring;" and this action or tendency increases as the lines approach the outer edge F of the stick, where the leverage against the angle, and consequently against the back C, is greatest. The consequence is that the

lines are made longer toward the end of the angle, and the justification is incorrect or uneven, so that some of the lines are tight and some loose. It is not convenient or practicable to strengthen and thicken the back C sufficiently to prevent this defect in the ordinary composing-stick without thereby making it too heavy to handle. In order to obviate or remedy the difficulty, I provide an adjustable stop, G, upon the outer edge of the stick, behind the angle, and secure it in place by means of a set-screw, H, the body of the stop being formed like a clamp, or recessed, so as to embrace the edge and come over and under the bottom of the stick.

I do not, however, confine myself to any particular mode of forming the stop, or of fastening it in place, or of adjusting it; but my invention embraces any stop applied to the angle or stick, so as to prevent the angle or knee from being pressed out of parallelism with the head. The stop G also acts as a gage, as, for example, when the angle or knee B is moved toward the head of the stick, serving to retain or show the former position of such angle.

What I claim as new, and desire to secure by Letters Patent, is—

The combination, with the angle or knee B of a composing-stick, of an adjustable stop or shoulder, G, to prevent said angle or the back from yielding to the pressure of the type as the lines are composed or justified, substantially as described.

This specification signed by me this 28th August, 1873.

LEOPOLD BUSCHMANN.

Witnesses:

E. F. KASTENHUBER,
CHAS. WAHLERS.