

(No Model.)

H. JANES.

REED TUBE FOR MUSICAL INSTRUMENTS.

No. 490,115.

Patented Jan. 17, 1893.



Fig. 1.



Fig. 2.

Witnesses.

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UNITED STATES PATENT OFFICE.

HENRY JANES, OF WATERBURY, VERMONT.

REED TUBE FOR MUSICAL INSTRUMENTS.

SPECIFICATION forming part of Letters Patent No. 490,115, dated January 17, 1893.

Application filed April 19, 1892. Serial No 429,816. (No model.)

To all whom it may concern:

Be it known that I, HENRY JANES, of Waterbury, in the county of Washington and State of Vermont, have invented a new and Improved Reed Tube or Pipe and Vibrator for Musical Instruments, of which the following is a specification.

The object of the invention is to produce tones of a better quality, especially in the higher octaves, than are afforded by the ordinary forms of reeds used in cabinet organs, and by apparatus more cheaply constructed, and less liable to get out of order, than the reed pipes ordinarily used in large church organs.

Reference is made to the accompanying drawings, which form a part of this specification.

A, Figures 1 and 2 is the vibrator, B, is the reed tube, pipe or plate, and F, Fig. 1 is the lug by which the reed tube is held to the sound board when used in the small cabinet organ.

The invention consists of a tube or pipe of triangular cross-section, truncated obliquely at one end so as to make a somewhat triangular eschalot over which is attached a similarly shaped vibrator, which may be actuated either by pressure or suction as preferred. If desired, the back side of the metal tube may be left off, its place being supplied by the sound board to which the two front sides of the tube are fastened, or if the vibrator is to be actuated by suction, the back side only of the tube need be of metal which should then be a flat plate (Fig. 2) in which the eschalot is cut, the other sides of the tube being formed

by the channel through which the wind passes to the vibrators, which channel may be of any convenient form.

The triangular tubes or pipes are cheaply made from sheet metal, all sizes being formed in the same swage and dressed with the same milling tool. If truncated at the same angle, all the eschalots form similar triangles, and all the vibrators may be struck out by the same stamping tool, the scale being regulated by simply cutting from the wide end of the vibrator, less or more according to the rise in pitch.

The vibrators may be corrugated or slotted by my method if desired. They give free tones which are less metallic, and less marred by inharmonious overtones than those of ordinary reeds, and, as the free ends of the vibrators may be made very light, in the higher octaves of the four foot and two foot registers the tones are particularly good.

I claim as new, and wish to patent.

1. A reed tube or pipe with one end obliquely truncated, over the opening of which obliquely truncated end is placed a vibrator.

2. A vibrator approximately triangular in shape.

3. A reed tube or pipe of triangular cross-section, one end of which is cut obliquely so as to make a triangular eschalot, in combination with a vibrator similar in outline to the eschalot, as shown and described.

HENRY JANES.

Witnesses:

FRANCES B. JANES,
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