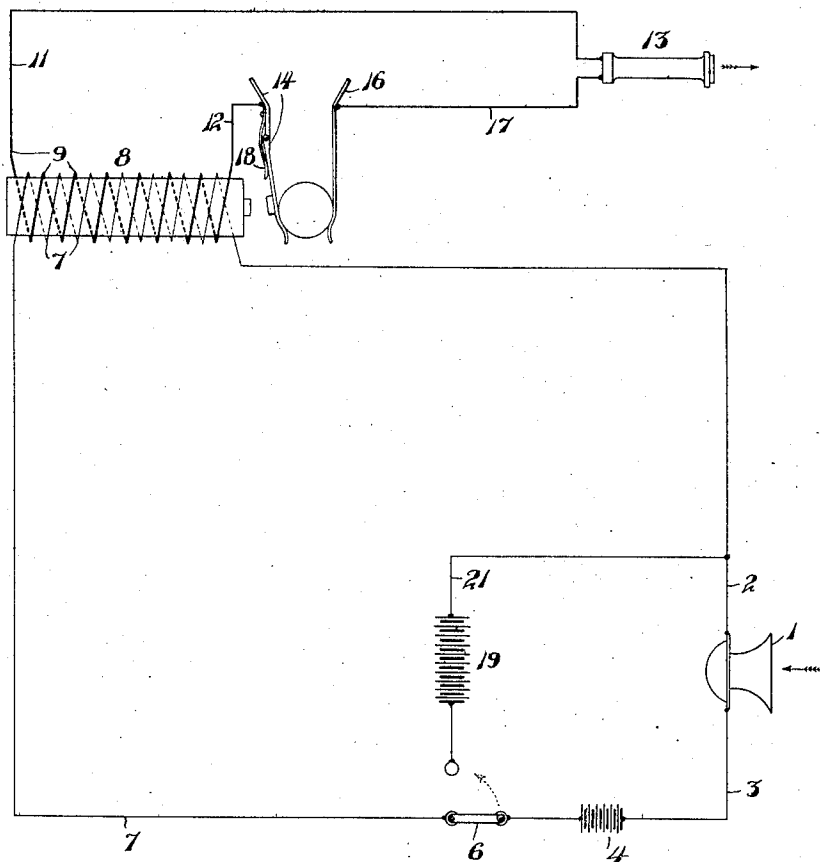


H. J. WHITE.
TELEPHONE SYSTEM.
APPLICATION FILED NOV. 30, 1912.

1,058,505.

Patented Apr. 8, 1913.



WITNESSES

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HOWARD J. WHITE, OF SAN FRANCISCO, CALIFORNIA.

TELEPHONE SYSTEM.

1,058,505.

Specification of Letters Patent.

Patented Apr. 8, 1913.

Application filed November 30, 1912. Serial No. 734,294.

To all whom it may concern:

Be it known that I, HOWARD J. WHITE, a citizen of the United States, residing at San Francisco, in the county of San Francisco and State of California, have invented new and useful Improvements in Telephone Systems, of which the following is a specification.

The present invention relates to that class of telephone systems in which sound, as, for instance, music, is produced at a central station by a transmitter and transmitted over line wires to distant subscribers and received by them through separate receivers, and it has for its object to simplify the construction whereby the deposit of a coin is used to supply the musical or other sounds to the subscriber.

In the accompanying drawing, the figure 20 is a diagrammatic view of the system.

Referring to the drawing, 1 indicates a transmitter at a central station, from which transmitter wires 2 and 3, the latter through a battery 4 and normally closed switch 6, lead to the primary wire 7 of an induction coil 8. The secondary wire 9 of said coil connects with wires 11, 12, of which the wire 11 leads direct to one terminal of a receiver 13, while the wire 12 leads to one metallic side 14 of a coin chute and insulated from the other metallic side 16, which side 16 is connected by a wire 17 with the other terminal of the receiver. Suitable means, not here shown, are provided for preventing the two sides of the chute from being electrically connected except by the deposit of a coin therein. Thus, by depositing a coin in said chute, a subscriber can listen to music or other sounds transmitted from the central station until the coin is removed from its position electrically connecting the two sides of the chute. The side 14 of the chute is movable to and from the side 16 and is pressed toward said side 16 by a spring 18. In order to withdraw the side 14 from the side 16 against the action of said spring, the side 14 is arranged adjacent to the core of the induction coil 8. The current supplied by the battery 4, while sufficient for the telephone action, must not be large enough to energize the induction coil 8, to withdraw the side 14 from the side 16, and permit the coin to drop, for then the secondary circuit would be broken. For the purpose of withdrawing the side 14 from the side 16, there is

provided a battery 19 more powerful than the battery 4, in a branch wire 21, so arranged that the switch 6 can be operated to cut out the battery 4 and to include the battery 19 in the circuit through the primary wire of the induction coil. Thus, whenever it is desired to stop the transmission of music or other sound, said switch is moved in the manner indicated, the movable side 14 of the coin chute is retracted by the induction coil, and the coin dropped into the coin chute.

The novel feature of my invention is the employment of the induction coil itself as a means for operating the coin chute. Heretofore it has been considered necessary to employ a special magnet for this purpose. By employing the induction coil, which is already required for the transmission of musical sounds to the subscriber, for the purpose also of actuating the coin chute to drop the coin, I effect a great saving in the installation of the system.

I claim:—

1. A telephone system comprising a generator and transmitter at a central station, an induction coil, coin-chute, and receiver at a subscriber's station, line wires connecting the generator and transmitter to the primary of the induction coil, wires connecting the secondary of the induction coils with the receiver, the coin-chute being interposed in one of said wires, and opposite sides of said coin-chute being arranged to be electrically connected only by the deposit of a coin therein, one side of said coin-chute being movable to or from the other side, said induction coil being arranged, so that when energized to a greater degree than that required for the telephonic action, to withdraw said side and release said coin, a suitable generator to so energize said coil, and a switch for including said generator in the circuit through the coil.

2. A telephone system comprising a generator and transmitter at a central station, an induction coil, coin-chute, and receiver at a subscriber's station, line wires connecting the generator and transmitter to the primary of the induction coil, wires connecting the secondary of the induction coils with the receiver, the coin-chute being interposed in one of said wires, and opposite sides of said coin-chute being arranged to be electrically connected only by the deposit of a coin

therein, one side of said coin-chute being
movable to or from the other side, said in-
duction coil being arranged, so that when
energized to a greater degree than that re-
5 quired for the telephonic action, to with-
draw said side and release said coin, a suit-
able generator to so energize said coil, and
a switch for cutting out the first-named gen-
erator and including the second-named in

the circuit through the primary of the in- 10
duction coil.

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

HOWARD J. WHITE.

Witnesses:

F. M. WRIGHT,
D. B. RICHARDS.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents,
Washington, D. C."
