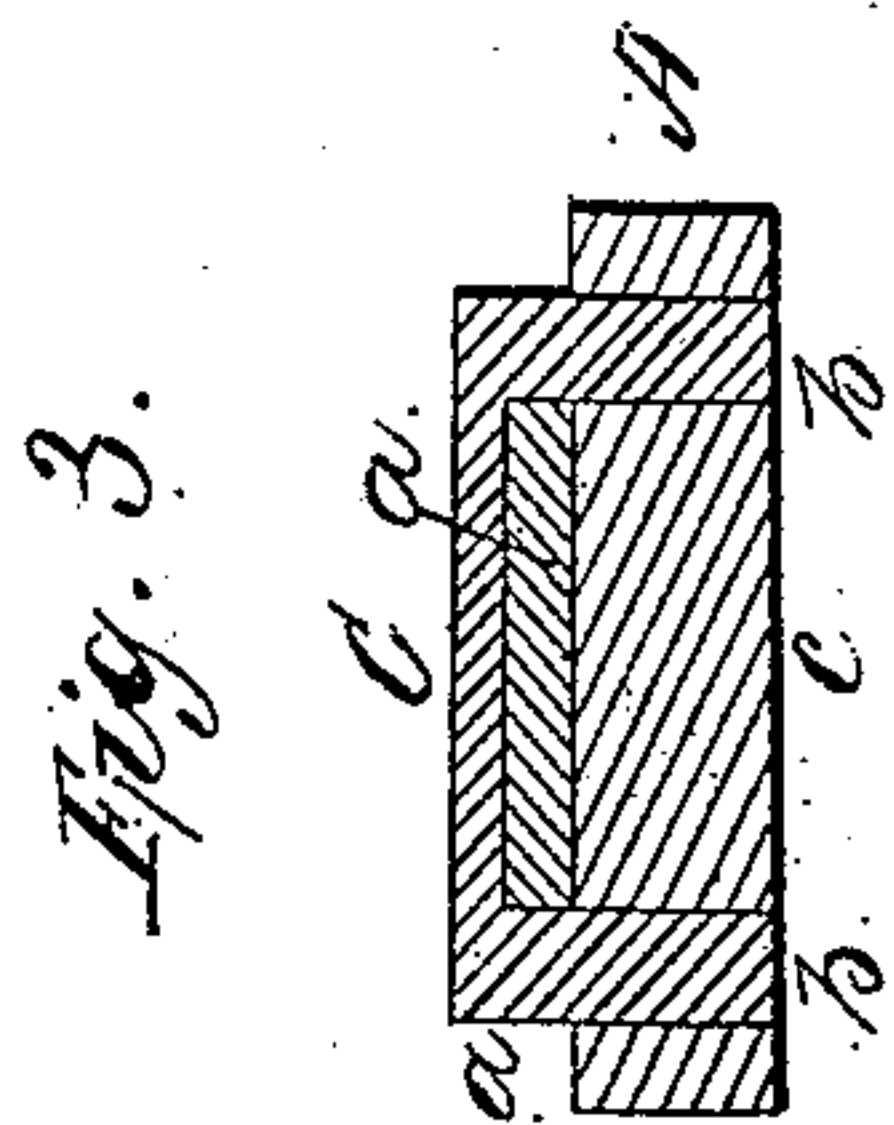
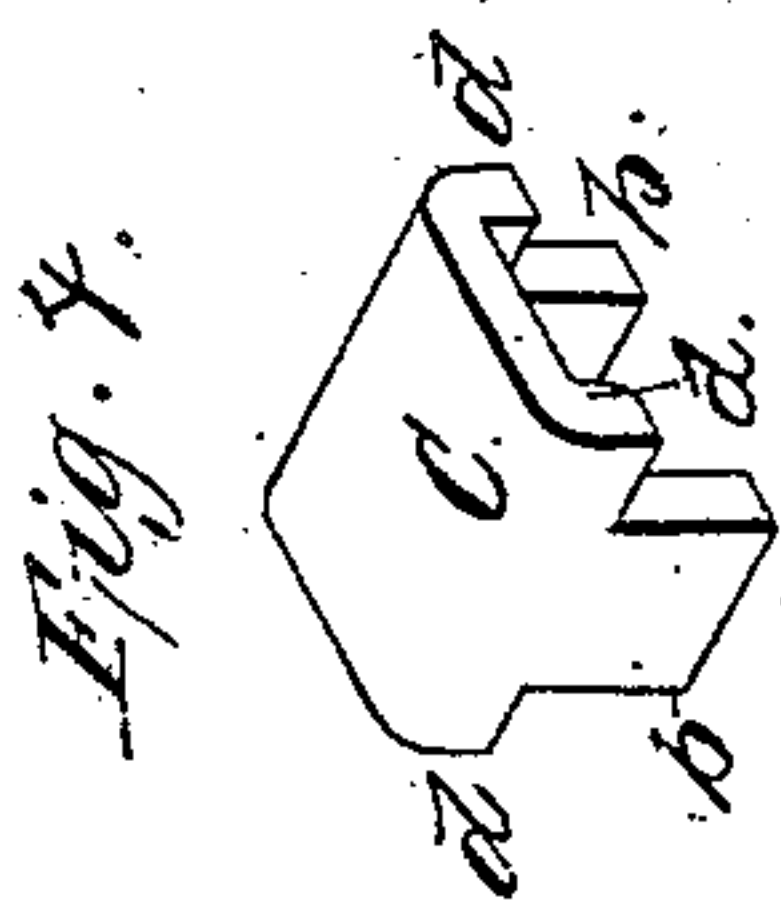
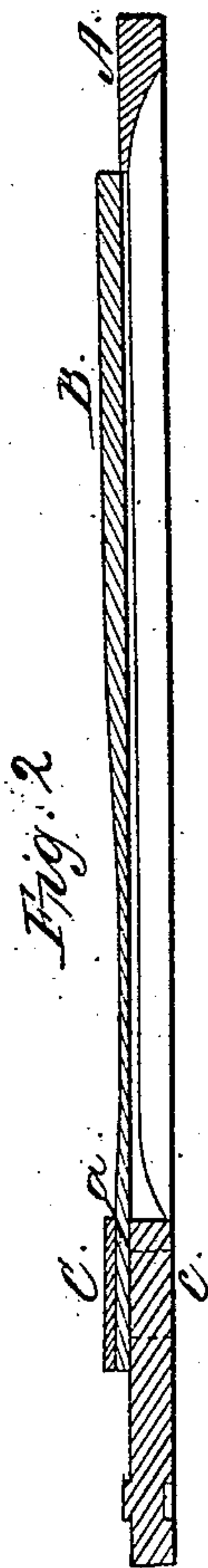
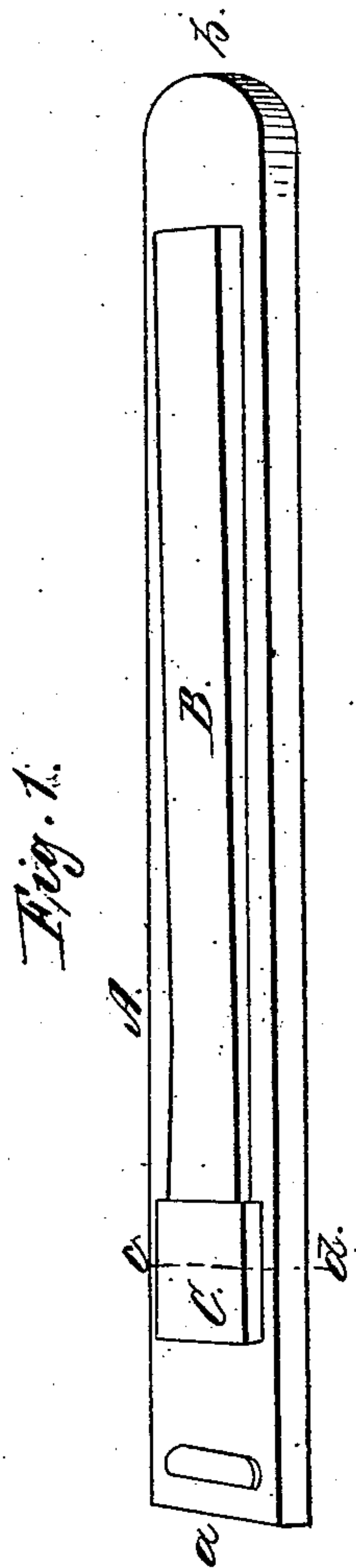


*C. N. Cutter,*  
*Reed for Musical Instruments,*  
*N<sup>o</sup> 79,322.      Patented June 30, 1868.*



*Witnesses:*  
*Thos H Dodge*  
*D L Miller.*

*Inventor:*  
*C. N. Cutter*

# United States Patent Office.

C. N. CUTTER, OF WORCESTER, MASSACHUSETTS, ASSIGNOR TO DAVIS, HILL,  
AND COMPANY, OF SAME PLACE.

*Letters Patent No. 79,322, dated June 30, 1868.*

## IMPROVEMENT IN METALLIC REEDS FOR MUSICAL INSTRUMENTS.

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

### KNOW ALL MEN BY THESE PRESENTS:

That I, C. N. CUTTER, of the city and county of Worcester, and Commonwealth of Massachusetts, have invented certain new and useful Improvements in Metallic Reeds for Musical Instruments; 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 a part of this specification, in which—

Figure 1 represents, upon an enlarged scale, a metallic reed made according to my present invention.

Figure 2 represents a longitudinal central section on line *a b*, fig. 1.

Figure 3 represents, upon a still larger scale, a cross-section on line *c d*, fig. 1; and

Figure 4 represents, upon an enlarged scale, a perspective view of the holding-staple or clasp by which the base of the tongue is retained in place.

To enable those skilled in the art to which my invention belongs to make and use the same, I will proceed to describe it more in detail.

In the drawings, A is the frame or main part of the reed, and B the tongue. The base, *a*, of the latter is fastened to the part A by means of the peculiarly-constructed or formed staple or clasp, C, shown detached in fig. 4. Holes are punched or formed in the part A to receive the projections *b b* of the clasp C, a space being left between said holes sufficient for the base, *a*, of the tongue.

The mode of fastening the tongue is as follows:

The base, *a*, of the tongue is placed upon the bridge *c* of the part A, the ends *b b* of the clasp C being passed through the holes in the part A, one end, *b*, on each side of the base of the tongue. The ends *b b* are then forced or driven through, and headed down upon the opposite or lower side of the part A, thereby drawing the top of loop, staple, or clasp C down firmly upon the base, *a*, of tongue B, whereby, when the parts are finished up, the fastening of the tongue is very secure, and at the same time not liable to even spring or open so as to permit the passage of air between the base, *a*, of the tongue and bridge *c*—a defect in many of the tongue-connections or fastenings heretofore in use, and which my present improvements are designed to obviate. As the shoulders *d d* of the part C rest upon the top of the part A, there is no danger of the clasp C getting displaced or twisted out of line. It will be observed that the top part of clasp C is so made that when driven down into place, it forms a box or cover to the end of the tongue, as indicated in the drawings, preventing all dust from working in under the edges of base, *a*, as well as the passage of air under the same.

Otherwise than above described, the reed may be made in any of the common modes in general use.

Having described my improved metallic reed, what I claim therein as new and of my invention, and desire to secure by Letters Patent, is—

1. The combination, with the base *a*, of the tongue B and the main or frame part A, of a holding-staple, clasp, or loop, substantially as and for the purposes set forth.
2. The combination, with the tongue B and frame or base A, of the clasp C, having projections *b b* and shoulders *d d*, substantially as and for the purposes set forth.

C. N. CUTTER.

Witnesses:

THOS. H. DODGE,  
D. L. MILLER.