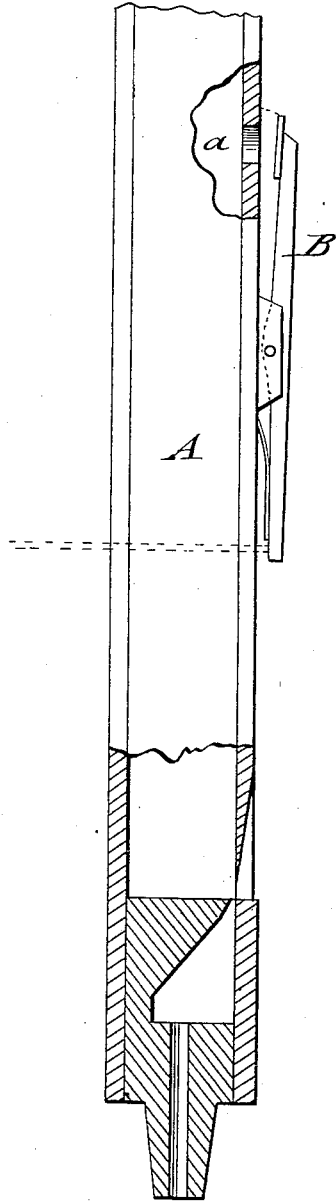


A. GEMÜNDER.
Organ-Pipe.

No. 200,449.

Patented Feb. 19, 1878.



WITNESSES:

Henry N. Miller
J. N. Scarborough.

INVENTOR:

A. Gemünder.
BY *Muntz*

ATTORNEYS.

UNITED STATES PATENT OFFICE.

ALBERT GEMÜNDER, OF COLUMBUS, OHIO.

IMPROVEMENT IN ORGAN-PIPES.

Specification forming part of Letters Patent No. **200,449**, dated February 19, 1878; application filed October 30, 1877.

To all whom it may concern:

Be it known that I, ALBERT GEMÜNDER, of Columbus, in the county of Franklin and State of Ohio, have invented a new and Improved Organ-Pipe, of which the following is a specification:

The accompanying drawing represents a side elevation of my improved organ-pipe, partly in section.

The object of my invention is to furnish for organs an improved pipe, by which one or a series of sounds may be produced, and thereby the construction of organs simplified, as a less number of pipes is required; and the invention consists of an organ-pipe having one or more openings above the mouth and at the side adapted to be closed by a valve or by valves, keys, or slides, as will be hereinafter more particularly described.

In the drawing, A represents an organ-pipe of the usual flute kind, made either round or square, or of wood or metal, as desired. The upper part of the pipe is provided at the side and between the top and mouth of the pipe with one or more openings, *a*, that are closed by a corresponding number of keys, valves,

or movable slides, B, which are operated by suitable mechanism.

By opening one of the keys, the pipe will sound another tone, and produce thereby as many different sounds in succession as there are openings and keys provided.

By the use of such keyed pipes the number of pipes in organs may be reduced, while the same number of tones may be obtained.

I am aware that a valve has been used in connection with an opening in a pyrophone-tube; but

What I claim is—

An organ-pipe provided at the side and above its mouth with one or more openings, and having a corresponding valve or valves adapted to close the same, and arranged to be operated by suitable mechanism, whereby one or a series of tones differing from the natural tone or pitch of the pipe may be produced, at the option of the performer, substantially as and for the purpose described.

ALBERT GEMÜNDER.

Witnesses:

JOHN H. HEITMANN,
E. P. SHARP.