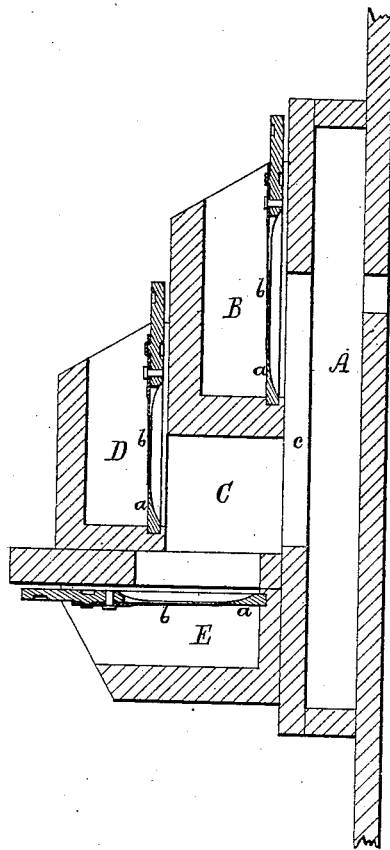


H. W. SMITH.
Reed-Organ.

No. 207,906.

Patented Sept. 10, 1878.



Witnesses.

S. N. Piper
John Redner

Inventor.

Henry W. Smith.
by his attorney
R. H. Eddy

UNITED STATES PATENT OFFICE.

HENRY W. SMITH, OF WEST NEWTON, MASSACHUSETTS.

IMPROVEMENT IN REED-ORGANS.

Specification forming part of Letters Patent No. 207,906, dated September 10, 1878; application filed July 8, 1878.

To all whom it may concern:

Be it known that I, HENRY W. SMITH, of West Newton, of the county of Middlesex and State of Massachusetts, have invented a new and useful Improvement in Reed-Organs; and do hereby declare the same to be described in the following specification and represented in the accompanying drawing, which is a vertical section of an organ wind-chest and three reeds, and their ducts arranged therewith, and with a chamber to open into such chest, all being in accordance with my improvement, and as hereinafter described.

My invention is productive of important advantages in the construction of a reed-organ of the kind known to the trade by the term "upright." In carrying it out, I have, in connection with the wind-chest A and a reed-duct, B, at the back of such, and to open into the said wind-chest, a chamber, C, arranged below and independent of the aforesaid reed-duct, and having other reed-ducts, D E, arranged and opening into it at its bottom and back, as represented, each reed-duct being furnished with a slotted reed-plate, *a*, and a reed, *b*, thereto.

The drawing shows the reed-duct D as parallel to the reed-duct B, and as opening into the chamber C. It also shows the reed-duct E as arranged at a right angle to the wind-chest and to the two ducts, D B. I do not, however, confine my invention to such a dis-

position of the ducts, as the angle of the duct E relatively to either of the other ducts or the wind-chest may be somewhat acute.

From the above it will be seen that all the ducts are made to so communicate with the wind-chamber that one valve applied to the opening *c* answers for all of them. Each duct is to have a stop-valve at its outer end.

My invention, though analogous to that shown in the United States Patent No. 13,704, has one of the reed-ducts of the chamber C arranged horizontally beneath the bottom of such chamber, also under one of the others arranged vertically at the back of the chamber, in consequence of which the valve-opening *c* is not required to be extended below the bottom of the chamber, and the valve for such opening *c* becomes correspondingly shorter than would be the case were the lower valve-duct, E, arranged vertically. Therefore,

I claim—

In combination with the wind-chest A and the chamber C, and the reed-ducts B and D, arranged therewith as shown, the reed-duct E, arranged horizontally below the said chamber C and the duct D, and to open upward into the former, all being substantially as represented.

HENRY W. SMITH.

Witnesses:

R. H. EDDY,
JOHN R. SNOW.