

C. W. SMITH.
REED ORGAN PIPE.

No. 106,628.

Patented Aug. 23, 1870.

Fig. 1.

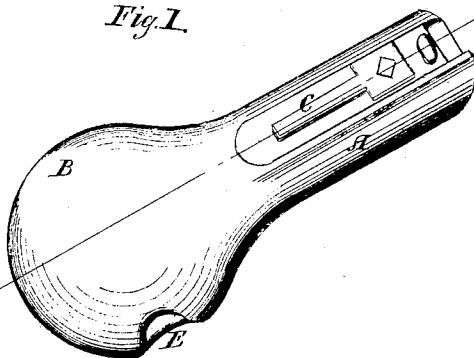
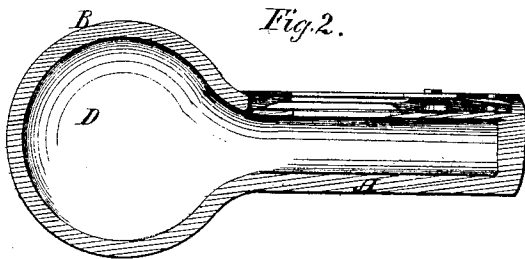


Fig. 2.



Witnesses:

Wm. Vorland
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United States Patent Office.

CHARLES W. SMALL, OF WORCESTER, MASSACHUSETTS.

Letters Patent No. 106,628, dated August 23, 1870.

IMPROVEMENT IN REED ORGAN-PIPES.

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

To all whom it may concern:

Be it known that I, CHARLES W. SMALL, of Worcester, in the county of Worcester and State of Massachusetts, have invented a new and useful Improvement in Reed Organ-Pipes; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawing forming part of this specification.

My invention relates to organ-pipes, and consists in certain improvements on their ordinary construction, whereby I soften the tone and adapt them to use in parlor organs, melodeons, &c.

- A is the pipe;
- B, its enlargement;
- E, the mouth; and
- C, the reed.

The stem I use as a receptacle for the reed, and as a means of securing it to the organ.

The reed end of the pipe is inclosed in the wind-chest, and placed as deeply and near to the mouth or orifice E of the pipe as possible.

By this means I obtain two important advantages:

First, I get the full force of the reed, with its fixed pitch of tone softened and increased in volume, and

also a peculiar quality of tone, which cannot be produced as well by any other form of pipe.

Second, by using so short a pipe I am enabled to apply it to reed (or parlor) organs and melodeons, &c., whereas the pipes in use cannot be employed to advantage on account of the room they occupy.

For this reason, doubtless, pipes have not been generally used hitherto in such instruments.

I use the open or free reed of parlor-organs, where the wind, in passing through the reeds, vibrates through the slot of the reed-frame, producing the tone.

My invention has the advantages indicated, and the pipe is peculiarly adapted to portable instruments, such as parlor-organs, melodeons, &c.

Having thus described all that is necessary to a clear understanding of my invention,

What I claim as new, and desire to protect by Letters Patent, is—

The improved organ-pipe A, constructed of wood or metal, having the spherical chamber B at one end, with a mouth, E, at the side, and having the reed attached to one side of A, all substantially as specified.

Witnesses:

CHARLES W. SMALL.

GEO. M. TAYLOR,
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