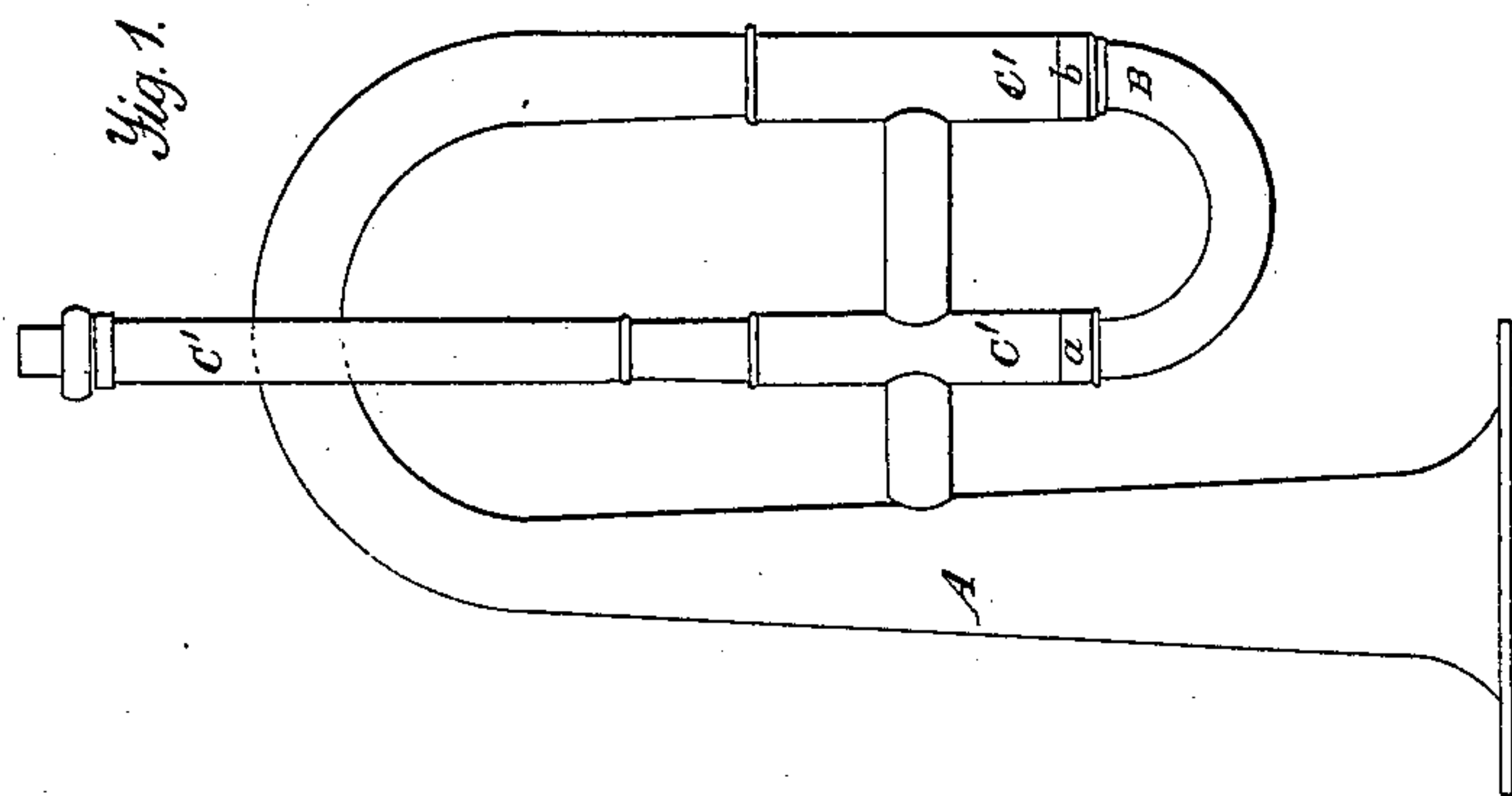
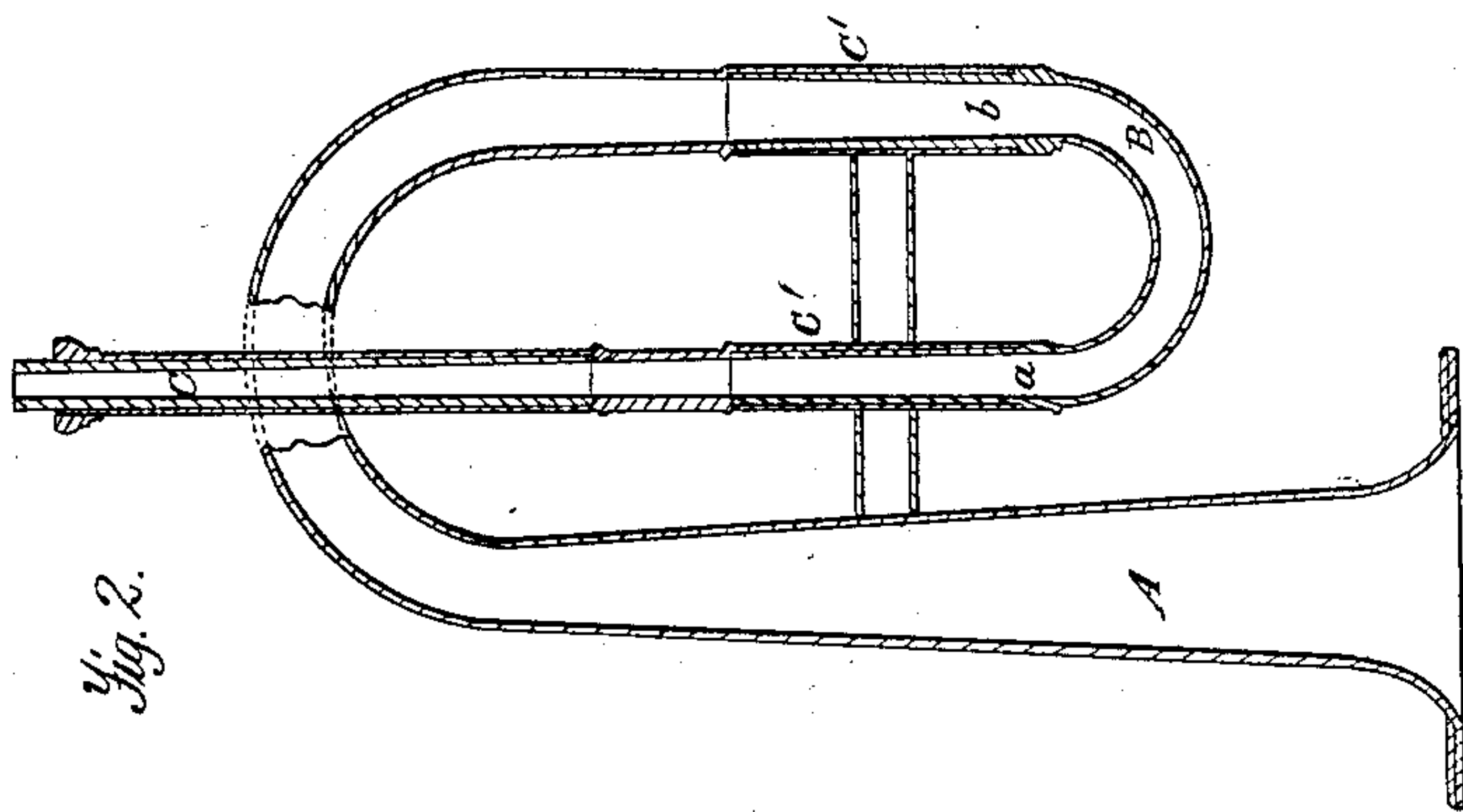


H. G. Lehnert,

Cornet &c,

N^o 52,580.

Patented Feb. 13, 1866.



Witnesses.

H. P. Hale Jr
G. H. Washburn

Inventor.
Henry Lehnert.

by his attorney
R. M. Day.

UNITED STATES PATENT OFFICE.

HENRY G. LEHNERT, OF BOSTON, MASSACHUSETTS.

IMPROVEMENT IN BUGLES, HORNS, CORNETS, &c.

Specification forming part of Letters Patent No. 52,586, dated February 13, 1866.

To all whom it may concern:

Be it known that I, HENRY G. LEHNERT, of Boston, in the county of Suffolk and State of Massachusetts, have invented a new and useful Improvement in Bugles, Cornets, or other Musical Instruments of like character; and I do hereby declare the same to be fully described in the following specification and represented in the accompanying drawings, of which—

Figure 1 denotes an elevation, and Fig. 2 a section, of a bugle as provided with my invention.

In the construction of bugles and cornets provided with sliding tuning-pipes it has heretofore been the custom to make the slide or slides of such a pipe cylindrical both externally and internally. In other words, the bore of the pipe has been formed cylindrical, thus interrupting by a cylinder the proper taper of the said passage of the instrument, and thereby more or less injuring its tone.

My improvement consists in making the tuning-pipe with a tapering bore, which shall be a prolongation of the taper of the said passage adjacent to either of its extremities. In this way I maintain the true taper of the said passage from end to end of it when the tun-

ing-pipe is closed, the variation being of little or no account when the tuning-pipe is drawn out sufficiently for tuning the instrument.

In the drawings, A denotes the bugle, provided with two tuning-pipes, B C, the first of which has two slides, *a b*, while the other has but one, and is to hold the mouth-piece. The socket tube or tubes *c'*, for reception of the slide or slides of the tuning pipe or pipes, I make with a cylindrical bore to fit to the external surface of the slide, which is cylindrical; but the bore of the slide I make tapering in prolongation of the true regular taper of the instrument from end to end.

What I claim as my invention or improvement in bugles, cornets, or such like instruments is—

The construction of any slide of their tuning-pipes with a tapering bore, which, when in place in the instrument, becomes a prolongation of the taper of the said passage, as described.

HENRY G. LEHNERT.

Witnesses:

R. H. EDDY,
F. P. HALE, Jr.