

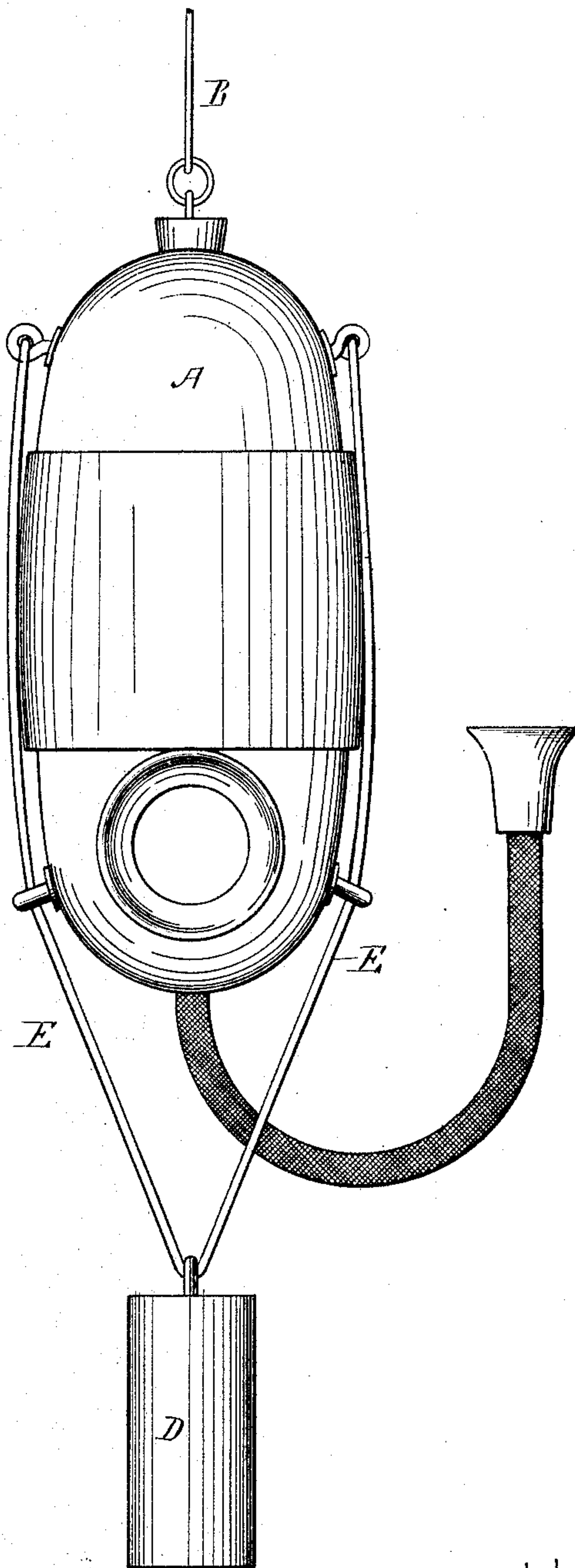
(No Model.)

2 Sheets—Sheet 1.

G. W. LORD.
MECHANICAL TELEPHONE.

No. 356,594.

Patented Jan. 25, 1887.



WITNESSES.

George W. Tisdale
C. W. Campbell

Fig. 1.

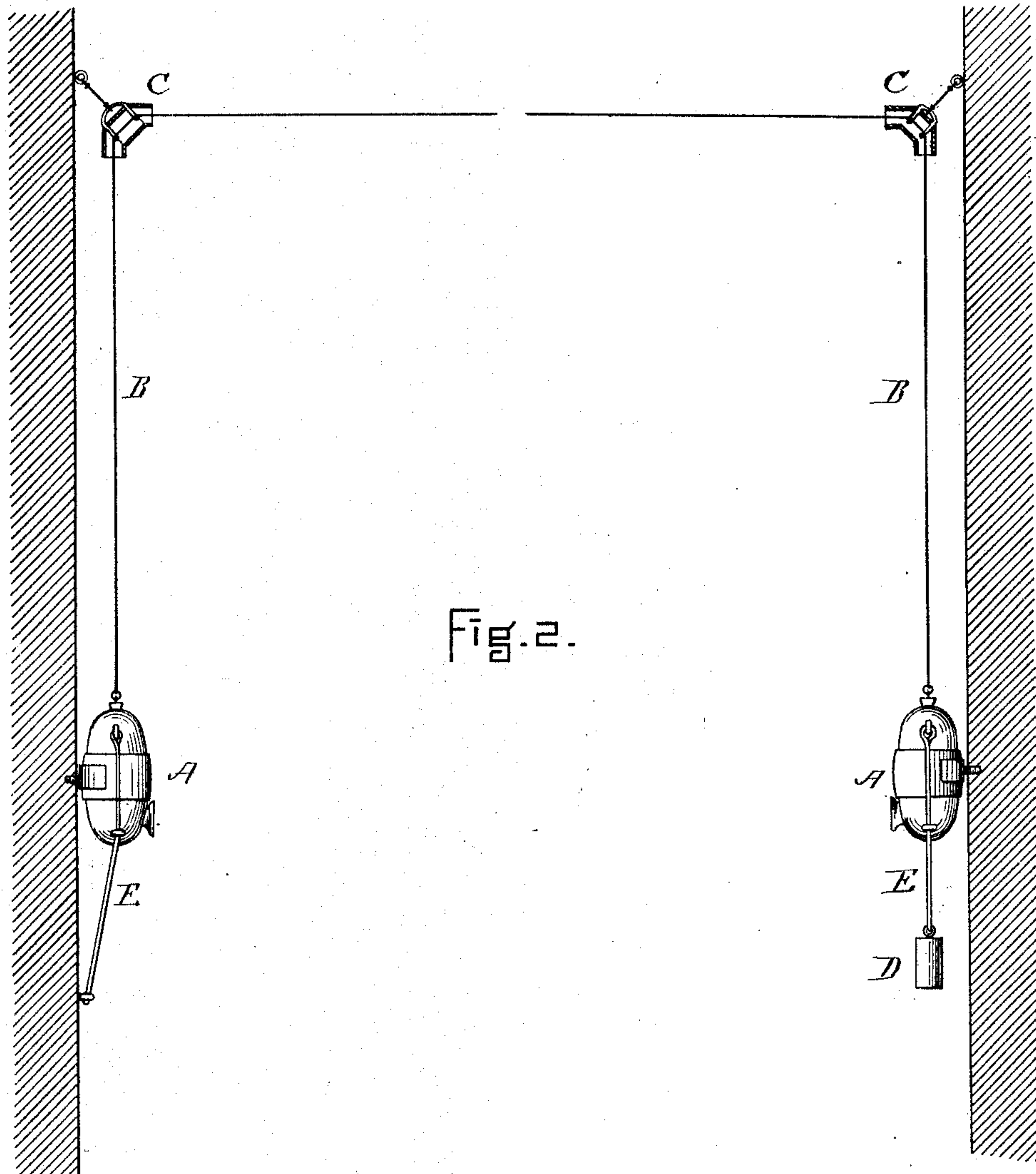
INVENTOR.

George W. Lord
by his attorney
Ally. L. Hays

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UNITED STATES PATENT OFFICE.

GEORGE W. LORD, OF BOSTON, MASSACHUSETTS, ASSIGNOR TO THE LORD ACOUSTIC TELEPHONE MANUFACTURING COMPANY, OF SAME PLACE.

MECHANICAL TELEPHONE.

SPECIFICATION forming part of Letters Patent No. 356,594, dated January 25, 1887.

Application filed October 16, 1886. Serial No. 216,381. (No model.)

To all whom it may concern:

Be it known that I, GEORGE W. LORD, a citizen of the United States, and a resident of Boston, in the county of Suffolk and State of Massachusetts, have invented a new and useful Improvement in Mechanical Telephones and Lines Connected Therewith, of which the following is a specification.

In order that a mechanical telephone-line may act efficiently it is necessary that the conducting-wire should be stretched at a certain tension; but, owing to various reasons, it is found difficult to maintain this tension constant for any considerable period.

The object of my invention is to overcome this difficulty and to obtain a mechanical telephone-line which will be self-adjusting and be constantly maintained at the desired tension.

To this end the invention consists in extending the conducting-wire vertically for a certain distance from the telephone, in connection with the use of a telephone which is suspended from said wire and has sufficient weight to give the desired tension to the line.

In the accompanying drawings, Figure 1 is a view of a telephone-line constructed according to the principle of my invention, and Fig. 2 is a view of a weighted telephone which may be used.

In these several figures the same letters refer to the same parts.

In carrying my invention into effect I prefer to support the line-wire by means of the angle-hanger described in Letters Patent No. 346,594, August 3, 1885, or that which is described in my application for a patent Serial No. 181,908, which forms of angle-hanger permit the conducting-wire to be extended vertically from the telephone, and also permit the wire to move freely upon its support.

The form of telephone which I prefer to use is similar to that described in my application for patent Serial No. 214,622, with the exception that it has an opening in the side in which a mouth-piece is inserted, though any other form of telephone can be used which is of such construction that it can be suspended from the conducting-wire.

Referring to the drawings, A A are the telephones, B is the conducting-wire, and C C are the angle-hangers which support the wire at the point from which it extends vertically to the telephone. This point should be a few feet from the telephone to insure the best results.

In the drawings only one of the telephones is represented as suspended from the conducting-wire and capable of vertical movement; but, if desired, both telephones may be so attached.

The necessary weight may be given to the telephone in different ways. A convenient method is that shown in Fig. 2, in which a weight, D, is represented as attached to the telephone by cords E E. It will be seen that by means of this method of attaching the telephone and weighting the same the line will be maintained at a constant tension and will be self-adjusting to the variations in length caused by changes in the temperature.

Having thus described my invention, what I claim, and desire to secure by Letters Patent of the United States, is—

1. A mechanical telephone-line in which the conducting-wire is maintained at a constant tension by the weight of the telephone, substantially as and for the purpose set forth.

2. In a mechanical telephone-line, the combination, substantially as and for the purpose set forth, of a conducting-wire extending vertically to a telephone from a suitable support and a weighted telephone suspended from said wire, substantially as and for the purpose set forth.

3. In a mechanical telephone-line, the combination, substantially as and for the purpose set forth, of the angle-hanger C, as described, the conducting-wire B, extending vertically from the same, and the weighted telephone A.

In witness whereof I have hereunto set my hand in the presence of the two subscribing witnesses.

GEORGE W. LORD.

Witnesses:

THOMAS F. WELLS,
JAS. W. BRIGGS.