Five Telephone Conversations Over One Circuit Now Possible

made to carry five telephone conver- ed the large staff of engineers whose sations over the same circuit of two work made the multiplex telephone telephone wires, without interfering system a reality, in commenting rewith each other, is an electrical cently on the new invention said: achievement difficult for the mind of the average man or woman, not the multiplex telephone and televersed in the intricacies of electrical graph system reads like that of many engineering, to comprehend. Yet other inventions. It is a story of the invention of the multiplex tele- long years of effort to accomplish a phone system, recently announced great result. The steam turbine Telephone System in a letter to Post- ed to be practically useful and yet master General A. S. Burleson, has was suggested in principle as long made this electrical phenomenon a ago as 130 B. C. Dr. Alexander

The only difficulty which now of the telephone multiplex is the ex- still working on that device, he concessive cost of the equipment. The highly technical equipment required is so costly that it is economically Bell made those experiments, available only for long distance lines and for those only between points at least 100 miles apart.

engineer of the American Telephone

THOSE SHOE BILLS! KEEP THEM DOWN

Mr. John Held, merchant, of Salt Lake City, keeps an exact record of the shoes he wears. He writes, "Two pairs of Neolin Soles have worn for me 19 months and I am on my feet ninety per cent of the time.

This is not an extraordinary example of the money-saving service that people get from Neolin Seles. It is typical of the experience millions are having. These soles do wear a very long time and so help you keep shoe bills down. They are scientifically made so they must wear.

Get Neolin-soled shoes at almost any good shoe store. Get them for your whole family in the styles you prefer. And have these cost-saving soles put on your worn shoes. They are very comfortable and waterproof as well as durable. They are made by The Goodyear Tire & Rubber Company. Alcron, Chio, who also make Wing set Heels, guaranteed to outwear any other heels.

Neolin Soles

over with you.

How telephone equipment can be and Telegraph Company, who head-

"The story of the development of by President T. N. Vail of the Bell for example, is but recently develop-Graham Bell was experimenting to produce a multiplex selegraph stands in the way of the general use 1872 and three years later, while

ceived of the telephone. "Now, forty-six years after mukiplex telephone and telegraph has become a reality. The system is the product of no one man's efforts Bancroft Gherardi, acting chief but rather the result of the cumulative efforts of several hundred mem bers of the Bell Telephone System's engineering staff, covering a period of years. It is one of the greatest single contributions to the science of telephony since that science was born in a Boston attie in 1875."-

The possibilities of the telethe multiplex can b cemployed on any open wire telephone line, but is the most optimistic stimulant givpractically it is not advantageous to en the campaign for the improvement use it on any line less than 100 miles of our national highways," says W. in length. The highly technical O. Rutherford, vice president of the equipment required is so costly that B. F. Goodrich Rubber Co., and auto-

"We have one installation in serv- Hustries Association. ice, that on the Baltimore-Pitts- subject since the start of the way, eent demonstrations.

able to the telephone-using public, reeds is that its means of transporta-because a great amount of new apsiderable work must be done on the countryside roads. lines themselves to adapt them to i "Of almost equal moment is the facilities are required.

giving universal telephone service to amalgamated in order that the highthe people of this country. We have ways may rightly share the responsisought to make it possible for any-bilities and of transportation with the one to talk to anyone else in any railways and the waterways." other part of the country at any

"Now, with the multiplex system, we greatly enlarge the service ca-pacity of all long distance lines which economically may be equipped with the system. The three transcontinental circuits, for example, two of which are of wire while one is a phantom circuit, when equipped with the multiplex system can carry ten conversations at once instead of

three as at present. "The advantages of the system when applied to telegraphy as well as to telephony were clearly shown in our tests. We found that we can combine our system! with the printing telegraph so as to secure the full advantages of the multiplex system n reducing wire requirements.

'Using our multiplex system with the ordinary hand-operated telegraph astrument, connected-with a tele- II. phone circuit, we can send from 1500 to 1600 words a minute. When the capital, \$15,000; D. E. Trumbuil, multiplex system is connected with president; S. A. Walker, vice presithe printing telegraph, we can send from 4,000 to 5,000 words in 60 sec-

WILSON SEES NEED OF ROADS CONSTRUCTION

said Engineer Gherardi, hat highway construction and devel-'lie in the direction of expansion of opment is among the most important long distance service. Physically essentials to our peace reconstruction t is economically available for long mobile and accessories manufacturers' representative in the Highways

"It was his first committal on tais of demonstrations.

"It will be some time," said Mr. the movement were elated when he Gherardi, "before the larger bene, incorporated in his last message to fits of the system can be made avail- congress: 'What the country badly paratus must be installed and con- ts waterways, its highways and its

the new system. Our plans call for action taken at the recent highway installing the system at several convention in Chicago. The presi-points where additional long distance dent's viewpoint was emphasized and approved at a joint meeting of the "For years the Bell System engin- Highways Industries Associations, eers have worked to create a system | he State Highway Official's Associ ation, the Highways Transport Com mittee, the National Automobile Chamber of Commerce, the Ameri cin Automobile Association, and the I incoln and Dixie Highway Associa-Among the delegates were tions. highway officials from forty-four

> states. "National sentiment in favor of an adequate highway system was never more graphically brought to light than at the Chicago gathering. With perfect accord the convention resolved that the following main points should be embodied in a bill to be put before the present short term of congress for passage:

"1. That a Federal Highways Commission be appointed to plan. maintain and construct a national system of highways.

2. That the mileage of highways to be taken over in any given state should not amount to over 4 per cent of the total mileage of the roads of fint state.

3. That a thorough survey and analysis of the transportation requirements of the nation and its highway traffic should be compiled "4. That an appropriation should

be made by the federal government of \$100,000,000 per year for carry ing on this work.

5. That the Federal Highways Commission shall take over the work of the Highway Transport Committee and the Office of Public Roads of the Department of Agriculture.

This is the platform of the coordinated highway and business interests of the entire country. Its broad and vital aspects will help meet America's pledge to supply Europe with foodstuffs. It will furnish an inestimable national asset in the transportation of around 25,000,000 tons of grain, butter, eggs, stock and prepared food from farming communities and industrial centers to the seaports. Furthermore, this legislation will create a highway foundation for the future which will help broaden our vision in the development of na-

tional resources. "Our conception has been smallour interstate highway transportation has been cramped and handicapped by boundary lines. The stumbling block planted itself on the state line where, one state with different plans, appropriations and specifications halted their highway work perhaps the neighboring state was poor, or its policy was to improve the country lanes on a bigger scale than the big interstate laterals and meridjus. The vital road was incomplete -it contained bad stretches render-

ing it Inefficient. "Under the Federal Highways Commission groups of states will better understand each other's problems and government direction will Jurnish a stimulus that will be reflected and felt on down the line to the county and township road com-

missions. "Today only 11 per cent of our roads are improved. There are 2,-199,000 miles of roads in the United States, of which approximately only 350,000 miles are hard surfaced. It is estimated 50,000 miles may be placed in and maintained under the inproved classification each year un-Cer the newly proposed Federal

Highway's transportation facilities should be placed at the farmer's gate—at every farmer's gate, should encourage inter-city, intertown and inter-village traffic over the highways. By releasing railroad rolling stock from these short hauls concentrated food and other supplies may be shipped over longer distanc-Concerted and immediate action all the agencies affected should be

New Western Nebraska Banks Western Nebraska towns are to have new banks, with two of them starting in at Crawford, giving that town four. Sidney will probably have another one, although the char ter has not yet been granted. The state banking board granted the fotlowing charters on Eriday:

Crawford State bank, capital \$25, 000; J. L. Winter, president; A. L. Moyer, vice president; E. M. Warner, cashier.

Farmers Bank of Crawford, capltal \$25,000; T. L. Gorden, president; Peter L. Raben, vice president; F. Stapleton, secretary Farmers State bank of Bradish,

capital, \$10,000; George H. Gutru. president; R. J. Gutru, cashier. Bank of Bingham, capital \$15 -000; Charles Finegan, p *sident; C. Anderson, vice presid

Parmers State bank of Douglas, dent; John C. Farrell, ceshier Farmers State bank of Bruning

capital \$25,000; J. H. Casper, president; F. M. Mennenga, vice prestdent; F. R. Hoagland, cashier.

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SALTS IS FINE FOR KIDNEYS, QUIT MEAT

Flush the Kidneys at once when Back hurts or Bladder bothers-Mest forms uric acid.

No man or woman who eats ment regularly can make a mistake by flushing the kidneys occasionally, says a well-known authority. Meat forms uric acid which clogs the kidney pores so they sluggishly filter or strain only part of the waste and poisons from the blood, then you get sick. Nearly all rheumatism, headaches, liver trouble, nervousness, constipution, dizziness, sleeplessness, bladder disorders come from eluggish kid-

The moment you feel a dull ache in the kidneys or your back hurts; or if the urine is cloudy, offensive, full of sediment, irregular of passage or attended by a sensation of scalding, get about four ounces of Jad Salts from any reliable pharmacy and take a tablespoonful in a glass of water before breakfast for a few days and your kidneys will then act fine. This famous salts is made from the acid of grapes and lemon juice, com-bined with lithia and has been used for generations to flush clogged kidneys and stimulate them to activity, also to neu-tralize the acids in urine so it no longer causes irritation, thus ending bladder dis-

Jad Salts is inexpensive and cannot injure; makes a delightful effervescent lithia-water drink which all regular meat eaters should take now and then to keep the kidneys clean and the blood pure, thereby avoiding serious kidney complications.

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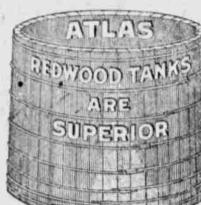




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