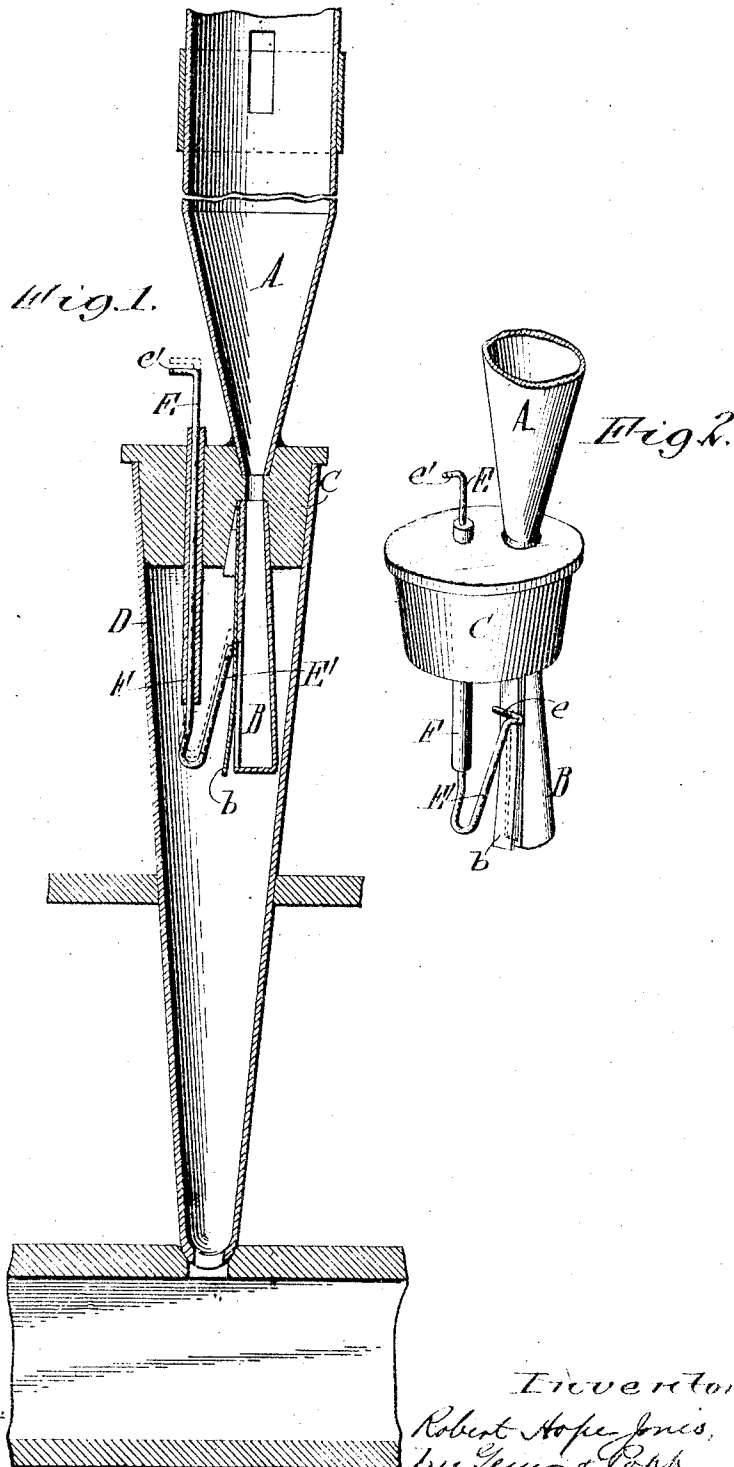


R. HOPE-JONES.
TUNING DEVICE FOR REED ORGAN PIPES.
APPLICATION FILED DEC. 5, 1910.

1,061,380.

Patented May 13, 1913



Witnesses:
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UNITED STATES PATENT OFFICE.

ROBERT HOPE-JONES, OF NORTH TONAWANDA, NEW YORK, ASSIGNOR TO THE RUDOLPH WURLITZER MANUFACTURING COMPANY, OF NORTH TONAWANDA, NEW YORK, A CORPORATION OF NEW YORK.

TUNING DEVICE FOR REED-ORGAN PIPES.

1,061,380.

Specification of Letters Patent.

Patented May 13, 1913.

Application filed December 5, 1910. Serial No. 595,551.

To all whom it may concern:

Be it known that I, ROBERT HOPE-JONES, a subject of the King of England, and residing at North Tonawanda, in the county of Niagara and State of New York, have invented new and useful Improvements in Tuning Devices for Reed-Organ Pipes, of which the following is a specification.

This invention relates to the devices employed for tuning the tongues of organ pipes. The device now generally used for this purpose consists of a so-called "tuning wire" passing through the block which carries the eschalot and having its lower portion doubled upon itself to form an arm or finger which bears against the face of the tongue and is raised or lowered for tuning the tongue by adjusting the tuning wire in the block. This wire extends some distance below the block, giving it considerable elasticity, and owing to the frictional resistance between its finger and the tongue, the body-portion of the wire below the block is sprung or deflected away from the eschalot more or less when adjusted upwardly and toward the eschalot when adjusted downwardly. In adjusting the wire, this deflection continues until the resulting tension overcomes the frictional resistance of the finger when the lower portion of the wire recoils and causes the free end of the finger to jump along the face of the tongue to a greater or less extent. Instead of promptly and positively following the vertical adjustments of the tuning wire, the finger is thus shifted to an excessive and uncertain extent, rendering it exceedingly difficult to tune the tongue accurately and requiring repeated tapping or adjustment of the wire for this purpose. But the most serious objection to said tuning device is that the finger does not reliably remain in adjusted position and often shifts out of place, because the body of the tuning wire is usually under greater or less tension after effecting the adjustment.

It is the object of my invention to overcome these objections by simple and inexpensive means.

In the accompanying drawings: Figure 1 is a vertical section of an organ pipe provided with my improved tuning device. Fig. 2 is a perspective view of the tuning device and associated parts.

Similar letters of reference indicate corresponding parts in both figures.

A indicates the body of the organ pipe; B the eschalot; *b* the tongue; C the block in which the eschalot is secured by any suitable means, and D the boot in the upper end of which the block is inserted.

E indicates the body or shank of the vertically-adjustable tuning wire having the customary arm or finger E¹ terminating in a transverse bar *a* which bears against the face of the tongue. The tuning wire is provided at its upper end with the usual lip or lateral bend *e*¹ adapted to be tapped by a suitable tool for adjusting the wire, and its body-portion passes through a longitudinal opening of the block C. In order to prevent the above-described lateral deflection of the portion of the tuning wire below the block, I provide therefor a rigid guide bracket or support which, while allowing the wire to be freely adjusted up and down in the block, effectually holds its lower portion against springing, thus compelling the finger E¹ to partake promptly and positively in slight and nice adjustments of the tuning wire and permitting ready and accurate tuning of the tongue, and also reliably retaining it in adjusted position.

In the preferred construction shown in the drawings, the wire-guiding or supporting device consists of a tube F secured in a longitudinal opening of the block C and extending a suitable distance below the block, preferably nearly to the lower end of the straight portion of the shank E. The portion of the wire extending below the block is thus guided as rigidly as the portion within the block. As shown, the bore of the tube F is preferably of the proper diameter to snugly fit the tuning wire.

I claim as my invention:

1. A reed organ pipe, comprising a tongue, a tuning wire having a shank and a member arranged at the free end of the shank and bearing against said tongue, and means for holding that portion of the shank adjacent to said member against deflection.

2. A reed organ pipe, comprising an eschalot, a block supporting the same, a tongue a tuning-wire having a finger which bears against the tongue, the body of the tuning-wire being adjustable in said block, and a

rigid guide for the body portion of the tuning-wire extending below the block.

3. A reed-organ pipe, comprising an es-
chalot, a block supporting the same, a tongue,
5 a tuning-wire having a finger which bears
against the tongue, the body of said wire
being adjustable in the block, and a rigid
guide-tube carried by the block and sur-
rounding the body-portion of the tuning-
10 wire below the block.

4. A reed-organ pipe, comprising an es-
chalot, a tongue, a block supporting the es-
chalot, a guide-tube arranged in the block

and extending below the same to a point
opposite the free portion of the tongue, and 15
a tuning-wire having its body portion ad-
justably arranged in said tube and provided
at its lower end with a finger bearing against
the tongue.

Witness my hand this 2d day of December, 20
1910.

ROBERT HOPE-JONES.

Witnesses:

C. F. GEYER,

E. M. GRAHAM.