

(No Model.)

R. P. GREEN.
TELEPHONE TRANSMITTER.

No. 567,132.

Patented Sept. 8, 1896.

Fig. 1

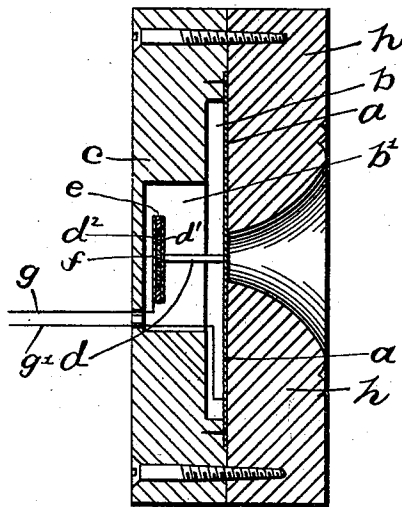


Fig. 2

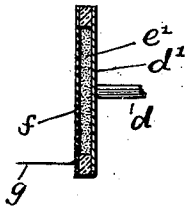
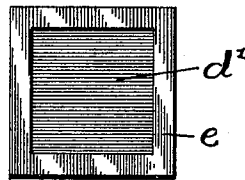


Fig. 3



WITNESSES:

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ROBERT P. GREEN, OF COLUMBUS, OHIO.

TELEPHONE-TRANSMITTER.

SPECIFICATION forming part of Letters Patent No. 567,132, dated September 8, 1896.

Application filed May 31, 1895. Renewed February 12, 1896. Serial No. 579,103. (No model.)

To all whom it may concern:

Be it known that I, ROBERT P. GREEN, a citizen of the United States, residing at Columbus, in the county of Franklin and State of Ohio, have invented a certain new and useful Improvement in Telephone-Transmitters, of which the following is a specification.

My invention relates to the improvement of telephone-transmitters; and the objects of my invention are to provide a transmitter of this class of superior construction and arrangement of parts, to construct the same in a simple, inexpensive, and effective manner, and to produce other improvements in details of construction and arrangement of parts, which will be more fully pointed out hereinafter. These objects I accomplish in the manner illustrated in the accompanying drawings, in which—

Figure 1 represents a central vertical section of my improved transmitter. Fig. 2 is an enlarged central vertical sectional view of the inner or secondary diaphragm; and Fig. 3 is a view in elevation of said secondary diaphragm, showing one of the face-plates removed therefrom.

Similar letters refer to similar parts throughout the several views.

In the construction of my device I employ an outer or main diaphragm *a*, of thin sheet metal or other suitable material, the latter being secured over the enlarged mouth portion *b* of a recess *b'*, formed in a suitable transmitter-block *c*, of non-conducting material.

The main diaphragm-plate *a* has extending from its center and projecting into the recess *b'* a metallic stem *d*. To the inner end of this stem *d* is secured the central portion of the metallic backing-plate *d'* of the inner or secondary diaphragm *d*². In constructing the secondary diaphragm I secure to the inner face of said plate *d'*, adjacent to its edge portions, a frame or gasket *e*, preferably formed of paper or pasteboard, but which may be formed of any suitable non-conducting material. In this manner a shallow cup or recess is formed within said frame, which said space I fill with granular sulfid of copper or other suitable conducting substance *e'*. Over the

open side of the receptacle or cup formed as above described I secure a metallic plate *f*, corresponding with the plate *d'*.

g and *g'* represent, respectively, the battery-wires, one of which leads from the plate *f* and the remaining one of which leads from the main diaphragm *a*. Over the outer face of the main diaphragm and against the block *c* I secure a suitable mouthpiece *h*.

In operation the voice vibrations or sound-waves are transmitted from the main diaphragm through the stem or pin *d* and backing-plate *d'*. Through the medium of the granular-conducting substance *e'* the vibrations or sound-waves are conveyed to the plate *f* and thence off through the line-wire *g*.

Although I have shown and described herein a form of mouthpiece and transmitter frame-block, it is evident that these parts may be changed or altered as desired without affecting my invention.

What I claim, and desire to secure by Letters Patent, is—

1. In a telephone-transmitter the combination of the main diaphragm *a*, a conducting-pin secured to and projecting from said main diaphragm, an inner or secondary diaphragm consisting of two conducting-plates the inner faces of said plates being separated by a frame of non-conducting material, a filling of granular conducting substance between said plates, a wire leading from the secondary diaphragm and a wire leading from the main diaphragm, substantially as and for the purpose specified.

2. In a telephone-transmitter the combination with a main diaphragm, a mouthpiece in front of the same and a pin projecting inward from said main diaphragm opposite said mouthpiece-opening, of an inner or secondary diaphragm consisting of two conducting-plates *d'* and *f*, a filling of granular sulfid of copper between said plates, one of said plates being secured to and supported from the pin *d* and wires *g g'* leading respectively from the main and secondary diaphragms, substantially as and for the purpose specified.

ROBERT P. GREEN.

In presence of—

C. C. SHEPHERD,
A. L. PHELPS.