

EIGHT TELEGRAMS SENT ON ONE WIRE

The Multiplex Machine is on Exhibition in Salem; a Very Fine Address

C. E. Newson, connected with the general offices of the Western Union Telegraph company in New York City, talked to the Salem Lions club at their noon luncheon on Friday. He displayed and explained a multiplex machine, one of the most wonderful contrivances used in commerce, which allows of transmission over one wire of eight messages at one time—requiring the services of sixteen operators, eight at each end.

This machine is now at the office of the Western Union Telegraph company in Salem, and will be on display there until Tuesday.

The address of Mr. Newson was so interesting that it is believed many readers will be glad to have it in full, so it is printed, as follows:

Did you ever stop to think that it took almost 400 years following the discovery of America for civilization to reach very far beyond the Mississippi river? And yet within the last seventy-five years the territory west of that river has been made to bloom like a rose. Great cities and great enterprises have sprung up. Its products find a world wide market. Its commerce flows in all directions and to the whole world. It has become not only the garden spot of the world, but it has become a very important section necessary to the balance of the world. How has this been brought about?

McCauley says: "Of all the inventions, the alphabet and the printing press alone, excepted, those which abridge distance have done the most for civilization."

There are two important and necessary facilities which makes it possible for any people and any section of the world to make such wonderful progress and strides, and these two are transportation and communication. An interesting speech could be made upon that which has happened since the invention of the means of recording speech and the conveying of thought to others, but I will devote myself today to but one phase of the subject. No country on the

face of the globe has been so favored as has our own country with respect to transportation and communication; the lack of which has impeded the progress of continental Europe and countries of the Far East. Communication and transportation go hand in hand with the advance of civilization and education. As an illumination, Iris said: "A tramp walking the ties of the railways of China at the rate of 25 miles a day would be able to complete the job in less than ten months. Were he to undertake the job in America, it would take him 30 years, without a holiday."

While the United States is preparing for the continental anniversary of the laying of its first rail, Szechuen, the Texas of China, has yet to lay its first rail. The number of telegraph offices in China is as limited as its miles of railroad. There are not over 1200 offices in all of China.

Is Natural Outcome
Those who dream of a League of Nations, or a welding into some sort of a league of the nations of the earth, are, in my opinion, not idle dreamers. It is a natural outcome of a closer contact of nations. The breaking down of barriers. The annihilation of distance. The annihilation of

distance and the bringing together of the peoples of the earth had its beginning when Prof. Morse gave to the world his electric telegraph and opened that first crude line between Washington and Baltimore on May 24, 1844, with that first message: "What hath God

We'd like to see him do it!
Interesting Small Beginnings.

It is not necessary for me to go into details regarding the efforts of Morse, his disappointments and discouragements. All this is common history. It may, however, be amusing to know something regarding the operation of that first line and something regarding the revenues as compared with those of today. From April 1st, to 4th, the cash receipts were 1c. This magnificent sum was received from a United States senator. Congress had fixed tolls to be charged at a rate of a half cent for each character to be transmitted. The senator desired to view the telegraph in actual operation, and as usual with those impressed with the importance of their position, he desired to be shown without cost. This the operator refused to do, saying that it would be a violation of his oath to the government. The senator had nothing less than a twenty dollar bill, other than a copper cent. The operator con-

sented to send the figure 4, which was the signal for inquiring for correct time. It then being one o'clock in Baltimore the figure "1" was returned and the operator debited his account with receipts of one cent. On April fifth the receipts were 12½ cents; on the seventh day they totaled 50 cents and on the eighth day they ran up to \$1.32. This is in remarkable contrast with the receipts of the Western Union which

TINY GLAND MAKES MEN GET UP NIGHTS

Do you know that a very high percentage of all men of mature years are troubled with disorders of a little gland—the prostate. When this vital gland begins to show up many ailments arise, such as pains in the back and legs, frequent urination, general debility, weakness and dizziness, painful, smarting, difficult micturition, and lack of control. But at last, there is a treatment for this gland that has brought relief to thousands. This treatment is perfectly harmless, and so marvelous have been its results that for a short time it is being offered absolutely free to convince people of its amazing efficiency. **ABSOLUTELY FREE.** You send your name and address and 10c to help pay the postage and packing and you will get by return mail a Full Sized Sample Package. But act at once as this offer is made for a short time only. Write today to **PALMO LABORATORIES, Dept. 284-B, Battle Creek, Mich.—Adv.**

were approximately \$120,000,000 for last year.

Enormous Growth
From that humble beginning the telegraph has developed into a great network of poles and wires whose slender threads of iron and copper reach into the uttermost parts of the earth binding the north and south, the east and west into communication almost supernatural. Out of this has grown a wonderful organization whose growth is vividly traced in this great country of ours. I speak of the Western Union, the greatest telegraph system in the world. Today the Western Union has over 1,600,000 miles of wire and 215,000 miles of pole line connecting approximately 26,000 offices in hamlets, villages and cities throughout the United States, and furnishes a communication service so universal as to be comparable with that of the federal postoffice. The Western Union conducts this national telegraph system and supplies over 85 per cent of the telegraph service in the United States. The company employs over 60,000 people and annually handles millions of messages. Its eight transatlantic ocean cables of 26,000 miles further connect our 26,000 offices with 300,000 miles of cable encircling the globe and reaching

to all continents. A comparison of rates in effect between the Pacific coast and the east during the pioneer days of the telegraph with present rates is quite interesting. Up to 1865 the charge for 10 words between coast and coast was \$7.50; in 1866 it was \$5.00; in 1867 \$2.50. The present rate for fast commercial day service is \$1.20 per 10 words and 60c for a night message of 50 words. A night letter of 50 words costs the same as a 10-word day message.

Wonderful Improvements
Through the efforts of our engineers that first type of instrument which laboriously recorded that memorable message gave place to a highly efficient Morse equipment, but even that apparatus has been outdistanced in the rapid progress of telegraph evolution by the multiplex, the latest development. This apparatus is now standard equipment for the handling of transcontinental and trunk line traffic. The development of this apparatus and other operating methods have greatly increased the capacity of the wire plant, and it has therefore been unnecessary to add wire mileage proportionately with the expansion of traffic. This multiplex or automatic system of telegraphy per-

mits of simultaneously transmitting over one wire four messages in each direction. Today every large city is connected with other large centers by this automatic system of telegraphy. If you were

COLDS

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Take two tablets every three hours until three doses are taken. The first dose always gives relief. The second and third doses completely break up the cold. Pleasant and safe to take. Contains no opium or opiates. Millions use "Pape's Cold Compound." Price, thirty-five cents. Drugists guarantee it.—Adv.



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The Pony Express rides the trail of thrills again!
Pony hoofs thunder across the continent from Missouri to California, and East and West are linked again as they were in 1860.
Across 2,000 miles of unblazed tract. Through scorching sun and black of night. Through ice and snow and raiding Indians. Eight days and nights of perilous riding and unmatched heroism.
From this thrilling page of history, the screen's greatest director of epic romances has wrought his successor to "The Covered Wagon."
Not for a day, not for a year—like "The Covered Wagon" it will live in the heart of America forever!

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Admission:	
Balcony	35c
Lower Floor	50c
Children, Sunday	20c
Children Week Day	10c

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Sunday Shows Start
2:15 p. m.
4:30 p. m.
6:45 p. m.
9:00 p. m.