

D. Boardman,
Organ Pipe,
No. 5,520, *Patented Apr. 18, 1848.*

Fig. 3.

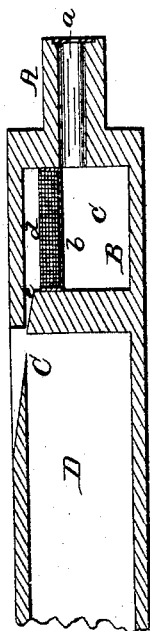


Fig. 2.

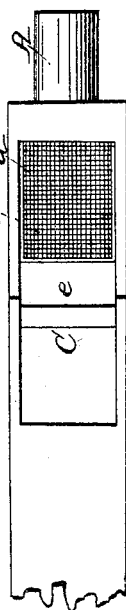
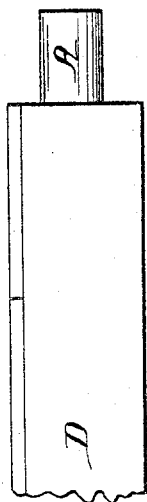


Fig. 1.



UNITED STATES PATENT OFFICE.

DAVID BOARDMAN, OF MOUNT VERNON, NEW HAMPSHIRE.

ORGAN-PIPE.

Specification of Letters Patent No. 5,520, dated April 18, 1848.

To all whom it may concern:

Be it known that I, DAVID BOARDMAN, of Mount Vernon, in the county of Hillsborough and State of New Hampshire, have invented a new and useful Improvement in Organ-Pipes; and I do hereby declare that the same is fully described and represented in the following specification and accompanying drawings, letters, figures, and references thereof.

Of said drawings Figure 1 represents a side view of a common organ pipe made of wood, and having my improvement applied within it. Fig. 2 is a top view of it, in which the cover of the wind chamber is supposed to be removed. Fig. 3 is a central longitudinal and vertical section of the said pipe.

In the said drawings, A represents the neck of the pipe or that part of it at which the air is made to pass into it.

B is the chamber which receives it, and from which it escapes out, and is directed against the knife edge C.

D is the main chamber of the pipe.

My improvement consists in placing a partition of coarse cotton cloth, or other proper substance punctured with holes, across the chamber B and just above the air induction entrance *a*. The said partition is shown at *b*. It is made to divide the cham-

ber B into two parts C and *d*. When air is blown through the passage *a*, and into the pipe it will first pass into the space *c*, below the cloth partition. From thence it will rush through the meshes of cloth or between the threads of which it is composed, and find its way into the space *d*, from which it will pass out of the opening *e*. By means of the partition of cloth the air is divided into a great number of small streams before it rushes out of the eduction passage *e*. By such division or by some other cause not known the tone of the pipe is very highly improved.

I do not confine my invention to the use of cotton cloth alone for a partition, as there are other materials which may be substituted, and be made to produce a like effect.

That which I claim is—

The employment and use of a partition of cotton cloth (or other proper equivalent) within an organ pipe in the manner and for the purpose of improving the tone as specified.

In testimony whereof I have hereto set my signature this eighth day of April, A. D. 1847.

DAVID BOARDMAN.

Witnesses:

NATHANIEL BRUCE,
LUCY B. BRUCE.