

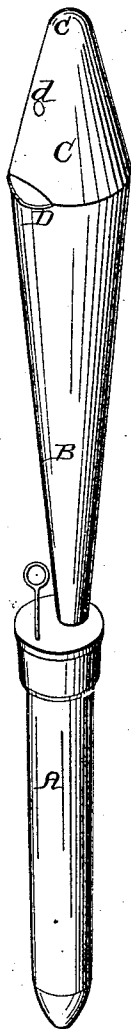
J. Lorenz,

Organ Pipe,

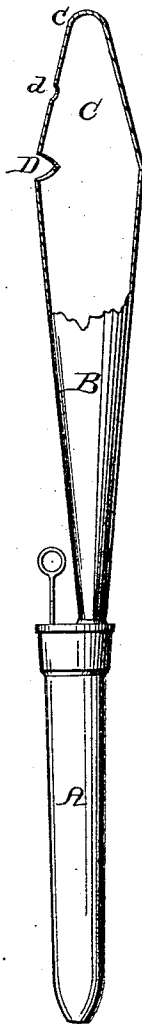
N^o 78, 107,

Patented May 19, 1868.

Fig; 1.



Fig; 2.



Witnesses;
Jas. H. Layman.
Henry C. Weber

Inventor;
J. Lorenz
By Knight Bros
Atty.

United States Patent Office.

JOSEPH LORENZ, OF CINCINNATI, OHIO.

Letters Patent No: 78,107, dated May 19, 1868.

IMPROVEMENT IN ORGAN-PIPES.

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

TO WHOM IT MAY CONCERN:

Be it known that I, JOSEPH LORENZ, of Cincinnati, Hamilton county, Ohio, have invented a new and useful Improvement in Organ-Pipes; and I hereby declare the following to be a full, clear, and exact description thereof, reference being had to the accompanying drawings, making part of this specification.

My invention relates to a form of pipe for church-organs, which combines the advantages of economy of space and material with a fuller and more resounding note than the customary pipe.

Figure 1 is a perspective view of a *vox-humana* pipe embodying my improvement.

Figure 2 is a side elevation, cut at its upper portion by an axial section.

A is the wind-tube, enclosing the customary reed, (not seen in drawing,) and surmounted by the pipe B, composed of two conic frusta, joined base to base, and being open at its lower end to afford the usual communication with the reed, and closed at top by a dome-like apex, *c*, to the upper frustum C, instead of the usual open summit.

At the common base of the two frusta, where the pipe is widest, is an elliptical ventage, D, for the sound, and where a symphonic note is desired, an additional and much smaller orifice, *d*, may be provided, half way between the ventage D and the summit of the dome *c*.

A *vox-humana* pipe thus formed, while occupying but half the height of an ordinary open-topped pipe of the same tone and volume of sound, is also found to possess a more sonorous and resonant note.

I claim herein as new, and of my invention—

The *vox-humana* organ-pipe A B C & D, formed as and for the purpose set forth.

In testimony of which invention, I hereunto set my hand.

JOSEPH LORENZ.

Witnesses:

GEO. H. KNIGHT,
JAMES H. LAYMAN.