

Story Showing How the Latermetic Telephone Serves Its Users With Fidelity and Without Annoyance, Securing Accuracy and Secrecy at All Times and Insuring That Only the Person Wanted Will be Called When the Connection Is Made by the Machine That Never Makes Mistakes, Never Listens and Never Talks Back-An Interesting Article on the Advantages of a Modern Electric Appliance-Work in Omaha

Omaha 2-3-7-8." (Another interval.)

followed by a lengthy explanation to the clerk.)

We all know what it means—we have had the experience. And it is a relief to many to know that the time is vote in favor of the new company. The question of high nect with the third hundred in that thousand and the fig- dinary telephone and the only additional equipment that rapidly drawing near when we can discard the "hello" rates and poor service was one of them. The people of ure 4 and 3 connects to the forty-third subscriber sees is the small dial on the face of the insystem for the quiet, rapid automatic, which will tell us Omaha were anxious to get away from the party line hundred. This puts you in direct connection with the strument. This dial has ten numbers on it, and when a promptly whether we can talk with our party or whether system and this could be accomplished through the auto- party you are trying to reach. If his line is busy you subscriber desires to call up another subscriber, he pulls the line is busy.

There will be no central operator-no waiting for numbers and no misunderstandings. It will be purely a they entered into a contract with the Union Telephone party direct by merely pushing the button on your instru- telephone called is busy, the calling party is notified by "Yes" or "No" proposition.

pany. The history and progress of the telephone is inter- 240 maholes completed; 2,016 poles set in the alleys and a minimum. esting. Some of us can remember when we used to experi- guyed. The main exchange building at Twentieth and ment with a long piece of cord attached to a tin can over Harney streets, which is the finest two-story building in stores the switches to their normal position and either years. the end of which was drawn tightly a piece of heavy the city and absolutely fireproof, is ready for the roof. party can take off their receiver and call any party depany had enjoyed a complete monopoly. Fifteen years will be ready for the switchboards September 15th. ago the Independent telephone entered the field. For the to its customers. Then the Independent telephone busi- will start giving service in December. ness began to increase, until today it shows the greatest the exact figures being one-thirteenth of 1 per cent.

with the exception of four or five of the largest cities, the most perfect service and carried its underground trenches switchboard during the time of installing. Independent Telephone companies are firmly established out to Twenty-fourth street and Ames avenue on the north; all through the United States. At the present time Inde- Dodge and Forty-second streets on the west; all the busipendent telephones have, in round numbers, over a million ness district from Nicholas to Leavenworth streets, bemore telephone users in America than the Bell Telephone tween the river and Twentieth street and to the southwest

in line. In the state of Nebraska it is estimated that there the underground system of the Independent Telephone are 102,000 Independent telephones to 44,000 Bell tele- company the largest of any city in this country, the size of the day and every day in the year. The only operators phones. In Iowa there are 183,000 Independent to 37,000 Omaha. of the Bell. This great majority were clamoring for Omaha connection. The business men of Omaha knew automatic rather than a manual plant, are: Its great popthat thousands of dollars' worth of business was being di- ularity wherever operated, reasons for which are found in

for and 3,505 against the Independent.

matic telephone.

Construction company to install and finace the system. ment. In a back room on the second floor of the Conserv- The Union Telephone Construction company is the largest

years has been less than those of the First National bank, the company is placing a large percentage of its plant each operator to reach any subscriber. underground. The franchise only demands that the wires as far as Hanseom park, which is four times as much un-Omaha was one of the last of the large cities to fall derground as any other company in the city and it makes

Among the many reasons for preferring to install an

the service. The system, as it is being installed in its latest development in this erator. city, is not nearly as complicated as one may be led to believe. Bearing in mind space devoted entirely to long distance that an automatic plant, having a capacity of more than 9,999 lines and consistmust have numbers containing four fig. place marked "Long Distance," which its natural place, which operations im- party has been reached, when the opermediately selects a vacant trunk line to ator calls your telephone. the A exchange. It must be borne in mind that the letters merely designate telephone to private branch exchanges, The main exchange A, will be located at handled by the automatic system at a Twentieth and Harney; B exchange will lower cost on account of the greater celing, and other exchanges will be installed released, requiring fewer number of as the service requires. This method of lines to be paid for by the year.

ELLO, central, give me Omana 2-3-7-8. No, verted to competitive cities simply because they could trunking is one of the finest points of the automatic equipchange. Pulling the dial to the figure 2 connects to the lays off Sundays, Saturdays or any other day. There were many reasons for this overwhelming second thousand in that exchange. The figure 3 will con-

ative building is a small mechanical instrument occupy- and strongest construction company in America and there The movements of the dial operate four switches on the accurate, as machinery never says the line is busy unless ing a space no larger than that of the ordinary wall tele- was no delay in starting work. April 24th saw the gangs switchboard located in the exchange building. The it is. phone which we are told will solve the problem. It is a in the ditches and now, two months and nine days after, switches all being in duplicate and all performing pracsingle switchboard of the new automatic telephone com- eighty-one miles of underground conduit has been laid; tically the same operation, complications are cut down to phone company is meeting with wonderful success, and it

hibitive price on adding to a large exchange.

great preference. As it is always on duty every hour in of the business district. Here the number required is again cut in half, because the has been favored in every way possible, with the exceplong distance operator is immediately secured by one tion of a few experts, which it was necessary to bring in movement of the calling dial. And the calling party is to oversee the work. the quickness, reliability and secrecy of notified from the long distance board

without the intervention of any other op-

On the automatic dial there is one ealls. If you wish to talk with a party over the long distance line, all that is ing of more than one exchange building, necessary is to pull the dial down to the ures with a prefix denoting the exchange puts you in direct communication with in which the number is located. The op- the long distance operator, who is superation of calling any number, for in- plied with telephone directories which stance, A2343, consists simply of pulling enable her to get your party direct. You the dial around to A, letting it go back to are not disturbed at all until the proper

All the familiar applications of the the different trunk lines or exchanges, inter-communicating systems, etc., are be located at Twenty-fourth and Cum- erity with which connections are made

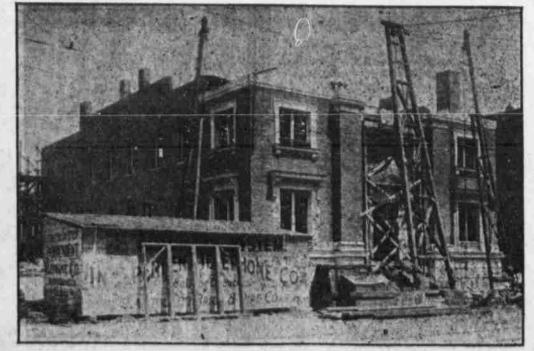
The automatic telephone is about the size of the orthat's not the number; 2-3-7-8, Omaha." (In- not reach Omaha over the Independent lines. It was ment and is the point that appeals most strongly to the day and is as far ahead of all other telephones as the terval.) "Central, will you please give me finally decided to put the matter to vote. On November practical telephone man. Connections can be made as present manual telephone is ahead of the old tin can and 6, 1906, the people of Omaha spoke in no uncertain tones quickly with a subscriber in a different exchange, miles string. It is quick, secret, never gets mad or goes on "Give me complaint, please." (Another interval, in favor of the Independent plant, the vote standing 7,814 away, as with one whose line terminates in the same ex- strikes, is just as fast at midnight as at noon, and never

The automatic telephone is about the size of the orwill receive the busy signal at once; if the line is not busy down the numbers desired on the dial, and his connection After the franchise was granted to the local people, or if you do not receive the busy signal, you can ring your is made without the assistance of an operator. In case the what is commonly termed "the busy buzz," which is all It does not require over four seconds to make the call. done mechanically and can be relied upon to be absolutely

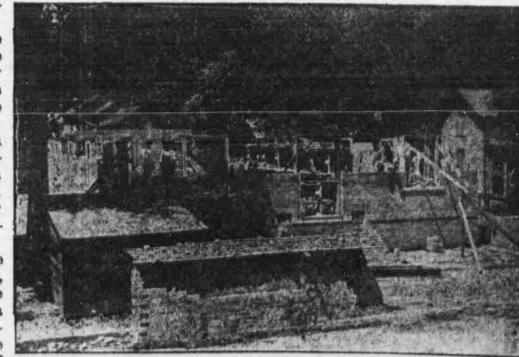
> The soliciting department of the Independent Teleis predicted by those in a position to know that Omaha Replacing the receiver on the hook immediately re- will have at least 30,000 telephones within the next two

It is interesting to know just how the location for a paper. Only fifteen years ago the basic patent of the tele- The first sub-exchange on Twenty-fourth and Cuming sired. This is one of the big advantages of the automatic telephone exchange is determined. This is really one of phone expired. Up to that time the Bell Telephone com- streets is up to the second story. Both of these buildings where it is desired to call a number of parties in a limited the most important problems which confront a new comtime. And by actual trial, has been found to beat the pany. How important to secure the right location will be The company's warehouse and yards are stored full manual system by an average of three calls to one. Prob- best understood when we state that it would cost the first two or three years the Bell company merely laughed of cables and wires and other necessary fixtures, which ably the greatest reason for preferring the automatic Independent Telephone company of Omaha \$18,000 for at its weak competitors. Soon the country began to awake are being rapidly installed. The installing of the switch- system from an investor's point of view is the small cost extra cables to have moved the main exchange one block to the fact that the newcomer was furnishing lower rates, boards will start September 15th and the contract calls of putting additional equipment to an exchange already in any direction from its present location. To secure the better service, and giving, above all things, a square deal that they be completed November 15th, and the company large. This operation consists merely in adding new most central location, a list of present users of telephones switchboards without disturbing those already installed. was first secured. These locations are accurately located The plant will open with 6,000 subscribers, but will While in the manual equipment the whole of the switch- on a map; a line is drawn from north to south, so that half development, in ratio to its years, of any industry in this be equipped for 30,000. Every piece of material that is board already installed must be gone over and terminals of the subscribers are located on each side; then another country and the percentage of failures in the past fifteen going into this system is the best that money can buy and for each additional line installed in each section to enable line is drawn from east to west, dividing the subscribers into four sections. The point where the two lines intersect Also in new the sections terminals must be installed is considered to be the exact point where the exchange At first only small towns adopted the Independent be placed underground in the district bounded by Ninth, so that connections from the new lines installed may be ought to be located. The heavy expense of the telephone system; they were so universally successful, however, that Jackson, Davenport and Eighteenth streets, but the com- made with the old ones. This causes a great deal of splic is in the exchange is located in the exact the investors soon started after the large cities and today, pany desired to help beautify the city and to give the ing of cables, causing trouble and annoyance on the center of distribution it will require less wire to reach the subscribers than from any other location. This method of The additional equipment for each line in a large ex- locating the exchange may be slightly modified by the change makes the cost per line very high and puts a pro- fact that the exact distance from each subscriber is measured, so that, before starting the plant, the exact number As the demand for operators by the manual system is of feet of wire necessary to be used is accurately deteralways far in excess of the supply, particularly for even- mined. This will explain why it is not always necessary, ing duty, this feature has also given the automatic system or advisable to locate a telephone exchange in the center

The construction work of the Independent Telephone required being those on the long distance switchboard. company of Omaha has exceeded all records. Omaha labor



STATION "A", TWENTIETH AND HARNEY STREETS



STATION "B", TWENTY-FOURTH AND CUMING STREETS