

Michigan Bell Telephone Co. Serves 540,000 Telephones

At present the Michigan Bell Telephone company serves approximately 540,000 telephones according to recent announcement. In addition, 269 local connecting companies that connect with the Bell lines, serve 129,000 stations all of which can be reached from any Bell telephone, a total of 669,000 telephones for the state.

Michigan Bell exchanges of more than 1,000 telephones each, which telephone calls in Michigan total approximately 3,000,000 of which 1,300,000 are made each 24 hours in Detroit exchange.

Something of the enormity of the telephone company's task can be sensed from the estimate that to make the expected net gain of telephones in this state the coming year it will be necessary to make 140,000 connections of 140,000, besides approximately 99,000 disconnections.

In addition, change of addresses will be made by upwards of 63,000 of the company's customers, each change involving a disconnect and a new connection. Gain of 40,000 telephones the past year was divided into 31,000 residential and 9,000 business tele-
phones.

It is estimated that at the close of the past year, 109,000 of the company's 540,000 telephones were operated on a dial basis. There now are 161 telephones in Michigan per 100 inhabitants, an increase from 12.7 in 1920. The figure is expected to grow to 20.8 by the end of 1931, or more than 1,000 telephones for each five hundred women and children in the state.

It is expected that the 1927 toll program of the Michigan Bell will be 50 per cent larger than the 1926 program. Toll cable and toll line construction in the state are expected to cost \$3,395,000 the coming year and to aggregate \$18,000,000 between now and the end of 1931.

Some of the larger toll cable projects scheduled for 1927 are: Detroit-Ann Arbor, \$153,000; Detroit-Pontiac, \$184,000; Detroit-T Toledo, \$242,000; Wyandotte-Trenton, \$41,000; Detroit-Northville, \$40,000; Kalamazoo-Grand Rapids, \$298,000; Niles-

Kalamazoo, \$322,000; Ann Arbor-Jackson, \$448,000; Flint-Saginaw, \$372,000; Grand Rapids-Lansing, \$70,000; Orr-Junction-Port Huron, \$35,000; Port Huron-Bad Axe, \$35,000; Saginaw-Grand Rapids, \$200,000; additional toll circuits outside of cable, \$755,000; pole work, \$372,000. \$1,700,000 estimated for the five-year period.

Late in 1927, the Detroit-Ann Arbor cable will be extended as far as Jackson and will go on to Lansing in 1928, probably reaching Kalamazoo by 1930, on its way across the state.

Building of a second Pontiac-Detroit toll cable, underground most of the way, is one of the most important construction projects of the 1927 telephone program. Detroit and nearby cities have much in common industrially and socially, a condition which the rapidly expanding telephone facilities have helped greatly to foster. Early in the year it is planned to push the Detroit-Pontiac-Flint cable on from its present northernmost point, Mt. Morris, Saginaw. It is expected to reach Bay City before the end of the year. The proposed Detroit-Toledo cable will connect the two cities and, like the first, will connect with the New York-Chicago long distance cable.

More New Cables

Between now and 1931 other new cables will be built to connect Grand Rapids with Grand Haven, Benton Harbor with Coloma, Coloma with South Haven, Wyandotte with Trenton, Lansing with Owosso, Owosso with Flint, Niles with Kalamazoo and Kalamazoo with Grand Rapids.

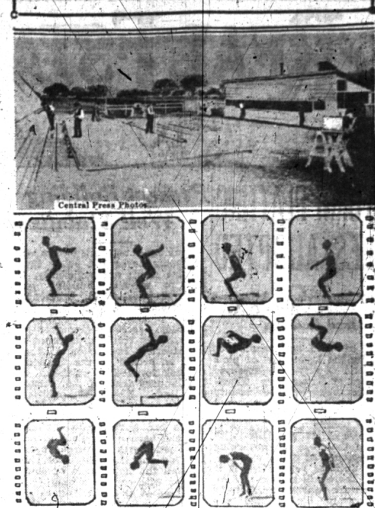
"Roosting the toll and long distance lines through cable means not only almost complete protection against storm damage and interference with the lines, but also the placing of a large international submarine cable linking Windsor and Detroit. This cable will be the largest of its kind connecting the United States and Canada at this point and will contain upwards of 4,000 miles of copper wire. The Ann Arbor-Jackson cable will carry 80,000,000 feet of wire, that from Detroit to Ann Arbor will contain 31,000,000 feet, the Saginaw-Bay City cable will have 30,000,000 feet and that from Mt. Morris to Saginaw will contain 55,000,000 feet.

Additional open wire toll circuits will be placed the coming year between Ann Arbor and Kalamazoo, Lansing and Grand Rapids, Kalamazoo and Benton Harbor, Jackson and Hudson, Bay City and Alpena, Port Huron and Bad Axe, Fort Huron and Flint, Mt. Clemens and Emmet Junction, Pontiac and Mackinaw City, Marquette and Houghton and Mequignone and Marquette.

To telephone people, the rapidly increasing use of the long distance wires indicates a change in modern business methods. The company's records show an increasing use of toll circuits for sales campaigns, marketing goods, buying and dispatching trains, handling salesmen on the road, etc.

The Michigan Bell during 1926 extended its toll service educational work for the assistance of business people, to promote the speedier and more economical use of long distance. Such part of the toll lines expanded greatly during the year. For instance, exclusively Detroit-Ann Arbor circuits were increased from 17 to 55, and there was heavy growth of the use of the toll circuits of all Michigan College towns by students and their friends and families.

Bet Over Horse Brought First Movies



Origin of what are believed to be the first motion pictures in America have become known. Senator Leland Stanford of California thought that a horse in running, at some stage of the cycle, had all four feet lifted from the ground. He bet \$25,000 on it. Instantaneous photography was suggested by a French professor. The senator had 12 cameras placed 21 inches apart in a building adjacent to the race track. Each camera had a double shutter released by a magnetic circuit released, each in turn, by pins turning on a music box cylinder, forming a camera. This proved unsound. The senator, therefore, had strings stretched across the track, the horse breaking the strings and snapping the cameras. That was in 1877—49 years ago!

The senator won his bet. Top view shows the experimental track, with strings being stretched across it. Bottom view: Athlete doing back somersaults in what is described as the first motion picture of a human being!

By Central Press
Palo Alto, Calif., Dec. 30.—You folks who sit in comfortable seats and think the moving picture you watch is a modern invention are 49 years behind the times. This has been disclosed by facts just come to light.

What is believed to be the first motion picture was made on a race track two miles from here in 1877 and 1878, to settle a wager. Senator Leland Stanford, founder of the university bearing his name, believed that a horse in running at some stage of the cycle had all four feet lifted from the ground. He bet \$25,000 on the proposition, and from that the first movie resulted.

Instantaneous photography had been suggested to him by Professor Marey of the College de France, who was studying the flight of birds. Prior to Senator Stanford's experiments, only inadequate methods had existed for the study of bodies in motion. Manifestly, the eye, unaided, could not appreciate the difference in time in which the feet of a galloping horse struck the ground.

"Way Back in 1877"
The senator induced a photog-

rapher to come here and in 1877 some single pictures of "Occident" while in motion were taken. One of these showed the horse with all feet from the ground, and by that the senator won the wager, but he did not stop here.

"If one picture can be taken instantaneously," he asked, "why not an indefinite number, and by increasing the number of cameras increase the number of views and thus illustrate various positions of an entire stride?"

Accordingly he had workmen place 12 cameras in a building adjacent to the race track, at 21-inch intervals. Each camera had a double shutter, each being so arranged that a magnetic circuit would release it and an India rubber spring with a lifting power of 100 pounds would "snap" the camera.

To insure the photographic plates being exposed at proper intervals a machine was constructed on the principle of a Swiss music box, having a cylinder with a row of 12 pins arranged spirally. This was put in motion by a spring and as it revolved, each pin in succession established a magnetic circuit, with the magnet connected with each of the 12 cameras in succession, and the series of exposures were made in the time occupied by a single complete stride of the horse.

This was the first motion picture made, and on American soil. Precisely this scheme proved unsound, however, for it proved impossible to have the horse before each camera at the precise moment of exposure. Senator Stanford evolved from this, then, a scheme whereby the horse in passing broke with its chest a series of strings, each on being drawn fast snapping a camera.

He applied these results to human figures and the first motion picture of a human being, made by piecing together the exposures, shows an acrobat turning a somersault.

STATE OF MICHIGAN—In the Probate Court for the County of Oakland: A. J. STANFORD, dec'd. Executor of the Estate of Leland Stanford, late of the County of Oakland, in the State of Michigan, deceased.

In said Court, on the 4th day of January, A. D. 1927, the following and hereby submitted for hearing and settlement:

In the presence of said Probate Officer, to and is hereby submitted for hearing and settlement:

It is Further Ordered, that public notice thereof be given by publication of a copy of this order, for three consecutive weeks previous to said day of hearing, in the Birmingham Eccentric, a newspaper printed and circulated in said county, and allowed of 10 days before said day of hearing.

ROSS STOCKWELL, Clerk of Probate.
J. W. HENRY, County Register.

JOIN OUR CHRISTMAS CLUB



Many in our community were made happier by the great distribution of Christmas Club money this season.

For the accommodation of those who were unable to join earlier we are holding our Christmas Club open a little longer.

Come in NOW and join.

SAVE! SAVE REGULARLY! Save toward a definite goal. And when the time comes for you to carry out what you planned to do, YOU'LL DO IT. SAVE! SAVE REGULARLY. And save at this bank where the service is friendly. Start the year right by opening

A Christmas Club Account
"The Year's Best Resolution"

Increasing Club Plan		
1c Club	Deposit 1c 1st week, 2c 2nd week. Increase 1c each week—in 50 weeks you have.....	\$ 12.75
2c Club	Deposit 2c 1st week, 4c 2nd week. Increase 2c each week—in 50 weeks you have.....	25.50
5c Club	Deposit 5c 1st week, 10c 2nd week. Increase 5c each week—in 50 weeks you have.....	63.75
10c Club	Deposit 10c 1st week, 20c 2nd week. Increase 10c each week—in 50 weeks you have.....	127.50

Decreasing Club Plan
You begin with the Largest payment and Decrease each week.

Even Amount Club Plan		
25c Club	Deposit 25c each week—in 60 weeks you have.....	\$ 12.50
50c Club	Deposit 50c each week—in 60 weeks you have.....	25.00
\$1 Club	Deposit \$1 each week—in 60 weeks you have.....	50.00
\$2 Club	Deposit \$2 each week—in 60 weeks you have.....	100.00
\$5 Club	Deposit \$5 each week—in 60 weeks you have.....	250.00
\$10 Club	Deposit \$10 each week—in 60 weeks you have.....	500.00
\$20 Club	Deposit \$20 each week—in 60 weeks you have.....	1,000.00
\$50 Club	Deposit \$50 each week—in 60 weeks you have.....	2,500.00
\$100 Club	Deposit \$100 each week—in 60 weeks you have.....	5,000.00

Provide for next year by coming in now and joining our Club. A little each week is all that is necessary.

WE PAY 4% ON ALL CHRISTMAS CLUB ACCOUNTS

First State Savings Bank
BIRMINGHAM, MICHIGAN

PRESTIGE

Painstaking attention to every detail has made Ralston Smart Shoes for Men Nationally known for their quality and style. Well dressed men everywhere wear them.

Williams' Boot Shop
121 West Maple Phone 117

Turn Wash-day into Wash-hour

ENJOY 60 minutes while the Maytag does a whole week's washing—50 pounds of clothes (dry weight)! When it washes everything—even collars, cuffs and wristbands—without hand-rubbing.

When you are not heating the water because the Maytag cast-aluminum tub keeps water hot for an entire washing—keeps water clean because of the sediment trap beneath the bottom of the tub. When the Maytag automatically cleans its tub in 30 seconds after the washing is done.

Try the Maytag. Use it at home next washday. Do a week's washing without obligation or expense. Phone any Maytag dealer. He will gladly send a Maytag—if it doesn't sell itself, don't keep it.

Maytag Aluminum Washer
Hawthorne Electric Co.
214 W. Maple Ave. Phone 299

Maytag dealers everywhere follow the standardized rule of sending a Maytag to a home to do a week's washing free, and without obligation of any kind. This is the way all Maytag Gyrofoam Washers are sold.

There is no place like home—and there are many places in the home for electric appliances.

Your cooking, cleaning, refrigerating, beautifying problems require electric servants—servants willing, economical, and undefatigable.

Shopping in convenient Saturday afternoons—our offices are open 8 to 5 every week day.

THE DETROIT EDISON COMPANY

SAVE WITH SAFETY

The Rexall Hair Shampoo Paste

AN IDEAL TREATMENT FOR YOUR HAIR

First: Shampoo the hair thoroughly with REXALL "93" Shampoo Paste

This paste is a semi-solid, semi-transparent, delightful to use.

Second: Apply REXALL "93" Hair Tonic

The tonic is easy to apply, not sticky or messy.

SHAIN'S
The Rexall Store
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