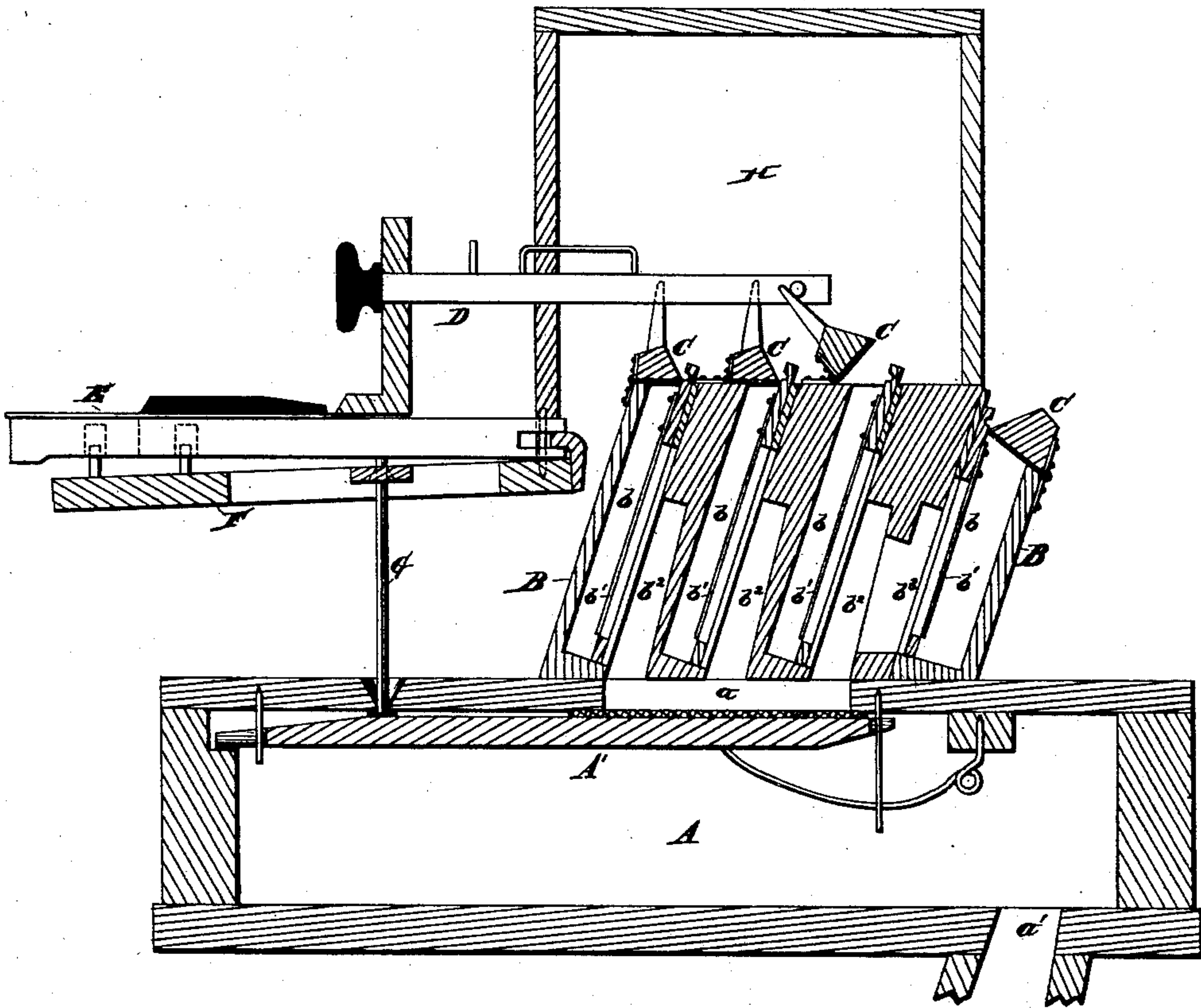


(No Model.)

J. COURVILLE.
REED BOARD FOR ORGANS.

No. 366,997.

Patented July 19, 1887.



WITNESSES
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UNITED STATES PATENT OFFICE.

JOSEPH COURVILLE, OF DETROIT, MICHIGAN.

REED-BOARD FOR ORGANS.

SPECIFICATION forming part of Letters Patent No. 366,997, dated July 19, 1887.

Application filed April 25, 1885. Serial No. 163,441. (No model.)

To all whom it may concern:

Be it known that I, JOSEPH COURVILLE, of Detroit, county of Wayne, State of Michigan, have invented a new and useful Improvement in Organs; and I declare the following to be a full, clear, and exact description of the same, such as will enable others skilled in the art to which it pertains to make and use it, reference being had to the accompanying drawing, which forms a part of this specification.

My invention relates to a novel construction of reed-organs, and has for its object, more especially, an improved construction of the reed-boards, so as to produce a vibrating-chamber upon both sides of the reeds.

My invention consists in the general construction and arrangement of the devices shown in the drawing, hereinafter described, and more particularly pointed out in the claim.

The drawing illustrates a vertical cross-section of an organ-action embodying my invention, in which A represents an air-chamber provided with valve-openings *a* and valves A' for opening and closing the same, arranged in any suitable manner.

a' is the bellows-opening.

B represents any desired number of reed-boards, constructed with reed-cells *b* and provided with reeds *b'*.

It is my purpose to cut away the reed-board adjacent to both the sides of the reed along a suitable portion of its length, as shown at *b* and *b'*, to leave vibrating-chambers upon both sides of the reeds. This construction permits a better vibration of the reeds and a superior quality of tone by means of the wooden chambers upon both sides the vibratory end of the reeds. By constructing the reed-boards so that the air will be fed through the reed-cells from the outer cells toward the interior, as shown in the drawing, the valve-orifices may be more contracted or shortened than has hitherto been common. Thus by cutting away the adjacent parts of the two outer reed-boards the adjacent chambers *b'* may be thrown together, as shown at *b'*, and thus the air be fed

in through the outer reed-cells toward the center and the valve-openings correspondingly shortened. The consequence is that the valves are much less liable to leak by suction thereon, as there is materially less surface to receive the pressure of the air.

C represents the mutes, operated in any suitable manner.

D represents the stops; E, the keys; F, the key-frame; G, the pitman-rods.

I prefer to locate the reed-boards in the rear of the key-frame and upon an incline with the mutes at the top. This construction permits the ready tuning and repairing of the reeds.

H represents any suitable sounding-chamber.

By locating the reed-boards in an upright position the vibrating-chambers may all communicate directly with the air-chamber through the valve-orifices when the valves are operated, as illustrated in the drawing.

Heretofore reed-boards have been made which were cut away upon one side only, the chambered faces of the boards in one series being turned to face the corresponding faces of those in the adjacent series. The boards in the two series adjacent to these must, of course, be placed back to back, and this requires a considerable space, and, moreover, does not accomplish the same results proposed by my invention.

What I claim is—

The combination, with an air-chamber constructed with valve-orifices and valves controlling said orifices, of reed-boards cut away on opposite sides to form vibrating-chambers on both sides of the reeds and also having the adjacent parts of the two outer reed-boards at each extremity of the series of reed-boards cut away to throw the two vibrating-chambers together, substantially as described.

In testimony whereof I sign this specification in the presence of two witnesses.

JOSEPH COURVILLE.

Witnesses:

N. S. WRIGHT,

M. B. O'DOHERTY.