

(No Model.)

P. H. D'UNGER.
TELEPHONE.

No. 478,692.

Patented July 12, 1892.

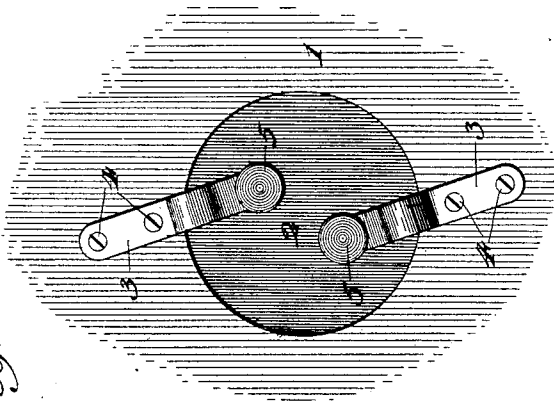


Fig. 2

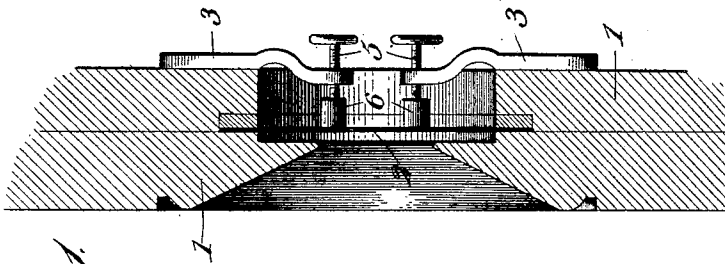


Fig. 1

Witnesses:

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Inventor:

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By

Atty.

UNITED STATES PATENT OFFICE.

PAUL H. D'UNGER, OF CHICAGO, ILLINOIS, ASSIGNOR TO THE D'UNGER
LONG DISTANCE TELEPHONE COMPANY, OF SAME PLACE.

TELEPHONE.

SPECIFICATION forming part of Letters Patent No. 478,692, dated July 12, 1892.

Application filed March 29, 1892. Serial No. 426,931. (No model.)

To all whom it may concern:

Be it known that I, PAUL H. D'UNGER, of Chicago, Illinois, have invented certain new and useful Improvements in Telephones, 5 whereof the following is a specification.

The object of my invention is to perfect the transmission of articulate speech by telephone. A difficulty met with in telephony has been the running together of the words 10 sent through the instrument, even when the enunciation of the speaker has been good. This is due to the inertia of the diaphragm and to the fact that a strong voice gives it a greater extent of vibration, while a weak 15 voice does not give it enough.

My invention is intended to overcome this difficulty; and to this end it consists in an adjustable damper or buffer—one or more— 20 adapted to act upon the diaphragm and regulate its vibration.

The particular form of the invention which I consider the best is shown in the accompanying drawings, in which Figure 1 is a central

section at right angles to the diaphragm of a transmitting-instrument, and Fig. 2 is a back 25 view of same.

In the figures, 1 is the rim or frame, in which is mounted the diaphragm 2. 3 are arms secured to the frame 1 by screws 4 or otherwise and extending over the diaphragm. 5 are 30 screws tapped through the ends of arms 3, so as to be adjustable therein. 6 are dampers or buffers of india-rubber or equivalent material on the ends of screws 5, which may be pressed more or less hard against the dia- 35 phragm or may be adjusted toward or from it.

I claim—

The combination, substantially as set forth, in a telephone, of the diaphragm, an arm projecting over the diaphragm, a screw in said 40 arm, and a buffer actuated by said screw and adapted to bear against the diaphragm.

PAUL H. D'UNGER.

Witnesses:

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