

(No Model.)

S. B. RAWSON.  
AGITATOR FOR TELEPHONE TRANSMITTERS.

No. 574,761.

Patented Jan. 5, 1897.

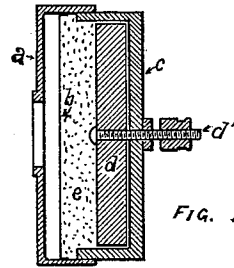


FIG. I.

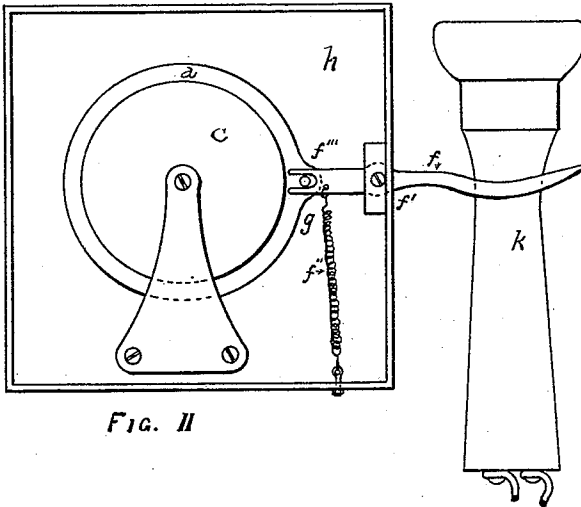


FIG. II.

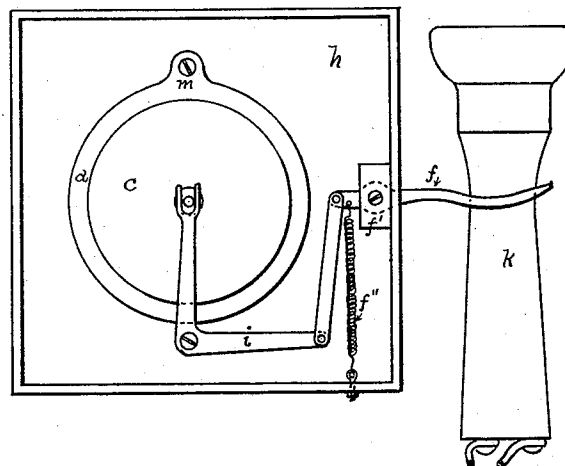


FIG. III.

WITNESSES:

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# UNITED STATES PATENT OFFICE.

SAMUEL B. RAWSON, OF ELYRIA, OHIO.

## AGITATOR FOR TELEPHONE-TRANSMITTERS.

SPECIFICATION forming part of Letters Patent No. 574,761, dated January 5, 1897.

Application filed January 14, 1895. Serial No. 534,797. (No model.)

*To all whom it may concern:*

Be it known that I, SAMUEL B. RAWSON, a citizen of the United States, residing at Elyria, in the county of Lorain and State of Ohio, have invented a new and useful Agitator for Agitating the Dust in Dust-Transmitters for Telephones, of which the following is a specification.

My invention relates to improvements in agitators for dust-transmitters for telephones, in which transmitters there is a layer or body of dust confined back of the diaphragm; and the object of my improvement is to provide transmitters in which dust is used back of the diaphragm with a simple means of agitating the dust by movement or change of position of the transmitter, whereby any tendency of the dust to pack down into a more or less solid mass may be prevented, as it is more or less liable to do under certain climatic conditions or where the transmitter is put up in such a position that the same is subject to a jarring action, as from operative machinery in buildings or other causes, whereby the dust in the transmitter may become more or less packed and thereby have its efficiency greatly impaired.

I attain the object of my invention by means of the mechanism illustrated in the accompanying drawings, in which—

Figure 1 is a vertical sectional view of a dust-transmitter. Fig. 2 shows the transmitter so attached to a lever as to admit of its being partially rotated, and Fig. 3 shows the transmitter so connected with a lever by means of intermediate mechanism that the transmitter will swing back and forth like a pendulum when the outer end is operated.

Similar letters refer to similar parts throughout the several views.

*a* represents the front face or case of the transmitter.

*b* represents the diaphragm.

*c* represents the cover or back case, *d* the carbon held in position by the screw *d'*, extending through the back, and *e* the dust-chamber partially filled with dust.

*d''* is a nut which by being screwed down holds the carbon disk *d* securely in place against the backboard *c*, and the nut *d'''* is for the purpose of securing and forming contact with the line-wire. The whole may be

supported or attached to the casing *h* by being pivoted on an arm *c'* by means of the screw *d'*, as shown on Fig. 2, or by means of an edge projection, as shown at *m* in Fig. 3, or any other means that will permit of the rotation or other movement of said transmitter that may be desired.

In Fig. 2 the transmitter is secured to a box *h* or casing by being pivoted, by means of the screw *d'*, to a bracket or arm *c'*, attached to said box *h* or other suitable means in such a manner as to permit of its partial rotation. *f* represents a receiver-hook pivoted at *f'* and the inner end connected with a spring *f''* for holding same down when the outer end is left free. The extreme inner end of the arm *f'''* is bifurcated to engage a pin *g* on the transmitter. When the receiver *k* is hung on the outer end of the lever, the inner end is raised up and partially rotates the transmitter. When the receiver *k* is taken off the end of the lever or hook, the spring *f''* depresses the inner end of the lever or receiver-hook and the transmitter is rotated in an opposite direction, and the transmitter is rotated one way and the other as often as the lever *f* is raised or lowered.

In Fig. 3 the transmitter is pivoted at *m* and the lever *f* and transmitter are connected by means of a bell-crank *i*, whereby a different or pendulum motion is given to the transmitter; and it is evident other and further modifications of my invention can be made for the purpose of rotating or producing movement of the transmitter and thereby agitating the dust therein.

What I claim as new, and desire to cover, broadly, and secure by Letters Patent of the United States, is—

A centrally-pivoted dust-transmitter in a telephone, a lever for removably holding the receiver, said lever provided with a slot at its inner end and engaging a pin attached to said transmitter, all in combination, whereby the operating of said lever will impart motion to said transmitter and thereby agitate the dust contained therein, all as above set forth and substantially as described.

SAMUEL B. RAWSON.

Witnesses:

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