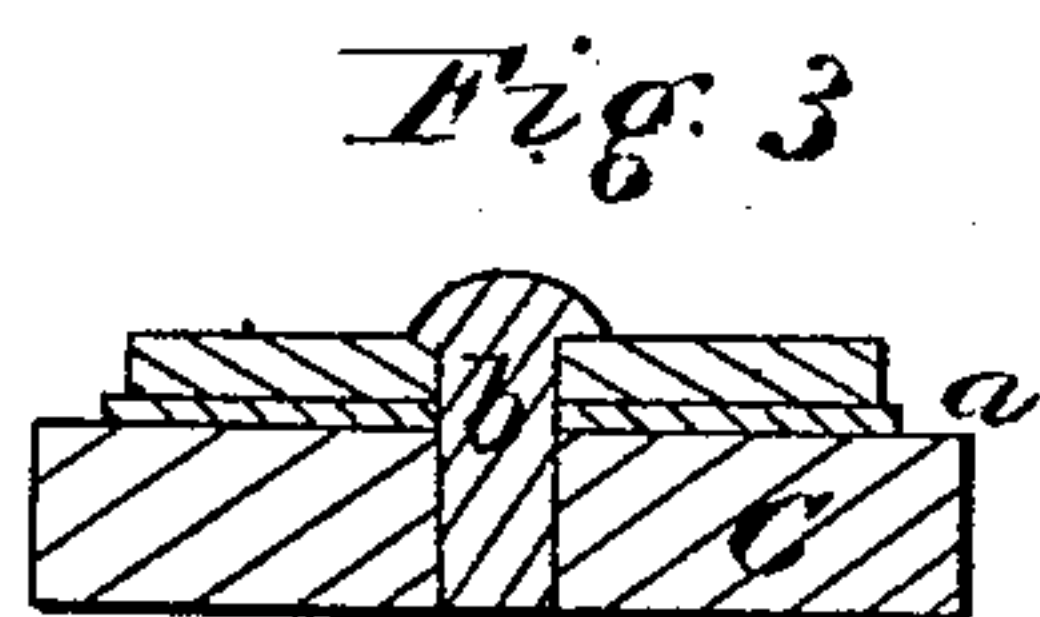
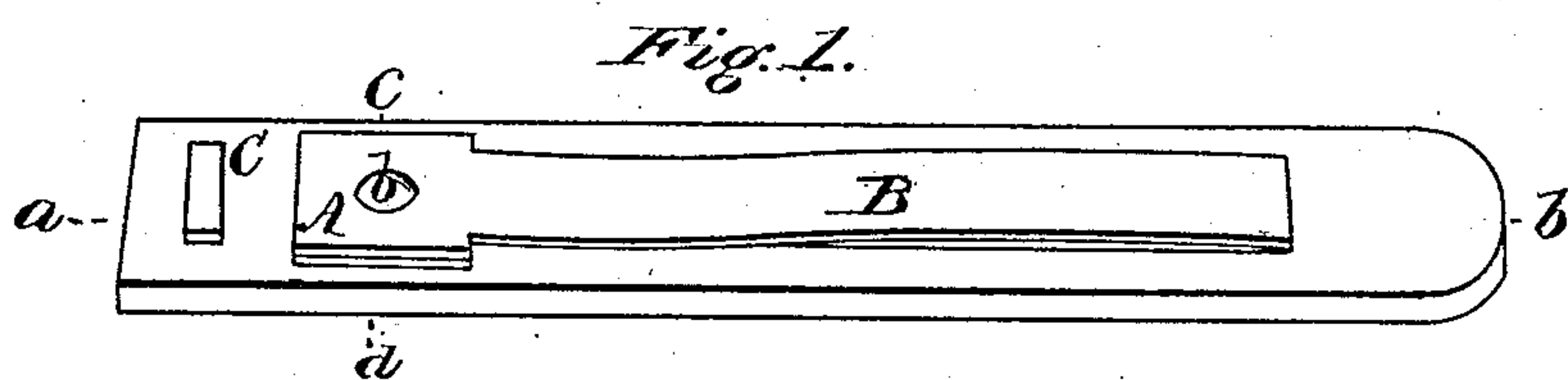


C. N. Cutter,
Metallic Reed for Musical Instruments,
Nº 79,321. Patented June 30, 1868.



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. 79,321, 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 reed made according to my invention.

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

Figure 3 represents a cross-section on line *c d*, fig. 1, upon a more enlarged scale.

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, the base, A, of the tongue, B, of the reed has heretofore been fastened directly to the part C or frame of the reed, without the interposition of any packing-material between the parts thus fastened together.

The reed, when thus made, is apt to give an imperfect sound, owing to the escape or passage of air between the base, A, of the tongue and the part C to which it is riveted.

To obviate this objection, I interpose a rubber or other elastic packing, *a*, between the base, A, of the tongue and the part C, the rivet *b* being passed down through the parts, as fully indicated in the drawings.

Owing to the elasticity of the packing *a*, the joint will remain tight for a long time, thus rendering the reed very desirable for use in all first-class instruments, where perfect, full, and clear sounds are required.

I have found that paper makes a good packing, as a substitute for rubber.

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

A metallic reed for musical instruments, in which the tongue of the reed and frame, or part to which the same is attached, are combined with an interposed rubber or other elastic packing, substantially as and for the purposes shown and set forth.

C. N. CUTTER.

Witnesses:

THOS. H. DODGE,

D. L. MILLER.