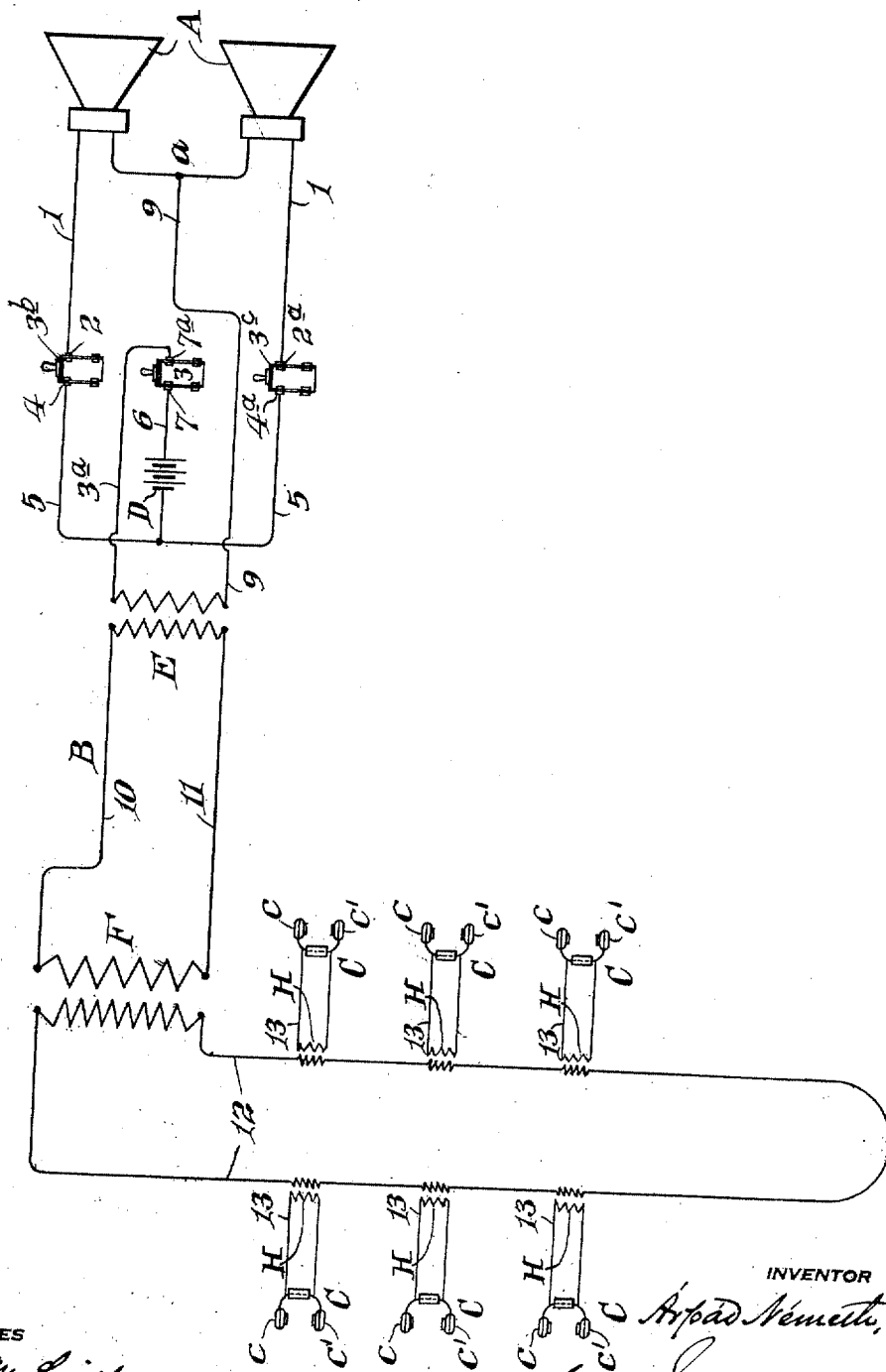


984,235.

Á. NÉMETH.
TELEPHONE SYSTEM.
APPLICATION FILED AUG. 20, 1910.

Patented Feb. 14, 1911.



WITNESSES
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HERALD COMPANY, OF WILMINGTON, DELAWARE, A CORPORATION OF DELAWARE.

TELEPHONE SYSTEM.

984,235.

Specification of Letters Patent.

Patented Feb. 14, 1911.

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To all whom it may concern:

Be it known that I, ÁRPÁD NÉMETH, a subject of the King of Hungary, and now residing at New York, in the county of New York and State of New York, have invented certain new and useful Improvements in a Telephone System, of which the following is a specification.

My invention has relation to a telephone system in which reproductions of news or other happenings by a series of connected microphones manually controlled at a centralizing station, transposed over a line battery circuit are presented in sequence to distant subscribers or sub-stations with augmented clearness in volume and character, thereby rendering such a system owing to the automatic and manually controlled features thereof, particularly adapted for supplying innumerable subscribers or sub-stations through the centralizing station, in sequence, with the undulating sound reproductions of general news, musical compositions, and operas, sermons, correct or standard time and other happenings at stated intervals of day and night and the same controlled at and through the centralizing station.

The nature, general scope and characteristic features of my invention will be more fully understood from the following description taken in connection with the accompanying drawing illustrating diagrammatically, means susceptible of being employed for carrying out my said invention.

In the drawing, A represents a series of connected microphones, any number, located at various different points, but all in electrical connection through a centralizing station B, with innumerable connected distant subscribers or sub-stations, and through which station the reproductions of different happenings are transmitted over a line battery circuit modified in volume and character as to clearness to the innumerable distant subscribers or sub-stations C. All the connected microphones A, are by a line 1, connected with switch-points 2 and 2^a, of blade-switches 3^b and 3^c, and switch-points 4 and 4^a, by a line 5, connected with one pole of a storage battery D, of low voltage. From the switch 3, a line 3^a, leads to the primary coils of a transformer E. The other pole of the battery D, by a line 6, is connected with a switch-point 7, of the

blade-switch 3, and the other point 7^a thereof, with the said line 3^a. The lines 10 and 11, from the secondary coils of the transformer E, are connected with the primary coils of a transformer F, of higher current potential and the secondary coils of said transformer F, are included in a receiving-circuit 12, in which the secondary coils of a series of transformers H, are included to lower the current potential of the sound reproductions. Each of the secondary coils of the several transformers H, at the subscribers' sets or sub-stations C, is included in a circuit 13, in which are arranged head-receivers c, and c^a. The microphones A, as shown, are connected with each other by a line wire a, and that wire at a junction point is connected with a line 9, leading to one end of the primary coils of the said transformer E.

By shifting the switches 3^b and 3^c, from closed to open positions, lines 6, 3^a and 9, with the particular microphones electrically connected, will be cut out, and hence the transmission of reproductions of the news or other happenings over the said lines thereby prevented. By shifting the switch 3, from a closed to an open position, all the connected microphones will be cut out from the battery line circuit with the centralizing station B, to all of the distant sub-stations C, in the instance of storms or other causes.

By the foregoing arrangement, news and other happenings are transmitted over the line battery circuit through the centralizing station B, and the reproductions disseminated modified uniformly in volume and character as to clearness or sharpness to the distant subscribers' sets or sub-stations by a low voltage battery at the centralizing station, and manual control thereof of news or other happenings to be transmitted in sequence at stated intervals to the distant subscribers' sets or sub-stations is provided; and further a series of transformers for progressively increasing current potential at the said station, and lowering of current potential at each subscriber's set or sub-station is provided with the result that the said reproductions are decidedly uniform in volume and character thereat.

Having thus described the nature and objects of my invention, what I claim as new and desire to secure by Letters Patent is:—

In a telephone system, the combination of

telephone transmitters, each located at a separate point, line circuits for said transmitters leading therefrom to a centralizing station, a common current supply at said
5 central station for said circuits, means at said central station for controlling the operative circuit of any one of said transmitters, means also at said central station for controlling all the circuits of said transmitters,
10 a plurality of transformers associated with said transmitter circuits for progressively increasing the current potential, the primary of one of said transformers being common to all the transmitter circuits, a receiving-circuit
15 cuit associated with one of said trans-

formers, a plurality of sub-stations associated with said receiver-circuit and means associated with each sub-station for decreasing the current potential uniformly with respect to each sub-station, whereby the reproductions at the sub-stations are rendered uniform in volume and character. 20

In witness whereof, I have hereunto set by signature in the presence of two subscribing witnesses.

ÁRPÁD NÉMETH.

Witnesses:

CORNELIUS C. BALASSA.

H. W. ALLERS, Jr.