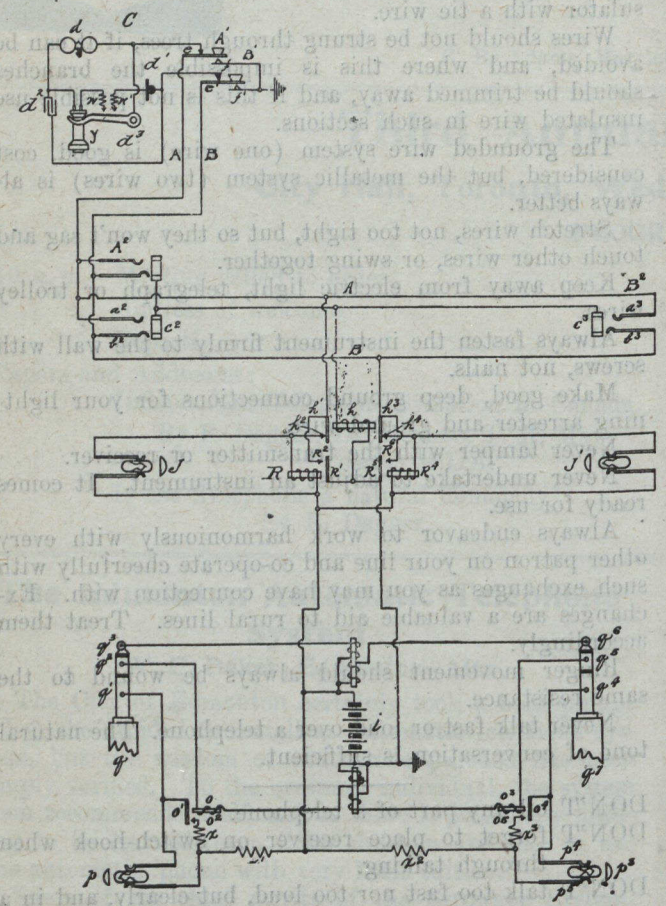
ABSTRACT OF TELEPHONE PATENTS

Granted in the United States during last month, prepared for *The Canadian Municipal Journal* by Edward E. Clement, Telephone Patent Expert, Washington, D.C.

Sender for Selective Systems. — Agrell. — This is a sending device for automatic systems, having a selecting switch set to the number wanted, and an impulse switch connected with the receiver hook. Unassigned. — 927,469.



Telephone Divided Multiple Switchboard System. — Aitkin. — Push button switches at the substation light different line lamps in different divisions of the board selectively, so the calling subscriber can select the division in which the wanted line has a multiple jack. In the drawing, C indicates the subscriber's station, A, B, the line wires, A^2, B^2 the jacks in different divisions, J, J' the calling lamps, R, R^4 the line relays, in the main battery, and q, q^7 the operator's plugs. Unassigned. — 927,470.

Transmitter Mouthpiece. — Dean. — This is a sheet steel mouthpiece, covered with enamel. Assigned to The Dean Electric Co. of Elyria, Ohio. — 927,643.

Selective Telephone System. — Guyle. — This is a clockwork, time element, lockout, party line selective system, having a time wheel and disk at each station, and means for setting and restoring all the mechanisms simultaneously. Cutting in is prevented for a predetermined time after connection is established. Unassigned. — 927,651.

Operator's Key. — Manson. — This is a combined listening and ringing key with dummy actuating springs engaging the lever instead of the contact springs, which are worked by the dummies, thus avoiding several troubles heretofore occurring. Assigned to The Dean Electric Co., of Elyria, Ohio. — 927,664.

Selective Ringing and Talking Device. — Lisler & Smiley. — This is another step by step party line lock-out selective system, with only specific construction claimed. Unassigned. — 927,816.

Hygienic Attachment for Telephone Transmitters. — Smith. — A paper cone with closed end held on the mouthpiece by a frame. Unassigned. — 927,817.

Microphone. — Angelini. — Improved "corn-plaster" granular transmitter with bridge and back screw. Unassigned. — 928,096.

Telephone System. — Baumer. — Automatic branch exchange switching system with special arrangement of relays, etc. Unassigned. — 928,171.

Electrically Controlled Meter System. — Clausen. — A register described and shown at a substation of an automatic system. Has a manual tally device, and controlling circuits, so the subscriber is forced to record each call. Unassigned. — 928,245.

Sanitary Guard for Telephones. — Florsheim. — Collapsible rubber liner for the mouthpiece, to be carried in the pocket. Unassigned. — 928,373.

Sound Producing Instrument. — Gottschalk. — Flexible cup covering inner end of mouthpiece and bottomed against the diaphragm. Unassigned. — 928,651.

Telephone Cabinet. — Larsson. — Sheet metal backboard and battery box, complete. Unassigned. — 928,989.

Telephone Stand. — Schafer. — A jointed receiver holder is clamped to the desk standard. Unassigned. — 929,025.

Telephone Attachment. — Detrick. — A bent wire holder is fastened to the desk standard in this case. Unassigned.— 929,404.

Service Meter System. — Reid. — A service meter with differentially wound magnet, part of the windings being shunted to register. Assigned to Kellogg Switchboard & Supply Co., of Chicago. — 929,708.

Resistance Cup. — Gottschalk. — Subdivided granular resistance button, with flexible partitions, to prevent packing, fraying, etc. Unassigned. — 928,652.

Telephone System. — May. — Subdivided system with automatic selector switches forming terminals of trunk lines from central to subcenters, the same switches controllable by both operators and calling subscribers. Unassigned. — 928,680.

Telephonic Apparatus. — Graham. — Complete marine outfit, with carefully designed waterproof parts throughout. The patent has 11 sheets of drawings and 10 pages of text. Assigned one-half to Alfred Graham & Co., Brockley, England. — 928,862.

Telephone Exchange System. — Webster. — A common battery system with single relay first closing and then opening the supervisory lamp circuit as it is energized by a rising current. Assigned to Milo G. Kellogg, of Chicago. — 930,512.

Telephone Exchange System. — Webster. — A similar system with a polarized differentially wound relay controlling each supervisory lamp. Assigned to Milo G. Kellogg, of Chicago. — 930,513.

Telephone Exchange System. — Webster. — A similar system with a neutral differentially wound relay for each lamp. Assigned to Milo G. Kellogg, of Chicago, Ill. — 930,514.

Telephone Exchange System. — Webster. — A similar system with differences of detail. Assigned to Milo G. Kellogg, of Chicago. — 930,515.

Telephone System. — Webster. — Common battery two-wire system with shunting control for line and supervisory relays. Assigned to Milo G. Kellogg, of Chicago. — 930,516.

Telephone Exchange. — Webster. — Two-wire system with improvements in details of relay control. Assigned to Milo G. Kellogg, of Chicago. — 930,517.

Telephone System. — Webster. — Two-wire system using supervisory lamps with direct control and no relays in cords. Assigned to Milo G. Kellogg, of Chicago. — 930,518.

Telephone Exchange System. — Webster. — Differential line relay in a similar system, with means to balance current in both windings when line is connected. Assigned to Milo G. Kellogg, of Chicago. — 930,519.

Telephone System. — Webster. — A similar system with a differential cut off relay for each line, having a twin winding to kill impedance in the talking circuit. Assigned to Milo G. Kellogg, of Chicago. — 930,520.

Telephone Exchange System. — Webster. — Cord circuit testing device automatically cut off when plugs are both in, and a signal showing the disconnection. Assigned to Milo G. Kellogg, of Chicago. — 930,521.

Apparatus for Measured Service. — Hulfish. — A service meter associated with and operated through a trunk selecting switch in a semi-automatic system. Assigned to American Telephone & Telegraph Co., of New York. — 930,547.

Telephone Repeater. — Gilson. — A rotary dynamo magnifier, strengthening talking current as it passes. Unassigned. — 930,854.