

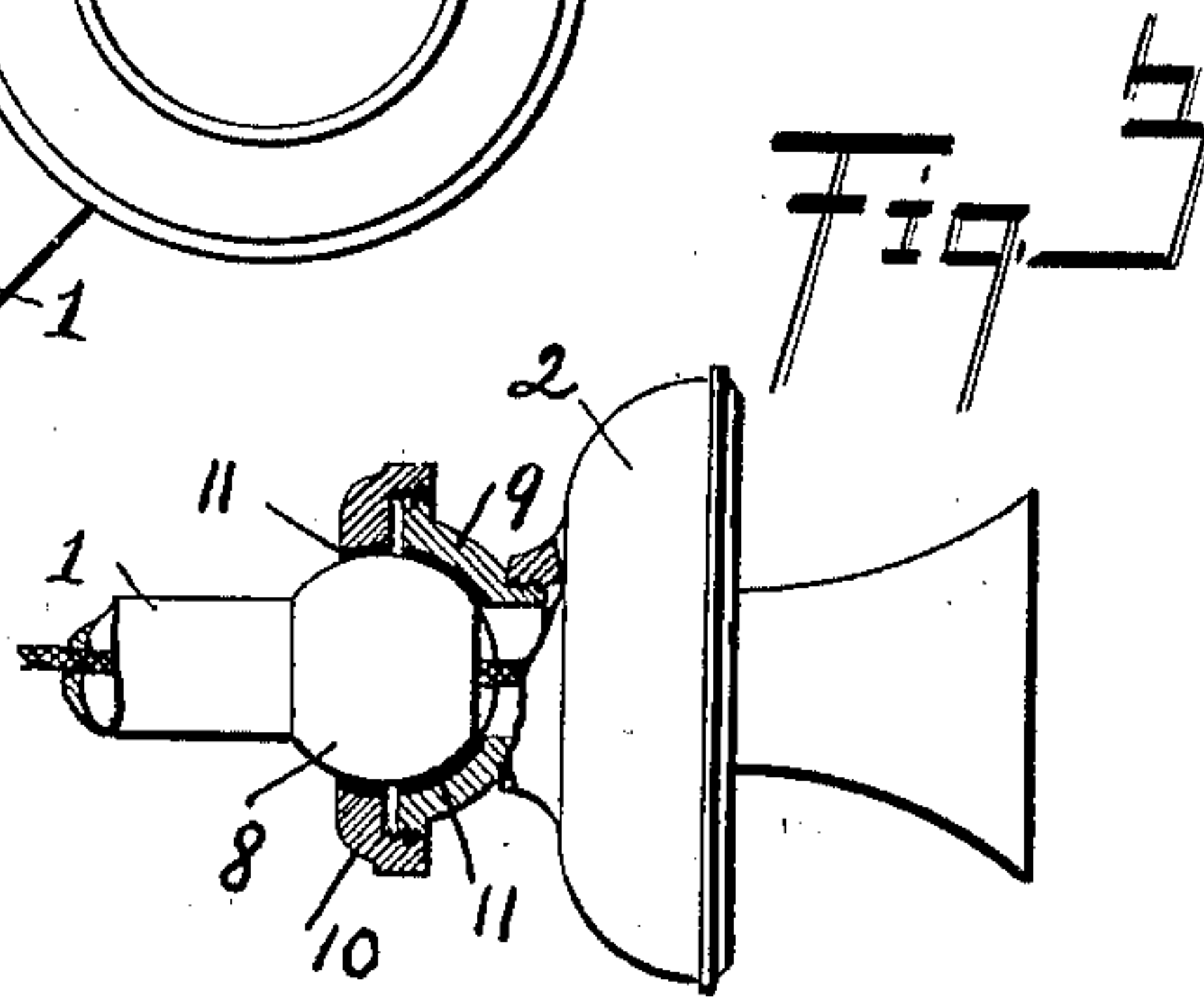
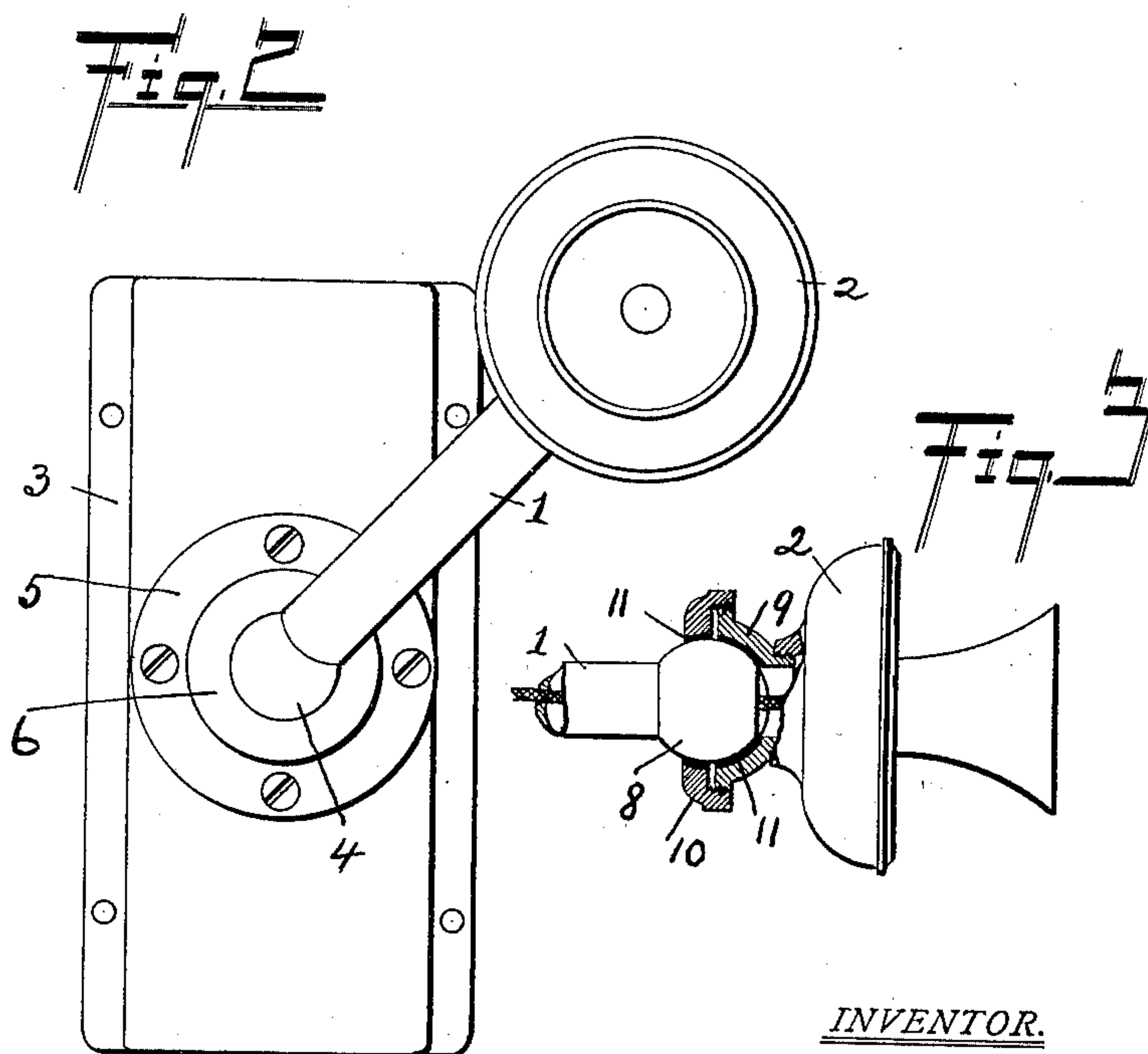
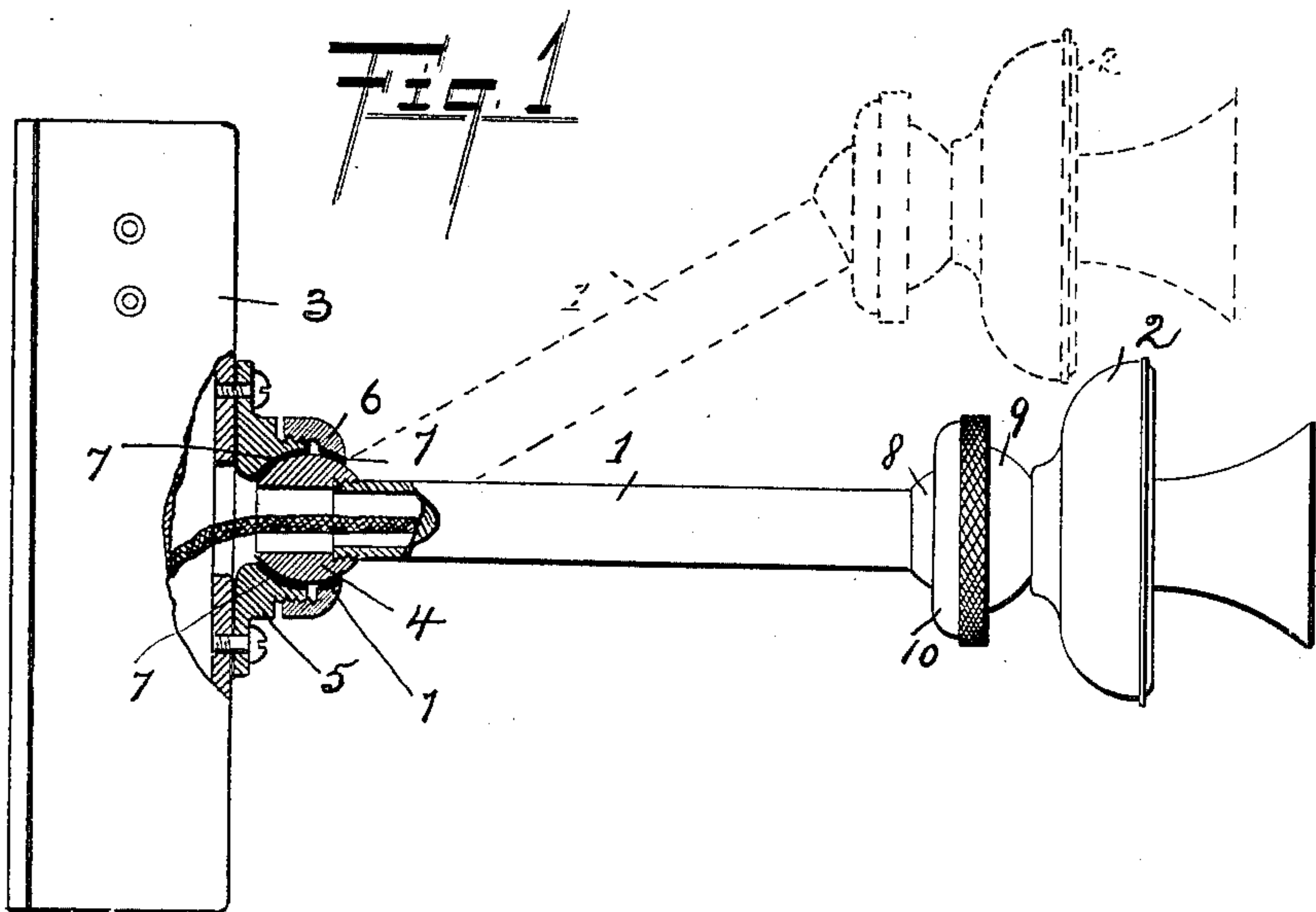
No. 657,288.

Patented Sept. 4, 1900.

G. R. KENNEDY.
TELEPHONE TRANSMITTER ARM.

(Application filed Apr. 12, 1900.)

(No Model.)



WITNESSES:

W. J. Fawcett.
George Wilson.

INVENTOR.

George Russell Kennedy
BY *Richard S. Harrison*
his ATTORNEY.

UNITED STATES PATENT OFFICE.

GEORGE RUSSELL KENNEDY, OF ALLEGHENY, PENNSYLVANIA.

TELEPHONE TRANSMITTER-ARM.

SPECIFICATION forming part of Letters Patent No. 657,288, dated September 4, 1900.

Application filed April 12, 1900. Serial No. 12,588. (No model.)

To all whom it may concern:

Be it known that I, GEORGE RUSSELL KENNEDY, a citizen of the United States, residing at No. 1236 Resaca Place, Allegheny, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in Telephone Transmitter-Arms; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the figures of reference marked thereon, which form a part of this specification.

This invention relates to certain new and useful improvements in telephone transmitter-arms.

One object of my invention is to provide a transmitter-arm that can be adjusted to any desired position.

Another object is to construct the arm in such form as to conceal the wires leading to and from the transmitter.

I accomplish these objects by the mechanism illustrated in the accompanying drawings, in which—

Figure 1 is a side elevation of my device, partly shown in section. Fig. 2, is a front elevation of the same. Fig. 3 is a side elevation of a portion of the arm and transmitter, partly in section.

In said drawings similar detail parts in all views are designated by numerals of like character.

Referring to the drawings, the numeral 1 designates a tube, circular in cross-section, which is coupled at one end to the transmitter-case 2 by a ball-and-socket joint and at its opposite end by a similar joint to the induction-coil case 3.

The coupling between the tube and induction-coil case consists of a rounded collar 4, threadably attached to the end of the tube to engage within an adjustable socket formed upon or secured to the face of the induction-coil case. This socket is composed of an open cup or shell 5, arranged upon the case to receive and form a seat for the tube-collar. A threaded jam-collar 6 is employed to engage the threaded extension 5' of the socket-cup

and the tube-collar to secure the tube in position. The inner surfaces of the cup and jam-collar where they engage the tube-collar have cemented upon their surfaces the gaskets 7. These gaskets are composed of paper, leather, or other suitable material capable of offering sufficient frictional resistance to retain the tube in any position desired. This resistance may be increased or diminished, as desired, by means of the jam-collar. A somewhat similar form of joint is formed where the tube connects with the transmitter-case. This joint consists of a rounded collar 8, threadably secured to the tube end, which is seated within an open cup 9, connected to the transmitter-case. A threaded jam-collar 10 is screwed upon the cup-rim to secure the tube in position. Gaskets 11 are also employed in this socket for the purpose previously specified.

Any suitable form of transmitter-case having a resonance speaking-cup 13 thereon may be employed by attaching the socket to the rear. In this case the wires 14, which extend between the induction-coil and transmitter, are entirely hidden from view, and at the same time the working parts are protected from dust.

By the use of this device it will be readily understood that the transmitter may be moved into and held in any position desired. In cases where it is desired to adjust the transmitter-arm alone the ball-and-socket joint at the transmitter may be dispensed with and the tubular arm connected direct with the transmitter-case.

I am aware that previous to my invention ball-and-socket joints have been employed in connection with speaking-tubes and transmitters; but they differ from my invention in construction and use. I therefore do not broadly claim such as my invention.

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

The combination of a tube having an open ball threadably attached to each end, a transmitter-cup 2 having a threaded opening formed through its rear wall, a cup threadably secured within the opening of said case to receive the ball at one end of said tube, a

jam-collar threadably secured upon said cup
to engage with and retain the ball in its seat,
an induction-coil case 3 having an opening
formed through its front wall, a cup secured
5 upon the face of said case over the opening
to receive the ball at the opposite end of the
tube, and a jam-collar threadably secured to
said cup to engage with and retain the ball
in its seat, all arranged and combined with

one another substantially as shown and set forth.

In testimony whereof I affix my signature
in presence of two witnesses.

GEORGE RUSSELL KENNEDY.

Witnesses:

RICHARD S. HARRISON,
JAS. J. MCAFEE.