STROWGER PROGRESS

History and Development of the Strowger Automatic Telephone System

Almon B. Strowger invents switch having line contacts in circular rows inside a cylinder. Controlled by push buttons on telephone.

1000 line switch with disc bank having ten concentric having ten concentric rows of line contacts. Not used commercially. formation of Strowger Automatic Télephone Exchange



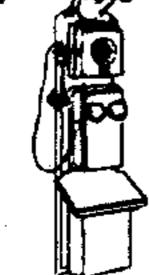
1892 First commercial Strowger installation. La Porte, Ind. Used switches with 100-line disc type banks.

1894 Invention of gear-driven switch with invention of gear-'zither" (piano wire) line banks. Not used commercially.

200 line "zither" board with ratchet drive installed at La Porte, Ind.

1895 Third installation at La Porte Earliest at La Porte. Earliest use of switch with semi cylindrical bank and shaft with vertical and rotary motions. Invention of earliest dial type calling device

1896 Invention of selector trunking; first use of dial telephones in large exchange. (Augusta, Ga.)



1898 Earliest use of relays for switch control, instead of direct operation of 'magnets, over line wires. First die cast switch frame.

Strowger

Automatic goes abroad (Berlin, Germany). Earliest use of automatic trunk selection, with busy test.

900 Basic trunking principles established for large exchangesused at New Bedford, Mass. Bank terminals molded in plaster of paris.

90 Formation of Automatic
Electric

Company to take over Strowger Automatic Telephone MEHHELEL MITT Exchange.

Installation at Fall River, Mass., used line banks with fiber insulators and aluminum fillers. First use of 'slip multiple."

First installation in Chicago begun. Earliest use of measured sérvice in automatic exchanges

1903 Large Strowger installations placed in service in Grand Rapids, Dayton, Akron, Columbus.



1904 First use office trunking, and connections between automatic and manual offices. (Los Angeles, Cal.)

Earliest extended use of party lines and reverting calls First system using common battery talking. (South Bend, Ind.)



1906 Invention of Keith Line Switch, resulting in enormous reduction in cost of automatic boards. First used at Wilmington, Del.

First installation in Canada (Edmonton, Alta.) Invention of small dial and two-wire system eliminating ground at subscriber's station.

First two-wire system (large dial) installed at Pontiac III Earliest use of automatic, intermittent ringing. installation at Lansing, Mich. features use of small dial, secondary line switch, and 200-pt. selectors and connectors.

invention of outgoing secondary line switch, resulting in economy of inter-office trunks. First used at San Francisco.

Strowger introduced in Hawaii and Cuba. Earliest use of dialing over toll lines. Introduction of revertive ringing tone.

Formation of Automatic Telephone Manufacturing Co., Ltd., for production of Strowger system in England.

First Strowger installation in England. (Epsom "Official Switch")

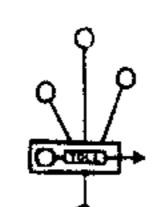
Strowger system introduced in Australia and New Zealand. Development of key type impulse AUSTRALIA sender, and Simplex on toll lines.

Automatic Switches used as traffic distributors in manual exchanges. (Indianapolis and Defiance, Ohio)

1915 Development of modern covered switch with horizontal relays used at St. Paul and Minneapolis. First use of cast iron switch frame at Hazelton, Pa.



Earliest 96 Earliest community automatic exchange network, installed in Wisconsin.



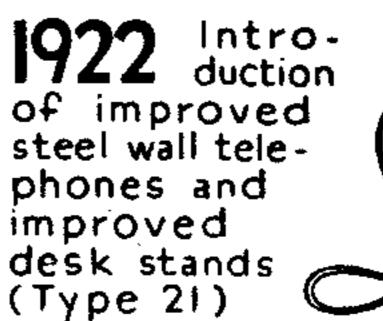
97 Rapid expansion in the use of private automatic branch exchanges. Development of remote alarm equipment for unattended exchanges.

First installation using rotary primary line switches. (Elyria, Ohio)



First Strowger board manufactured for Bell system. (Norfolk, Va.)

1070 Beginning of widespread adoption of Strowger equipment for metropolitan areas both in U.S. and abroad. First installation of call-indicator equipment for automatic-manual connections in multi-office



areas.



1923 British Post Office announces adoption of Strowger system (with Director) for London.

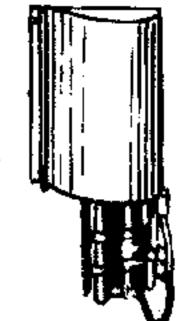
Strowger \ _____ exchanges out Canal Zone. First Strowger 'Directors" installed at Havana.

Introduction of the Monophone first hand set telephone of modern type...

1926 Introduction of the Type 24 Dial modern, quietrunning, long life calling device. Strowger system adopted by Japan.

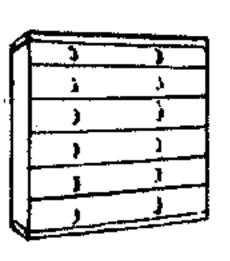
First "Director" installation in London. Introduction of line switch with self aligning plunger.

First extended use of Strowger 200-point Line Finder. Introduction of improved Monophone designs.



U.S. Navy begins use of Strowger equipment. Monophones made available in color.

Development of new small switchboards of unit type. Networks of small Strowger exchanges installed in Italy



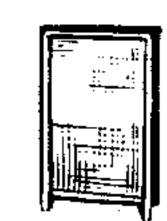
at Elyria,

Development of Strowger Remote Toll Board First installed



Ohio. Development of unattended private automatic branch exchanges. Two

New small private automatic exchanges introduced.

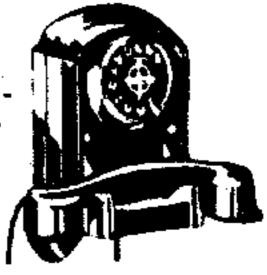


line Monophones

introduced.

Introduction of new self-contained desk Monophone molded in bakelite. (Type 34A3)

New positions" transmitter. New bakelite wall Monophone (Type 35A5)



Small, compact community automatic exchanges introduced.