

DR. E. M. LONG  
DENTIST  
Over White & Burchard's Drug  
Store, Union City, Tenn.  
Telephones—  
Office 144-2, Residence 144-3

# THE COMMERCIAL

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**A NEW LEAF.**

*Resolved  
That this  
year I will put  
my money in the  
Bank. It will  
be safe there and  
it will grow.*

*Last  
year  
I  
saved  
nothing*

Peter Cooper, who when yet alive, gave \$630,000 to found Cooper Union in New York City, earned only \$25 a year for the first two years he was in that city. He was an apprentice to a coachmaker. He saved \$20 the first two years and put it in the bank.

MAKE OUR BANK YOUR BANK.  
**OLD NATIONAL BANK**  
Union City, Tennessee

## Cherry-Moss Grain Co.

Wholesale and Retail

### Grain, Hay and Field Seeds

#### CLOVER

Alsike, Alfalfa, Red Top, Timothy,  
Blue Grass, Orchard Grass  
and all kinds of Field Seed

#### HAY AND CORN

Corn Chops, Bran, Oats, Cotton Seed  
Meal and Hulls  
and all kinds of Feed.

Union City, Tenn.

Telephone No. 51

## COTTON SEED Meal and Hulls AT THE GIN

Very close prices on Meal and Hulls, both in car lots and in retail lots. Have the highest protein made in meal, and best feeding value in hulls.

Will make local shipment to any point party desires. You can buy your Meal and Hulls at mill prices.

Also GINNERS and COTTON BUYERS, both in seed or in bale.

Office Phone 346. Residence Phone 514

## LAKE COUNTY MFG. CO.

F. L. PITTMAN, Manager Union City, Tenn.

### NEW TELEPHONE SYSTEM UNION CITY EXCHANGE

#### Installation of New Plant in Union City Nearing Completion.

The Cumberland Telephone and Telegraph Company, which has been conducting the work of converting its plant in Union City from the magneto, or the old-style service, into the flashlight system, for several months, is now nearing the completion of that work. The new system will dispense with the bells in calling altogether. There will be no ringing in order to get your call. The receiver, or ear phone, will simply be lifted from the hook, and the action caused by the removal of the receiver produces a flash of light immediately over your number at central, who will plug out your light and call the number wanted.

Before we enter further into the operation of this new system, will state that a representative of the paper visited the new plant this week. We were very courteously received and conducted through by Mr. O. T. Pickard, who, by the way, has been an exceedingly valuable addition to the citizenship and business interests of Union City. Mr. Pickard is District Manager with headquarters in Union City, and is personally conducting the contract in Union City, which involves a complete transformation of the system and an outlay of approximately \$35,000.

It is very pertinent here to remark that a realization of the extent and importance of these changes was brought home to us in a very forcible way. When Mr. Meninger was here and he and other representatives of the company, with Mr. Pickard, stated to the local committee that the changes to the new system would involve a large outlay and an expenditure of about \$35,000, the report was received with a great deal of misgivings. The committee, it might as well be said, was dubious.

But when we were shown over the new plant with its extensive and innumerable modern devices for promoting the efficiency of the service, the intricacy and accuracy of every detail and the perfection of the whole work, it could be easily understood why the change would be not only expensive but require the very best skill and months of time in which to accomplish it. It must be remembered also that the wiring and cables all over the city had to be completely changed, the poles and wires removed from the main business thoroughfares altogether, and after the office fixtures and plant have been practically installed into place the changing of the instruments in the homes and business houses takes place. All this with the buying and building of new office quarters will undoubtedly incur an expenditure of the amount not far from the figures stated by the company as their estimate of cost.

In the first place the office and exchange quarters have been actually doubled. The house on the corner was formally the property of the company, who enlarged its real estate holdings by the purchase of the adjoining building. These buildings have been converted into double apartments, one for the offices of the company, with a rest room, lockers and adjuncts to the rear for the comfort of the operatives. The apartment to the west will be devoted exclusively to the exchange and operating room. All the new operating apparatus is now being installed into this apartment, and the contract for the work is in the hands of the Western Electric Company, with Mr. E. Arnold, a scientific electrician, as manager of the installation.

The front office to the east will be for the manager and his assistants with a lobby for the patrons of the company. The front of the building has been rebuilt entirely, as can be seen from the street, with pressed buff brick, and ample window light, in very attractive architecture. The offices will be supplied with the most substantial hardwood booths and furniture. The rest and cloak room to the rear will be supplied with literature for the use of employees and operatives exclusively. From Depot street an entrance will be made for the operatives and the apartments will be connected with an arch door near the center, through which the operating room can be reached. It will all be conveniently and comfortably arranged, for the operatives as well as

the other employees, with ample light and ventilation. The skylights will be ventilated and vents through the roof made for additional ventilation.

It will be one of the most complete plants to be found in any city and Union City will be furnished with the latest and best telephone service in the country.

When all these things are taken into consideration there can be very little objection to the schedule of rentals and the change of operation. The rentals are actually lower with the new service when the duplex system is used, and that is an inducement which cannot be overlooked, especially by those who are not able to take advantage of the desk service and higher rentals.

#### DETAILING OPERATION.

The exchange consists of three sections of switchboard for local subscribers, two sections for rural subscribers and three for long distance. In addition to the switchboard there are two sets of storage batteries of eleven cells each, a mercury arc rectifier for charging the batteries and all the necessary frames, racks, lightning arresters and line testing apparatus.

The principal frame is the main distributing frame, which is used to connect any subscriber to any number to which he is assigned. The subscribers' lines all terminate at this frame permanently after going through the lightning arresters. At another point on this frame all the lines from the switchboard terminate permanently. The frame is so constructed that a "jumper wire" can be run in to connect the subscriber to his number. In case a number is to be changed it is only necessary to run in a new jumper.

After the incoming lines leave the main distributing frame they run through cables to the switchboard, twenty lines to each cable. After each line has looped through the board in front of each operator they run to the intermediate distributing frame. On the opposite side of the frame are located the lines to the answering jacks. They also are in order of their numbers. The answering jacks are similar to the multiple jacks which are previously described except that there is only one to each subscriber and each is provided with a removable number plate and each has a small electric light underneath. This light illuminates when a subscriber removes his receiver from the hook. Each operator has approximately 200 lines to answer, but as she sits close to the next operator she can reach over into the next section and help out if it becomes necessary.

When a subscriber removes his receiver from the hook a light appears in front of the operator just below his answering jack. The operator immediately inserts a cord in the jack, and the light goes out. She then throws the listening key corresponding to that cord. This enables her to converse with the subscriber and ask what number he wants. She then takes the mate to the cord on which he is talking and with it makes the busy test, that is merely to touch the tip of the cord to the metal sleeve of the multiple jack which bears the number with which he wishes to talk. If the line is busy the operator will hear a sharp click in her receiver. This is also audible to the subscriber. The subscriber must call again. If the line is not busy the operator will insert the cord into the jack and operate the ringing key, thus ringing the other party. The supervisory lamp on this cord will light when the cord is inserted in the jack and remain lighted until the subscriber answers, so it is not necessary for the operator to listen in on the line until the party answers. When the conversation is finished and both parties hang up their receivers two lights will appear before the operator, thus indicating that both parties are finished. She will then remove the cords from the jacks without listening on the line. As the removal of a receiver from its hook will cause the line lamp to light, it is important that the receiver be kept on its hook at all times when not in use. When a receiver is left off accidentally the operator reports it to the wire chief, who will test the line with a volt meter to be sure it is a receiver off and not other trouble. If his tests show a receiver off he will put "howler" out on the line. This will cause a loud noise in the subscriber's receiver, who should immediately hang it up. As each operator has fifteen

pairs of cords, she can connect thirty subscribers at the same time.

The rural subscribers are handled in much the same manner as the local except that their answering jacks are provided with drops instead of lamps.

When the new system is in operation the old phones will be removed and each party provided with a small neat set without batteries or crank as all the power is furnished from the exchange storage batteries. The matter of future growth of the apparatus is provided for many years to come.

The chief operator is with a desk in which is mounted jacks connected to each operator's transmitter so that she may listen to what any operator is telling a subscriber by cutting in on that particular operator's position. This enables her to properly supervise her operators.

All cables entering the building are covered with lead sheathing, also all cables carrying toll lines within the building are lead covered.

When two parties are talking they are using about 585 feet of wire inside the exchange and are talking through 42 soldered connections. Sixty-one more soldered connections are used for controlling the supervision of the two parties talking.

Over 200,000 feet of wire, 300 feet of iron conduit, over 130,000 soldered connections, 990 lamps, 2,400 jacks, 1,500 relays are used, and 600 pounds of acid is used for the storage batteries. The switchboard is of mahogany and all framework of steel. Ninety square feet of blue prints are used by the men installing the exchange.

#### Lankford Trial Again.

Hickman, Ky., Jan. 10.—The trial of Bub Lankford, charged with the murder of Allison Tyler here one year ago, was called again at Wickliffe, the last trial in August resulting in a hung jury. In addition to the large number of witnesses in the former trial, numbering nearly 100, there have been a number of additional persons summoned as witnesses to appear at the trial. The hotels at Wickliffe being unable to accommodate the large number, private homes of Wickliffe are taking care of numbers of them, besides many stopping over at Cairo, Ill., five miles away. The new witnesses subpoenaed by the commonwealth are: Mrs. J. O. West, Fred Hayden, Tom Simpkins, W. T. Pendleton, Oce Harris, Rev. R. M. Walker, Green Longnecker, R. R. Rogers and J. C. Ellison. The State, by summoning additional witnesses, evidently expects to develop new testimony at this trial. This trial has the interest of the entire end of the State, prominent lawyers being employed on both sides.

#### Red Barns in Tennessee.

Many new barns are being built in the rural districts of Tennessee.

Building material dealers in all sections of the State report an unprecedented demand for barn lumber and red paint. Next to the home, the barn is the most important building on the farm, and wherever red barns exist there frugality and prosperity abides supreme.

The rapid construction of new barns in Tennessee is lifting the farming industry of this State into a higher zone of utility and is establishing a new era in our industrial progress. No community can proceed far into its agricultural economy until its stock are well sheltered and its crops are properly housed.

#### ACT QUICKLY.

DELAY HAS BEEN DANGEROUS IN UNION CITY.

Do the right thing at the right time. Act quickly in the time of danger.

In time of kidney danger Doan's Kidney Pills are most effective.

Plenty of Union City evidence of their worth.

Mrs. E. M. Duncan, Todd St., Union City, says: "For years I was bothered by backache and pains through my bladder. The kidney secretions were too frequent in passage. Doan's Kidney Pills made me well." (Statement given March 1, 1911.)

OVER THREE YEARS LATER Mrs. Duncan said: "Colds sometimes weaken my kidneys but I can rely on Doan's Kidney Pills to relieve me. I have as much confidence in this medicine now as when I recommended it before."

Price 50c. at all dealers. Don't simply ask for a kidney remedy—get Doan's Kidney Pills—the same that Mrs. Duncan had. Foster-Milburn Co., Props. Buffalo, N. Y.

#### NEWS NOTES.

President Wilson voiced what a crowd of more than 4,000 people assembled at Indianapolis to hear his Jackson day speech interpreted as a hint that he might be a candidate for President in 1916. The people leaped to their feet and cheered until the President himself called for quiet. He arraigned the Republican party and defended the Democratic Administration. Mr. Wilson referred to himself as an "animated conservative."

Gen. Villa and Gen. Scott met on the American side of the International Bridge at El Paso to try to find some means of ending the border warfare at Naco. Gov. Maytorena also was present. No statement as to results was given out.

In spite of the strenuous German denials that Cardinal Mercier is being held prisoner at Malines, the correspondent of a Dutch newspaper says the Belgian prelate is under arrest.

Senator James made a speech in the Senate supporting the attack made by Representative Johnson on the "half and half" system of taxation in the District of Columbia.

Owing to the mounting price of wheat an association of Chicago retail grocers and butchers is about to start a propaganda for an embargo on the export of that cereal.

The foot and mouth quarantine in Southern and Western Kentucky will be lifted next week, according to information in Washington.

Governor-elect Frank B. Willis, of Ohio, resigned from the House and left for Columbus, where he will take office Monday.

The Census Bureau in a letter made public suggests that the Cantrell act providing for a tobacco census be amplified.

The United States Mine Workers of America have offered \$200,000 for the holdings of the Bache-Denman Coal Company in the Hartford Valley of Arkansas and the deal probably will be closed within a few days.

P. H. Callahan, of Louisville, was named chairman of a commission of the Knights of Columbus to investigate a movement declared to be in progress among anti-Catholic publications and societies to drive Catholics out of public life.

Administration leaders are growing more apprehensive about the legislative program outlined by the President, and they enter upon this week with firm determination to make all the progress possible.

No evidence of restraint of trade by the American "Beef Trust" in Australia was adduced by the recent three months' Federal inquiry, according to the report of the Royal Commissioner, Justice Street.

A ceremonial pageant representing the return of Andrew Jackson and his troops from Chalmette 100 years ago was given in New Orleans.

Marshall P. Wilder, author and humorist, died at a hotel in St. Paul of heart disease, complicated by a slight attack of pneumonia.

Stop the leaks in your roof with Lum-Cement. Sold by the Union City Roofing Co. Stops leak on any kind of roof.

#### Cotton Goods.

Chattanooga, Tenn., January 8.—Great opportunities for expansion of the cotton goods trade with the South American countries are open now that the European mills have been curtailed and a number of Southern cotton mills are taking active steps to capture a generous share of this trade, declares John Lyon Chandler, South American Agent of Southern Railway, who calls attention to the following interesting figures:

Of the \$14,000 of cotton goods imported by Chile in 1912, only \$770,000 came from this country. Germany, whose trade is now cut off, supplied \$3,400,000, and Great Britain the rest. In the same year, Argentina bought \$35,700,000 of which \$5,527,000 came from Germany, over \$17,000,000 from England and only \$445,300 from this country. Of the \$18,000,000 of cotton goods imported by Brazil, \$3,800,000 came from Germany, \$11,000,000 from England, and only \$329,000 from this country. Figures in regard to woolen goods and cutlery into the South American countries show similar opportunity.

Call 150 and get your coal and wood. Union City Ice & Coal Co.