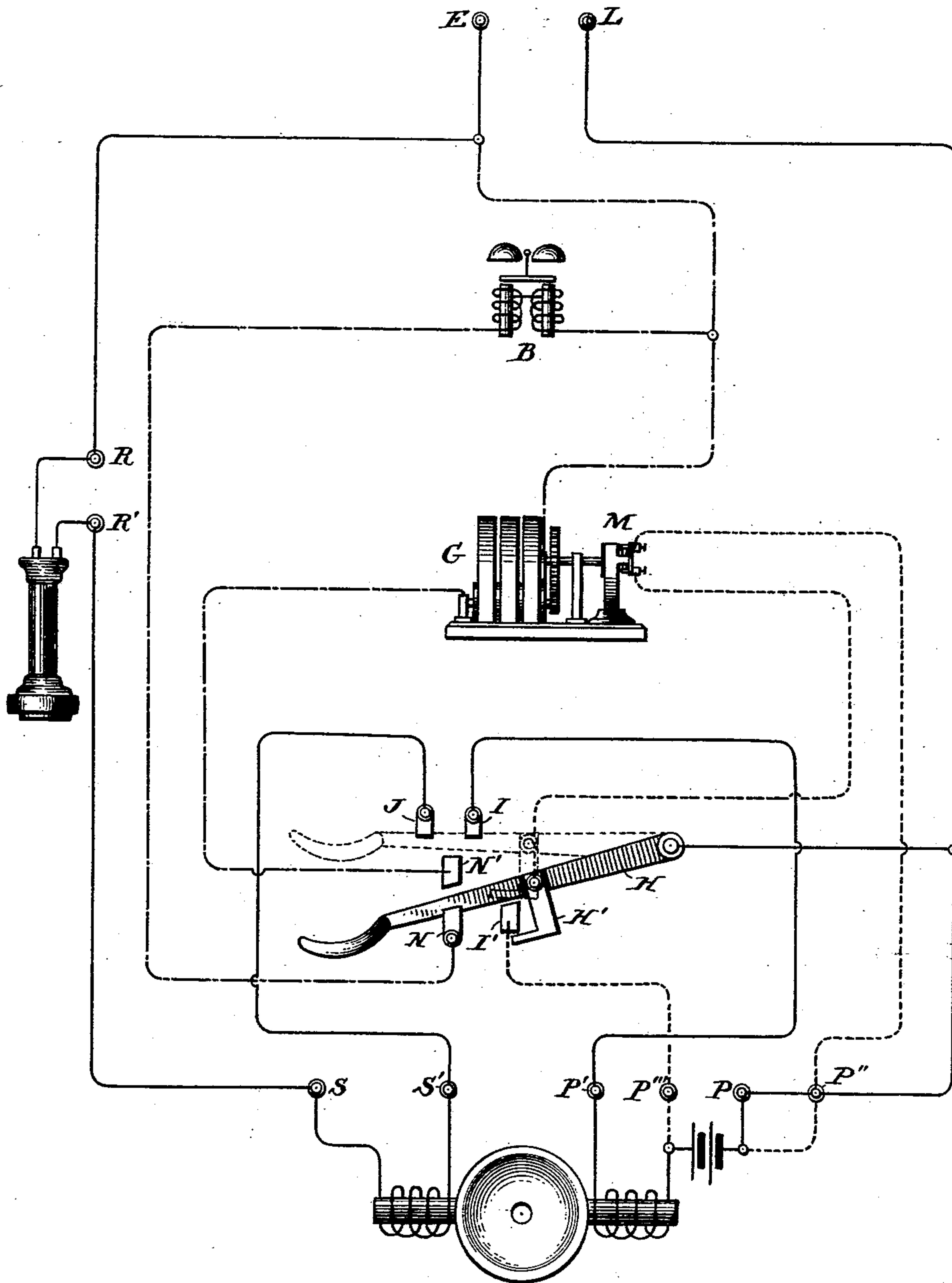


(No Model.)

M. DU PEROW.
ELECTRIC SIGNALING APPARATUS.

No. 563,025.

Patented June 30, 1896.



Witnesses
Geo. G. Hinkel
W. B. Gerry

Inventor
Mortimer Du Perow
by *D. A. The Knight*,
Attorney

UNITED STATES PATENT OFFICE.

MORTIMER DU PEROW, OF WASHINGTON, DISTRICT OF COLUMBIA.

ELECTRIC SIGNALING APPARATUS.

SPECIFICATION forming part of Letters Patent No. 563,025, dated June 30, 1896.

Application filed August 3, 1895. Serial No. 558,138. (No model.)

To all whom it may concern:

Be it known that I, MORTIMER DU PEROW, a citizen of Canada, residing at Washington, in the District of Columbia, have invented certain new and useful Improvements in Electric Signaling Apparatus; 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 drawing, and to the letters of reference marked thereon, which forms a part of this specification.

My invention relates to an electric generator for telephone or other signaling purposes, and consists, primarily, in the use of an electric motor, actuated by the local battery of a telephone and automatically set in motion by the switch-hook, for operating the electric generator.

In the drawing, which illustrates one form of my invention as used for telephone purposes, B is the signal-bell, G the ordinary magneto-generator, and M the electric motor, having its armature connected by shafting to the driving-wheel of the magneto-generator.

I and J are respectively the contacts in the customary local and speaking circuits. (Shown by the solid lines.)

N and N' are respectively the contacts for the signal-receiving and signal-transmitting circuits. (Shown by the dash-and-dot lines.)

I' is the contact for the electric-motor circuit, (shown by the dotted lines,) which connects I' and H' through terminal P''', the local battery, terminal P'', and the two terminals of the electric motor.

H is the ordinary telephone switch-hook for closing the speaking and signaling circuits.

H' is a special switch for closing the electric-motor circuit and is here shown as attached to but insulated from switch-hook H, and adapted to brush over contact I' in the upward and downward movement of the switch-hook, but so constructed that it is not in contact with I' when the switch-hook is in contact with the signal-receiving or the speaking contact-points N, J, and I. As illustrated, when H' is brushing over I', H is also brushing over N', and therefore at the instant that the generator-actuating motor M is set in motion the signal-transmitting circuit is closed through contact N', magneto-generator G,

terminal E, the earth, the signaling device at the other station, the line-wire, terminal L, and switch-hook H.

I do not confine myself to any of the forms or relations of the parts shown in the drawing. For example, the driving mechanism of the armature of the electric generator might be attached to the electric motor, or otherwise modified. The electric generator might be other than a magneto-electric generator, and the motor-circuit switch might not be attached to a telephone-support. The signal-receiving and signal-transmitting circuits might be merged in one, and pass through both the generator and bell from the contact N in the well-known manner. In this latter case, contact N' would be dispensed with, and contact N would be extended upward to about where the top of N' now appears.

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

1. The magneto-generator, the electric motor, the connecting driving mechanism, the broken motor-circuit, the switch for closing said circuit, and the telephone switch-hook for actuating said switch, in combination with the telephone signaling and speaking circuit, substantially as described.

2. The magneto-generator, the electric motor, the connecting driving mechanism, the broken motor-circuit through the local battery of a telephone, and a switch for closing said circuit, in combination with the telephone signaling and speaking circuits, substantially as described.

3. An open telephone speaking-circuit having in it a telephone and an open signal-transmitting circuit having in it a signaling device in combination with an electric motor, mechanism connecting the signal-transmitting device and motor, a source of electricity common to the motor and speaking circuits, and a switch or switches for closing said circuits, substantially as described.

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

MORTIMER DU PEROW.

Witnesses:

EWELL A. DICK,
M. B. GERRY.