

(No Model.)

S. B. RAWSON.

CUT-OUT AND AGITATOR FOR DUST TRANSMITTERS FOR TELEPHONES.

No. 578,771.

Patented Mar. 16, 1897.

Fig. 1.

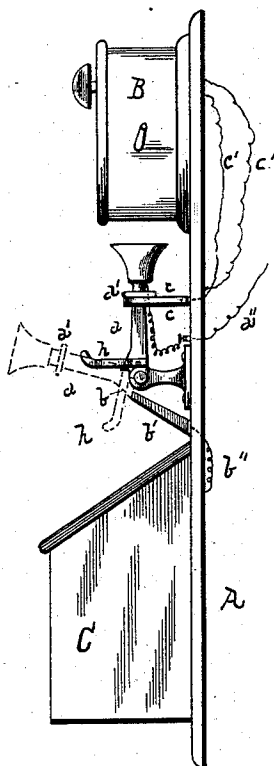


Fig. 3.

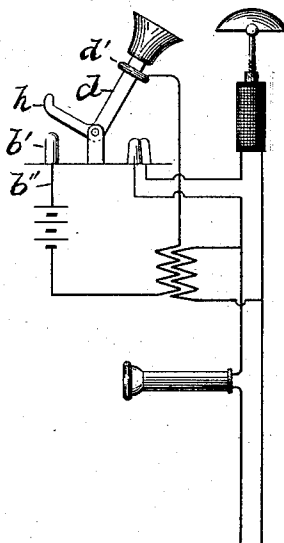
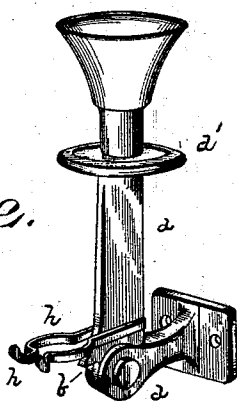


Fig. 2.



Witnesses
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UNITED STATES PATENT OFFICE.

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CUT-OUT AND AGITATOR FOR DUST-TRANSMITTERS FOR TELEPHONES.

SPECIFICATION forming part of Letters Patent No. 578,771, dated March 16, 1897.

Application filed June 14, 1895. Serial No. 552,799. (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
5 invented a new and useful Device for Agitating the Dust in Dust-Transmitters for Telephones and Cutting Out and In the Batteries and Bells Connected Therewith, of which the following is a specification.

10 My invention relates to a new and novel combination and construction of parts with a jointed arm, switches, and connections, to the outer end of which arm is attached a dust-transmitter with proper connections and
15 switches, whereby in the use and operation of said dust-transmitter the dust in the same is agitated and the batteries and bells are cut out and in, as is more fully hereinafter set forth; and the object of my invention is to
20 provide a simple and convenient device which will accomplish the results above specified and form a convenient receiver-hook.

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

25 Figure 1 is a side view showing the application of my invention to an ordinary dust-transmitter with its connecting parts; and Fig. 2 is an enlarged view of the jointed arm, more
30 fully showing the details of its construction. Fig. 3 is a diagram illustrating the circuits and connections.

Similar letters refer to similar parts throughout the several views.

35 A represents the ordinary backboard to a telephone, B the bell-box with electric bells, and C the battery-box, all of which are of the ordinary form and construction, but can be modified to suit any convenience.

40 a represents a jointed arm, the inner end of which is attached to the backboard by any suitable means, and to the outer end of this arm is attached a dust-transmitter *a'*, and to this transmitter is attached the battery-wire
45 *a''*. On the outer end of this jointed arm and on the lower side, when in the position shown by dotted lines in Fig. 1, the next to the joint, is a projection or lip *b*. Below the inner end of the jointed arm and attached to the back-
50 board is the flexible finger *b'*, and connected with the battery-circuit wire *b''*, and so ad-

justed that when the outer end of the arm *a* is lowered and in the position shown by dotted lines in Fig. 1 connection is made to the
outer end of the finger *b'* by engaging with the
5 projection or lip *b* and the battery-circuit
through the arm and transmitter thereby
formed and completed, and the transmitter is
then in position and condition for transmitting
60 sound.

c c are two spring-fingers, one connected with the bell-coils and the other with the line
by the wires *c' c'*, and are of such a distance
apart that they will admit of the introduction
between them of the outer end of the arm *a*
65 and then slightly impinge against said arm, thereby completing the circuit through the arm with the bells, by means of which the bells are cut in and may be rung in the ordi-
70 nary manner. When the outer end of the arm *a* is thrown up between fingers *c c*, the connection between the finger *b'* and lip *b* is severed.

h is a hook for holding the receiver when the outer edge of the arm *a* is thrown up. 75
The connections with the battery-bells and receiver may all be of the usual form.

The operation of my invention is as follows: In order to make a call or ring the bells, it is
80 necessary that the outer end of the arm *a*, carrying the transmitter, be swung up between the fingers *c c*, thereby completing the circuit for the bells, and in order to transmit sound the arm must be brought down until a connection is formed between *b'* and *b*. The
85 changing of the position of the outer end of the arm *a* from one position to the other likewise changes the position of the transmitter accordingly, and the dust therein contained is thereby agitated and disturbed and its po-
90 sition changed, and thereby prevented from becoming packed.

Having fully described my invention and its operations, what I desire to secure by Letters Patent of the United States is— 95

1. In a telephone, the dust-transmitter on a jointed arm, a battery-wire connected to said arm and movable therewith, the bell connections having fingers in position to be engaged and thrown into circuit by said arm in one po-
100 sition, and the transmitter having a finger connected to the battery-circuit and in posi-

tion to be engaged by the arm when in another position, all combined substantially as described.

2. The backboard having the insulated
5 jointed arm connected thereto, the bell-circuit having fingers in position to be engaged by said arm when swung upward, the transmitter having a finger in position to be engaged by said arm when swung downward,

the battery-circuit connected to said arm and 10 transmitter, and the dust-transmitter carried by said arm, all combined and arranged substantially as described.

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