F. R. SHAW.

MECHANICAL TELEPHONE.

No. 263,973.

Patented Sept. 5, 1882.

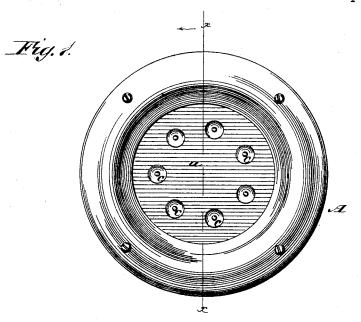
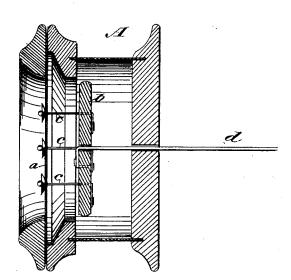


Fig. 2.



WITNESSES:

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ву .

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UNITED STATES PATENT OFFICE.

FRANCIS R. SHAW, OF CHATHAM CENTRE, OHIO.

MECHANICAL TELEPHONE.

SPECIFICATION forming part of Letters Patent No. 263,973, dated September 5, 1882.

Application filed July 11, 1882. (No model.)

To all whom it may concern:

Be it known that I, Francis R. Shaw, of Chatham Centre, in the county of Medina and State of Ohio, have invented a new and Im-5 proved Mechanical Telephone, of which the following is a full, clear, and exact description.

The object of my invention is to obtain a more perfect operation of mechanical telephones in respect to clearness of sound and length of line over which they may be operated, for which purpose I combine with the vibrating diaphragm a vibrator of wood or other suitable material supported from the diaphragm and to which the conducting-wire is connected, as hereinafter described and claimed.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar letters of reference indicate corresponding parts in both the figures.

Figure 1 is a face view of a telephone of my improved construction. Fig. 2 is a transverse section of the same on line x x, Fig. 1.

A is the case of the instrument, which may be of any usual construction, and is provided with a diaphragm, a, covering the aperture of the mouth-piece, as usual.

Behind the diaphragm a is a vibrator, b,

which may be of wood, metal, or other substance, and which is connected to the diaphragm a by pins or wires c, that may be as 30 numerous as required, and serve to sustain the vibrator b.

d is a transmitting-wire, passing through the back of the case A and connected at the center with the vibrator b.

In operation, when the instrument is used as a transmitter, the vibrations of the diaphragm a are communicated by the wires c to the vibrator b, and from thence they pass upon the wire d, and the reverse in case the instrument is used as a receiver.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

In combination with the diaphragm of a mechanical telephone, the vibrator b, connected 45 with said diaphragm by pins c, and at the center with the line-wire d, whereby the vibrations may be transmitted by the pin c from the diaphragm to the vibrator, or the reverse, as described.

FRANCIS R. SHAW.

Witnesses:

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