

No. 836,674.

PATENTED NOV. 27, 1906.

M. FRANK.
SOUND SENSITIZER.
APPLICATION FILED SEPT. 13, 1906.

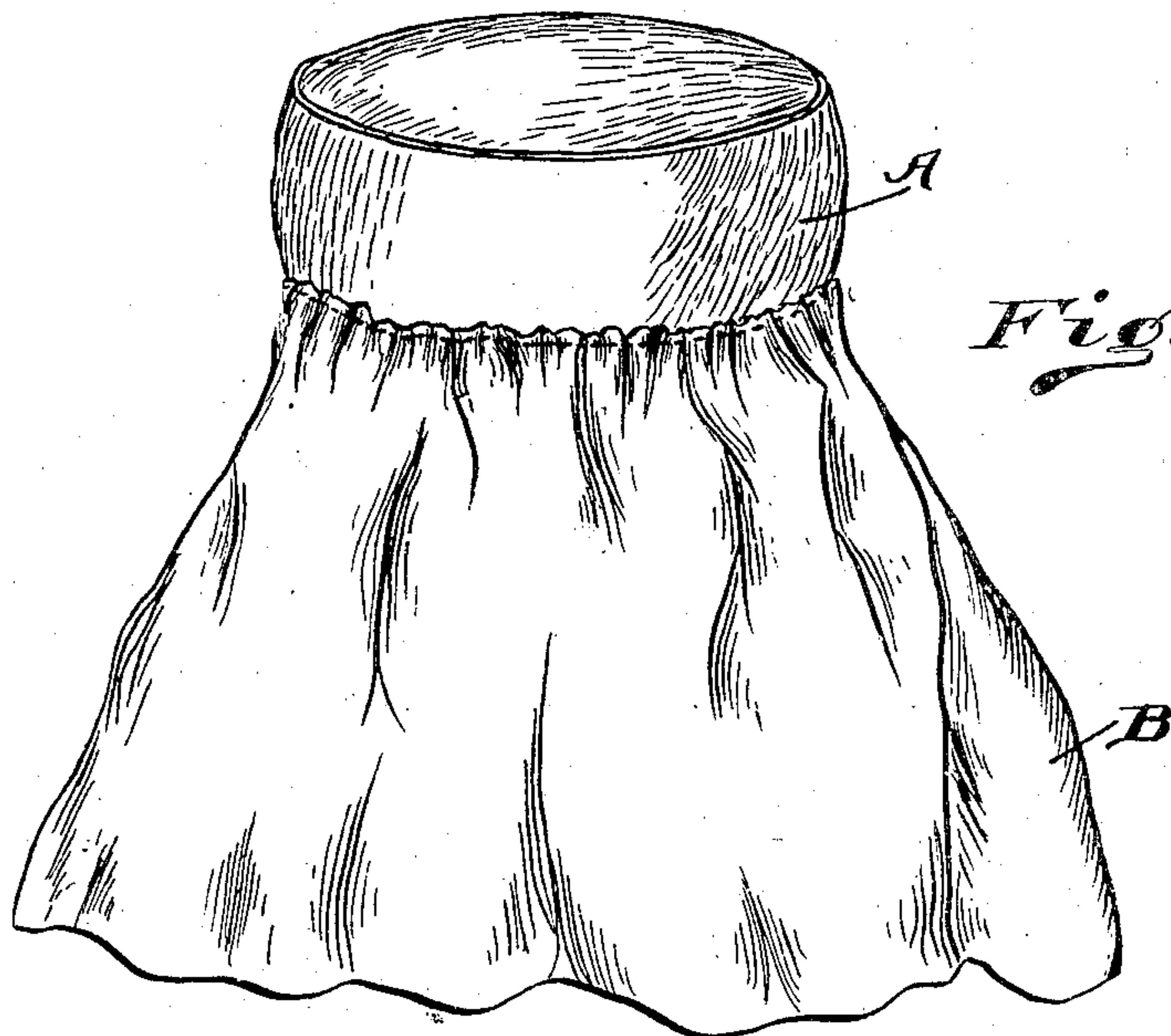


Fig. 1.

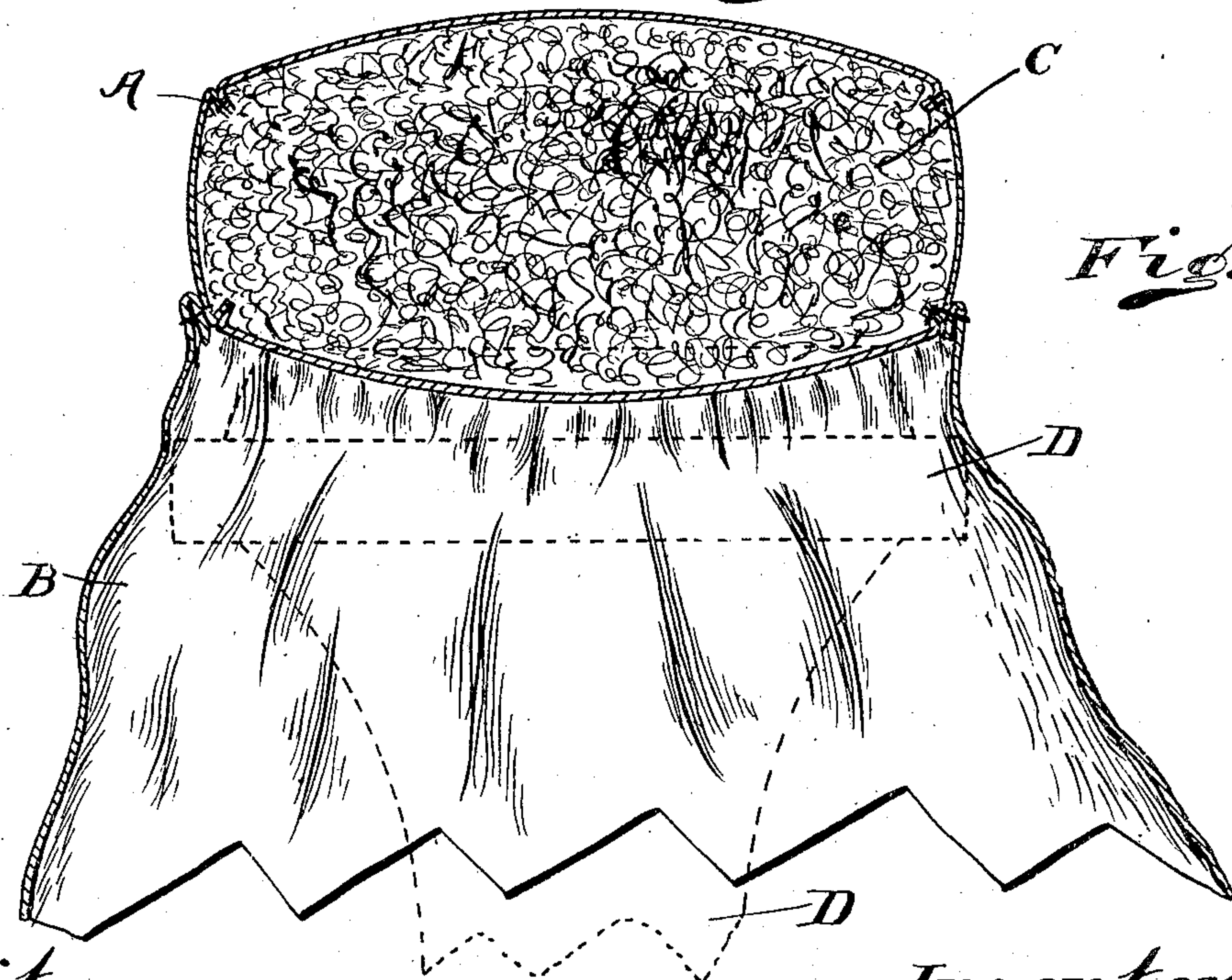


Fig. 2.

Witnesses
Leo O. Donnell
Luise Beck

Inventor
Marcus Frank
By *Wool & Wool*
Attorneys

UNITED STATES PATENT OFFICE.

MARCUS FRANK, OF CINCINNATI, OHIO.

SOUND-SENSITIZER.

No. 836,674.

Specification of Letters Patent.

Patented Nov. 27, 1906.

Application filed September 13, 1906. Serial No. 334,544.

To all whom it may concern:

Be it known that I, MARCUS FRANK, a citizen of the United States, residing at Cincinnati, in the county of Hamilton and State of Ohio, have invented certain new and useful Improvements in Sound-Sensitizers, of which the following is a specification.

My invention relates to a device to be attached and used as an auxiliary to a sound-receiving instrument.

The object of my invention is to render the transmission of sound to the ear clearer and more distinct by increasing the volume of sound. It also muffles or deadens other sounds than those transmitted by the receiving instrument.

As shown in the accompanying drawings, the device is illustrated as adapted to be used with the receiving instrument of an ordinary telephone; but it can readily be applied to other sound-receiving instruments. This instrument I term a "sound-sensitizer."

The features of my invention are more specifically set forth in the description of the accompanying drawings, forming a part of this specification, in which—

Figure 1 is an elevation of my improved sound-sensitizer. Fig. 2 is a central vertical section of Fig. 1, showing a telephone-receiver in dotted lines in position for use.

A represents the body of the sensitizer, which is preferably made of muslin or some other similar fabric. B represents the skirt thereof, which is attached to the lower marginal edge of the sensitizer and depends down far enough to be grasped by the hand and pressed against the walls of the receiving instrument and to hold the lower surface of the sensitizer in firm contact with the mouth of the receiver.

D represents the sound-receiving instrument.

C represents feathers which form the body and act as the sound-transmission agent. Live elastic feathers should be employed, and they should be somewhat loosely packed in the body of the sensitizer. The thickness of the feathers, which are the sound-transmitting media, are from half an inch to an

inch and a half in thickness. The skirt B serves a double purpose. It is a convenient media for holding the sensitizer firmly upon the mouth of the receiving instrument. It also prevents extraneous sounds from coming in contact with the mouth and shank of the receiving instrument. The filling of feathers being somewhat loosely packed and resilient is pressed against the ear and is sufficient in size to cover the entire ear and effectually excludes extraneous sounds from either reaching the ear, which receives only the sound transmitted through the instrument and through the sensitized media and causing the same to be heard with a great clearness and distinctness.

It is obvious that the sensitizer may be detachably connected to the receiving instrument by a rubber band or other similar device.

Having described my invention, I claim—

1. In combination with a sound-receiving instrument, a sensitizer composed of feather media inclosed in a fabric of a size adapted to cover the mouth of the receiver on one side, and to cover the organ of the ear with the other side, substantially as described.

2. In combination with a sound-receiving instrument, a sensitizer composed of feather media inclosed in a fabric of a size adapted to cover the mouth of the receiver on one side, and to cover the organ of the ear with the other side, and means attached to the sensitizer, adapted to surround the shank of the receiving instrument for firmly holding the same in contact therewith, substantially as described.

3. A sound-sensitizer composed of a feather media loosely inclosed in a bag-like structure having dimensions suitable to fit a receiving instrument on one side and to cover the hearing organ with the other side, substantially as described.

In testimony whereof I have hereunto set my hand.

MARCUS FRANK.

Witnesses:

LEO O'DONNELL.

LUISE BECK.