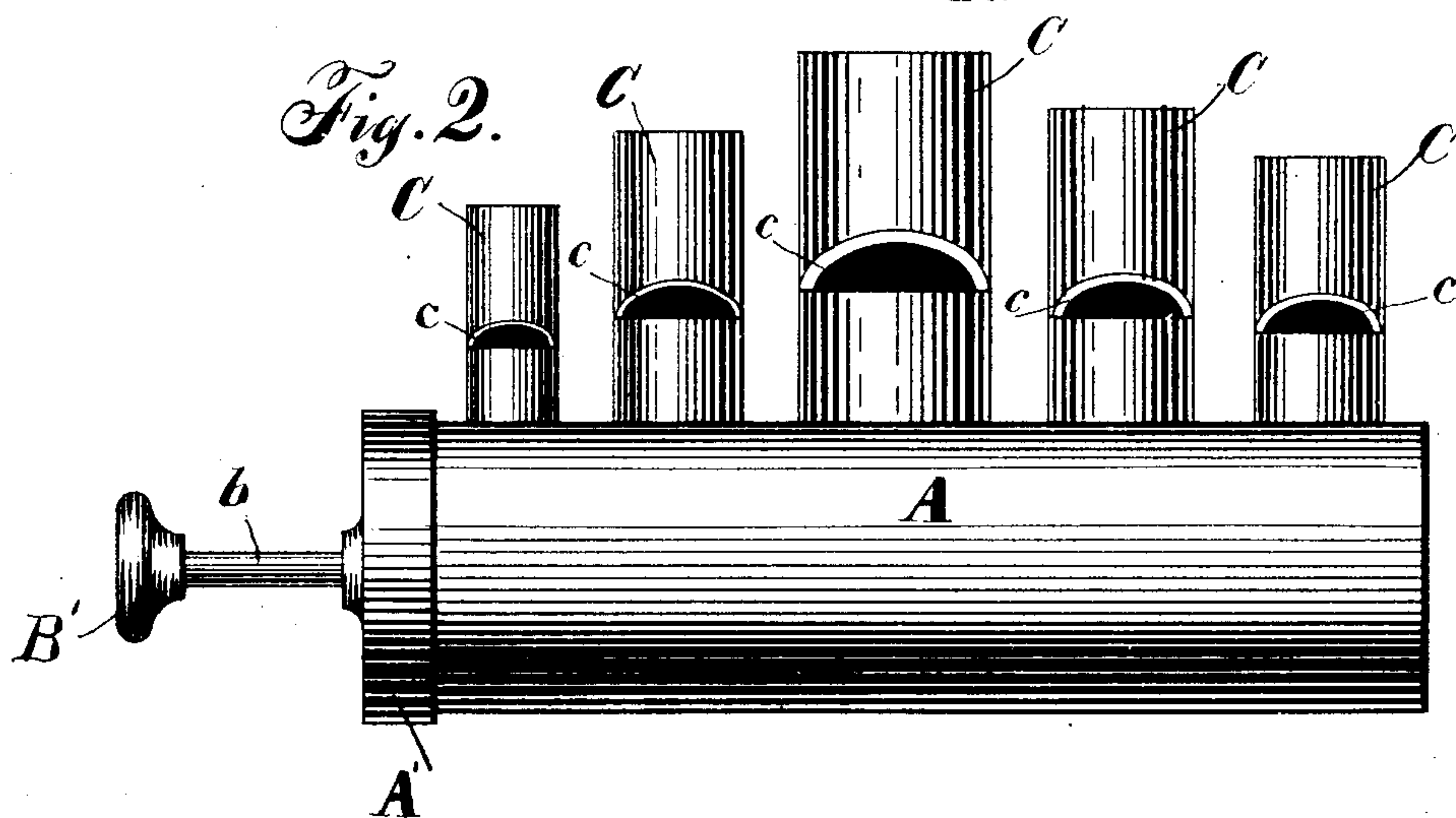
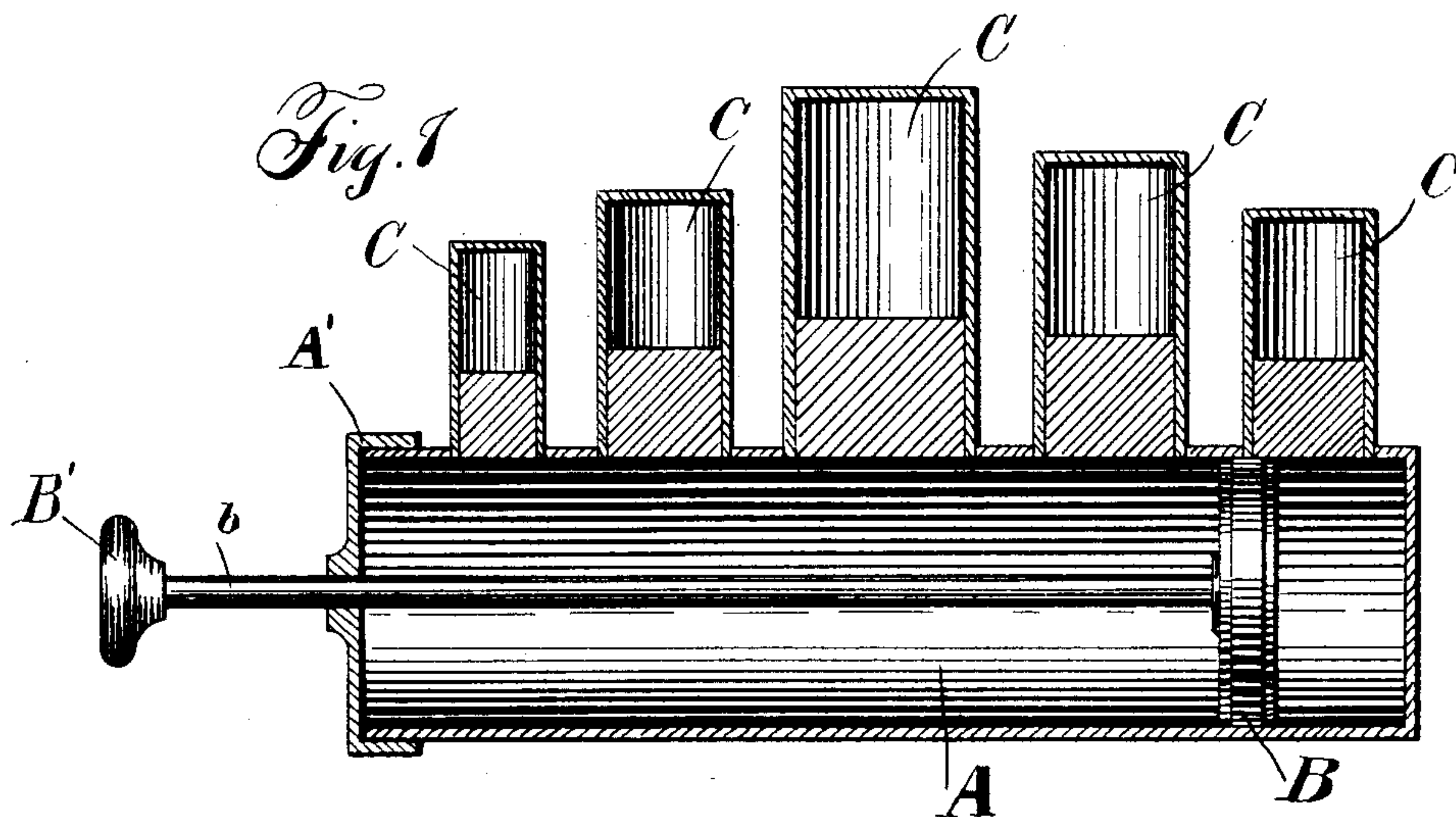


(No Model.)

J. B. GALLOWAY.  
MUSICAL INSTRUMENT.

No. 481,694.

Patented Aug. 30, 1892.



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# UNITED STATES PATENT OFFICE.

JAMES B. GALLOWAY, OF CHICAGO, ILLINOIS.

## MUSICAL INSTRUMENT.

**SPECIFICATION** forming part of Letters Patent No. 481,694, dated August 30, 1892.

Application filed June 28, 1892. Serial No. 438,292. (No model.)

*To all whom it may concern:*

Be it known that I, JAMES B. GALLOWAY, residing at Chicago, Cook county, Illinois, have invented a certain new and useful Improvement in Musical Instruments, of which the following is a specification.

The object of my invention is to construct a simple and easily-operated musical instrument adapted for the use of marching or campaign clubs, as a toy, or for any other purposes to which it is suited; and speaking generally my invention consists in providing a series of whistles or organ-pipes, which may be of various sizes and pitched at different tones, and which are adapted to be blown or played upon by means of a suitably-operated piston; and my invention consists, further, in the features, details of construction, and combinations of parts hereinafter described and claimed.

In the drawings, Figure 1 is a vertical longitudinal section of my improved musical instrument constructed in accordance with my invention, and Fig. 2 a side elevation thereof.

In constructing my improved instrument I first make a tube or pipe A of any suitable dimensions, and preferably of wood, for the sake of cheapness, though any other suitable material can be used. This cylinder is closed by a cover A'.

Within the cylinder is placed a piston B of suitable size to closely fit the cylinder and to be adapted to move easily back and forth therein. This piston is provided with a rod b, which extends out through the cover A', and is provided at its end with a knob or handle B', by means whereof motion is imparted to the piston.

Upon one side of the cylinder I place a series of whistles or organ-pipes C. These pipes are inserted into suitable orifices or openings in the side of the cylinder and held in place by means of glue, solder, or any other suitable and economical means. There may be any number of these pipes desired. In the drawings I have shown five of various sizes and adapted to sound various notes. If desired, however, the pipes may all be of the same size and all give the same note; nor is it essential that these pipes should be placed in line on one side, as they may be placed on opposite sides of the cylinder or arranged spirally around the same, as may be desired, without departing from my invention.

My device having been constructed and

put together as above described is operated or played upon by moving the piston back and forth within the cylinder by means of the rod and operating-handle. As the piston moves past the openings at the inner ends of the organ-pipes, air will be forced through the openings c in the pipes, thereby playing upon them or sounding them. With the parts in the position shown in Fig. 1, upon the piston being moved toward the left air will be drawn in through the opening in the right-hand pipe and forced or expelled through the openings in the four pipes to the left of the piston, and after the piston passes each pipe air will enter therethrough, the pipes in advance being blown upon by expulsion of the air. The same is true of the stroke in the reverse direction, so that all the pipes are played upon with each stroke of the piston. By this means I provide a musical instrument which is capable of being easily operated, and if the pipes are formed in the proper manner the notes emitted thereby will produce a very pleasing effect, and of course, if desired, the pipes can be so proportioned as to emit a very loud, a very shrill, or a very soft sound. By "organ-pipes" in the claims I mean equally to include whistles, &c.

I claim—

1. In a musical instrument, the combination of a main cylinder, a piston therein, means for operating the piston, and a series of organ-pipes connected with the interior of the cylinder, whereby as the piston is moved back and forth the pipes will be played upon, substantially as described.

2. In a musical instrument, the combination of a cylinder, a piston therein, means for operating such piston, and a series of organ-pipes of various sizes connecting with the interior of such cylinder, whereby as the piston is moved back and forth the pipes will be played upon, substantially as described.

3. In a musical instrument, the combination of a cylinder, a piston therein, means for operating such piston, and a series of pipes arranged in a row along the outside of the cylinder and communicating with the interior thereof, whereby as the piston is moved back and forth the pipes will be played upon, substantially as described.

JAMES B. GALLOWAY.

Witnesses:

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