parky by its inherent characteristics.

One of the most important appli-

above the ground. The over-all length

cations of the loop antenna is as a

INSIDE STORY PERTAINING

(Continued from page 1)

000. They purchased the Nim Long shed outside the city. Mr. Winburn place for him at a cost of \$6400 and claims that Sap - and - Salt-in-thetook options on many other places Woods has been made absolutely that might seem suitable for the sanitary, and that he is being perse purpose of the organization.

year-Mr. Winburn returned to Ash- He says he wants to stop the perseland. In the meantime word had cution if he can, and he has chosen Cage, Loop and Umbrella Forms reached him that he was not being to attack the jurisdiction of the city put in to his liking, and he expressed to accomplish that. The courts will dissatisfaction with his local repre- determine the case according to the sentatives, Vining, Carter and law and the facts. burn could but take it.

Ignorant of Watershed

prepared plans for his cottage, Sap- against Jesse Winburn, the chances and-Salt-in-the-Woods, and let the are ten to one that it is political contract for its construction. When bunk. Instead, let's elect an adminthe building operations were nearly istration of the city for the next completed, to his surprise a great two years which will handle the Ashhullabaloo was raised about his con- land water matter in the light of

and Briggs withdrew as his attor-Yney. Wm. Briggs, of the firm of Briggs & Briggs, was city attorney at the time the water contract was made with the city, and E. D. Briggs the city, who knows but that Mr. of the firm of Briggs & Briggs, was Winburn will donate the Nim Long attorney for Mr. Winburn's corpora-tion. Mr. Winburn complained to the Tidings editor that the firm of Women's Civic club building, or, in Briggs & Briggs would essay to rep-purchasing the Granite City hospital resent both sides in a legal contract, property, as he says he is doing, to and gives that as one of his reasons be made a present to the town, and

think, fixes the lens on the individ-presence will not be a menace to uals who are responsible for Win- Ashland's water supply. Who has the burn being in the Ashland canyon right to question Jesse Winburn's with his Sap-and-Salt-in-the-Woods. motives in this matter? What has We think Irving Vining, E. V. Car- he ever done to justify it? So far, ter and E. D. Briggs evinced little it seems to us, Jesse Winburn has Interest in keeping the Ashland wa- shown a very wholesome interest in ter from contamination when they Ashland. He has scads of money, recommended to Winburn the Nim and he appears inclined, as far as Long cabin as a suitable place to we have been able to see, to spend locate his Sap - and - Salt-in-the- it for the good of the town. Is it Woods and, as active members of not the part of wisdom, then, to enhis Ashland corporation, closed the courage Mr. Winburn in his benedeal for the place for that purpose. factions, rather than to discourage In our judgment, if the Ashland wa- him through persecutions? ter is contaminated by Jesse Winburn, these gentlemen are more to blame than Winburn because they knew that was the Ashland watershed when they recommended it and, as officers of Mr. Winburn's Ashland corporation, closed the deal for the Denman Thompson, a vaudeville the cage is that high tension corona Nim Long place. Give the devil his player, in 1875 wrote a sketch called losses are reduced to a minimum. If

Politics Enters Story

of the story. After Mr. Winburn and produced at the Boston theatre damped or spark transmitter is used, and Mr. Briggs had their "run-in," in 1886. It was a stage success for the cage antenna will be advisable. the city of Ashland, under the guid- more than 32 years with Mr. Thomp- Also uniform current distribution is ance of its city attorney, Wm. son in the leading role. It has been secured by the use of the cage an-Briggs, became very active-and ex- screened as the first starring ve- tenna. This is not the case with the ceedingly solicitious on the purity of hicle for Theodore Roberts. its water. Mr. Winburn has always claimed that the city administration of E. D. Briggs, as an individual is to have for his next story a novel the Carter interests. He declared action stories in the country. It is because of the uniform current distriwar on Briggs and, we think, the a romance with a punch. powers of the city are now being at- Another player who just complet- certain well defined directional charhaving the city of Ashland used as City, this week from Honolulu. a catspaw to pull the political chestnuts out of the fire for Briggs, Carter, or anybody else. The administration of the city of Ashland has enough to do to properly conduct the affairs of the town without becoming a party to "fumbling political chestnuts."

The Tidings stands, first and last, for keeping Ashland's domestic water supply absolutely pure. It is one of the greatest assets of the city. but we do object to making that issue "political bunk" with which to prejudice citizens against a newcomer, who has shown every evidence of his interest in the city by making the splendid and unselfish contributions to public enterprises that Mr. Winburn has made, and especially humiliating is it to see the mayor of the city allow his political prejudices to lead him so far in his enthusiasm to cast aspersions on Mr. Winburn, in clapping his hands in approval of a bunch of political bunk thrown out by the city attorney purely for prejudicial purposes, to the extent that made it imperative for Judge Gowdy to reprimand him publicly from the bench.

Legal Machinery Started

the merits of the case before Judge TO JESSE WINBURN Gowdy. The legal machinery has been set in motion purposely by Mr. Winburn to settle the question of jurisdiction in the Ashland watercuted by the city attorney, and not Many months later-possibly a prosecuted, for political purposes.

Briggs. When Winburn arrived he In the meantime citizens will do was in a vexed frame of mind. The well to take the claims of Briggs, think that the cage antenna is more point in several directions. The leadwork of his representatives, he said, Lamkin and Company against Win- efficient than other forms. One of in is taken from the central point of did not suit him at all. In a short burn with a grain of salt, and re- the arguments advanced for their use the antenna system. while he allowed the contract on the member that it is likely that they is that they have been adopted by the In general, length of the radiating Oregon hotel to lapse, and let it go, have a greater interest, even, in per- United States navy on all ships. There wires or "ribs" of the umbrella is losing, it is said, his \$10,000. He petuating the candidacy of Mr. is a good reason for the adoption of about two-thirds the total height of allowed the option on the Murphy Blake, who was a member of the it is not because of the great efficiency not fixed, and a different ratio may Mann's Dept. Store, advertissprings to expire and quit at a loss council the past year, whose name of the cage type. In fact, the only rea- be employed with success. As can be of some \$1000 or more. However, was suggested by E. D. Briggs as a son the cage type is used at all in the seen in the illustration, insulators are his agents had purchased the Nim candidate for mayor in the coming navy is because of the fact that it placed about one-third of the way from Long place outright, paying half the election, and whose petition was cir- would be difficult for an enemy shell the top of the "rib" wires, so that the purchase price down, and Mr. Win- culated by Mayor Lamkin, than they to carry away the antenna with a actual antenna will be some distance have in the purity of the Ashland single shot. water supply. Don't go into a frenzy, Tabout the Ashland watershed. He by Briggs, Lamkin and Company taminating Ashland's water supply. facts and scientific investigation, Upon his arrival in Ashland, it is without prejudice to anybody, and said, he took Mr. Briggs to task for determine the case purely in the inacting in such a manner as to "get terest of Ashland's matchless water him in bad," and he and Mr. Briggs supply, and not to cast reflections on had a heated controversy over it. persons, or use the issue to "get back" at somebody they don't like. May Change Location

If we do that, and it is clearly shown to Mr. Winburn that his presence in the canyon is a menace to as freely as he has given to the for dismissing Briggs as his attorney. find for himself another location Here ends the story that, we for his home in the woods where his

Movieland Notes

"Joshua Whitcomb," which he later the amateur is using undamped oscilexpanded into a three act play. This And now comes the political side was christened "The Old Homestead" transmitter, he need not be concerned

was under the political domination Charles Jones, the William Fox star, and as political representative of by one of the foremost writers of of the high-voltage corona losses and

tempted to be used by E. D. Briggs ed a long hop into the "Merry-Go- acteristics. The one having the most to "get back" at Winburn. We think Round" cast is Dorothy Wallace, a that is really the milk in the cocoa- former James Montgomery Flagg nut, and we are utterly opposed to poster girl, who arrived at Universal tory type of loop antenna for recep-



VINING-TUES. WED., THURS.

Just So. "How about an itching palm?" "An itching palm is all right if a We have no comment to make on nan is willing to scratch for a living."

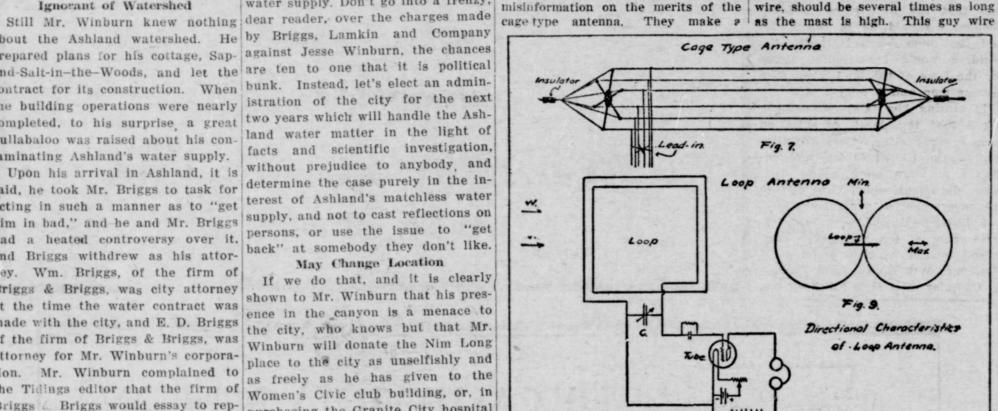


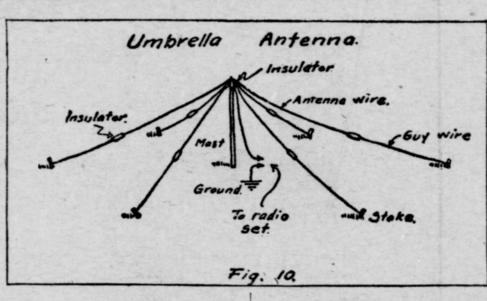
ANTENNAE OF OTHER TYPES ARE DESCRIBED

Have Each Certain Advantages and Special Uses.

Some of the newer generation of connected at the upper end of a verradio amateurs may have been led to tical mast and radiating from this this type of antenna for the navy, but the mast, although this dimension is

There seems to be a good deal of of the "rib" wires, including the guy





pretty appearance, it is true, but unfortunately in radio, pretty is as pretty does, and it takes more than any artistic appearance to do the

One of the so-called advantages of lations, that is, using a vacuum tube flat-top antenna, where the currents are not equal, the outer carrying more If present negotiations go through current than the inner wires. From the foregoing it may be said that the cage antenna is to be preferred to the flat-top only because of the reduction

It has been shown that antennae have clearly defined characteristics is the

oop antenna shown in Figure 9. In actual practice a very satisfactional purposes consists of eight turns of No. 16 wire, spaced one-eighth, and wound on a frame 36 inches square. The fundamental wave length of this antenna is approximately 180 meters.

Obviously loop antennae need not be square. They may be triangular, circular, or any closed shape, and their linear dimensions are not necessarily fixed. Due to their small dimensions, the amount of energy picked up by them is also small, and therefore they should be used only with several stages of radio frequency amplification before the detector. See Figure 8, in which the loop is shown with only a detector.

In the hook-up, L is the loop antenna, and forms the inductance in the oscillating circuit. C is the variable condenser connected across the loop terminals and is used to tune the loop

to the proper wave length. A loop antenna in this manner has extremely sharp directional characteristics and receives signals only from stations in the plane of the loop. That is, the loop must be parallel to the direction of travel of the wave sent out by the transmitter.

Many good circuits have recently been devised whereby loop antennae are used with success in eliminating static interference. This elimination linear dimensions of the loop and

can be fastened either to a small post or to a peg driven into the ground. Due to the fact that the wires of Secretary W. O. W. Phoenix, the umbrella-type antenna cover a large area of ground, the capacity of George Stevens, election exthe antenna is very large. The total inductance, however, is only a little greater than that of the vertical portion of the antenna.

The umbrella-type antenna has not found a very wide field of application | C. in commercial or amateur telegraphy. During the war it was used to some extent in portable army sets. Due to its directional characteristics, which W. A. Childers, election exare nil-or in other words, energy is radiated equally in all directions-it has found some favor with some highpowered commercial stations for transoceanic communication.

RADIO FLASHES

The New York-to-Brazil airplane carried a two-stage radio receiving warnings, time signals, news bulletins and entertainment.

All ships sailing from American harbors and carrying 50 persons are required by law to maintain and operate a radio set capable of covering at least 100 miles.

Every one of the 15 air-mail stations in the United States is radio-equipped. It is planned to provide a few of these with radio telephone, as well as ra-

dio telegraph, service. Montclair, N. J., has installed in its high school an aerial equal in size to some of the broadcasting stations. The receiving set is in the physics department and many of the pupils are li-

censed operators. It is reported that government experts have noticed that highfrequency waves from radio broadcasting stations nearby have caused vegetation to take on a larger growth and reach maturity sooner than under or-

dinary conditions. It is proposed to increase the facilities for broadcasting by varying some of the many 360meter stations by 25 or more meters. It is believed that this arrangement would permit more of the stations to operate at the same time and make it unnecessary to divide the time into so many rather short periods of operation.

COUNTY COURT PROCEEDINGS

(Continued From Yesterday.)

radio compass, for ship, airplane and submarine. By means of the Bellini-D. Collins, jailor's salary \$ 50.00 Tosi system, in which two single wire Anna Schmidt, meals for prisantennae, erected at right angles to each other, are used, the exact bearoners 131.95 ing of a distant transmitter may be Cal. Ore. Power Co., lights for determined. This system is the one jail 4.26 used by the numerous naval radio Mrs. Jane Johnston laundry compass stations along the sea coast. for jail 10.80 The umbrella-type antenna, as illus-Kate Stephenson, jail matron trated in Figure 10, receives its name

from its general shape and similarity to an umbrella. Referring to the fig-Total, \$203.01 ure it will be seen that this type of Juvenile Court antenna consists of a number of wires Frank Lemme, juvenile court expense\$ 3.00 L. Moses, juvenile court

> Advertising and County Printing E. R. Oatman, advertising expense\$ 15.25 ing expense 2.70

Total, \$ 17.95 Election Expense B. Wetterer election expense\$ 14.00 Mrs. John Conrad, rent of

polling place 5.00 Medford Funr. & Hdwe., election expense 12.00 go to heaven?" Mordoff & Woolf, election expense 10.00 Chauncey Florey, payment of election boards1462.05 J. W. Antle, election expense Ashland Public Library, election expense Geo. Beers, election expense 9.20 H. W. Barron, election expense Marie Benedict, election ex-

pense Charles W. Clerk, election expense W. Dressler, election expense F. C. Elliott, election expense Geo. Fox election expense ..

D. S. Force, election expense Rogue River Garage, election expense G. M. Grainger, election expense Benj. Haymond, election expense Rachel Kenyon, election ex-D. W. Luke, election expense 10.00 Lewis & Mitchell, election ex-

pense 12.00 H. G. Meyer, election expense J. D. McKinney, election expense Frank R. Neil, election expense 5.00 W. H. Smith, election ex-

pense Mrs. W. H. Stinson, election expense Dora Saltmarsh, election expense

election expense pense F. A. Southwell, election ex-

pense Ira Tungate, election expense B. Watkins, election expense C. E. Wilhite, election ed-

pense pense 17,94 Ashland Furniture Co., election expense Davis Transfer, election ex-

pense Mrs. F. E. Furry, election expense Mrs. A.G. McCarthy, election expense

Medford Sheet Metal Works, election expense M. D. Olds, election expense People's Electric Store, election expense C. M. Ruch election expense Whittel Transfer & Storage,

election expense 10.00 10:00 a. m. Total, \$1795.39

Roads and Highways Cal. Ore. Power Co., lights, P. & E. crossing\$ 1.00 County Nurse Marie E. Falldine, county nurse's salary\$125.00 American Red Cross, county

nurse's rent 16.00 Total, \$141.00 Surveyor's Office Eva Hooker, surveyor's stenographer\$ 40.00 C. Frank Rhodes, surveyor's office expense 24.00

Total, \$64.00 (To be continued.)

C. B. LAMKIN BARGAINS IN REAL ESTATE

City and Ranch Properties

CITIZEN'S BANK BUILDING

-adv.

5.00

HELP WANTED Ashland Hotel.

LOST.

LOST-Conklin fountain pen without cap, gold-scroll barrel. Find- oR. J. J. EMMENS-Physician and er please leave at Tidings office. Reward.

ANNONCEMENTS

J. O. RIGG Candidate for member of the legislature at the November election. expense 40.00 If I go, I go to serve the best interests of the state, and of Jackson Total, \$ 43.00 county, especially. -adv-36

> STATE REPRESENTATIVE Having been nominated by the people at the May primary, I hereby solicit your support and votes as one of the two State Representatives in the Legislature, to be elected at the November election .- JOHN H. CAR- CONVALESCENT HOME - Good KIN.

MIGHT PREFER OTHER PLACE

"Do you suppose jazz musicians will "Maybe so," replied Mr. Grumpson. "According to the modern idea, near'y everybody is going to heaven, but I

won't present my credentials to St. Peter until I find out whether or not E. E. Ash, election expense 10.60 they'll have to check their horns at the FOR prompt and careful service. 5.00 gate."

Hard Labor. "Well," said the shoe drummer, "what's going on in Chiggersville today?"

"Heard about Zeke Dawle?" asked Squire Witherbee. "No. Has he gone to work?" "Yes. Quite a number of our citi-

5.00 zens were on hand to see him accept a position. In fact, the courtroom was 5.25 crowded."

Poor Chance for Him. He-What would your father do if I told him I wanted to marry you? She-He'd refer the matter to me. He (hopefully)-And what would 5.00 you do?

She-I'd refer the matter to Mr. Smart, who proposed to me and was accepted while you were trying to make up your mind.

Great Power Given Congress. The Constitution gives congress power to raise and support armies. Power to support an army includes everything connected with arming, clothing, equipping, mobilizing, trans-

INTERURBAN AUTOCAR CO.

porting and feeding it.

(Effective January 1, 1922) Daily (Except Sunday) 4.60 LV. MEDFORD LV. ASHLAND 7:00 a. m. 8:00 a. m. 8:00 a. m. 9:00 a. m. 9:00 a. m. 10:00 a. m. 10:00 a. m. 11:00 a. m. 11:00 a. m. 12:00 noon 12:00 noon 1:00 p. m. 1:00 p. m. 2:00 p. m. 2:00 p. m. 3:00 p. m. 3:00 p. m. 4:00 p. m. 4:00 p. m. 5:00 p. m. 5:00 p. m. 6:00 p. m. 6:00 p. m. 7:00 p. m. 7:00 p. m.

8:30 p. m. 8:30 p. m. Sat. only 9:30 p. m. 9:30 p. m. 16:30 p. m. Sat. only 10:30 p. m. Sunday Schedule Leave Medford for Ashland and

Ashland for Medford every hour on the hour from 9 a. m. to 5 p. m.; then 6:30 p. m. and 9:30 p. m. Ashland waiting room-East Side Pharmacy.

ASHLAND-ROSEBURG STAGE Daily (Except Sunday)

3.50 LV. ASHLAND LV. ROSEBURG 1:00 p. m. 1:00 p. m. Travel by stage; shortest route by SWEET CIDER-Made fresh every 20 miles; one of Oregon's most scenic trips. Fare-Ashland-Roseburg, \$4.60; Medford - Roseburg.

\$4.15; Grants Pass-Roseburg, \$3.00. MEDFORD-GRANTS PASS Daily (Except Sunday) LV. G'T'S PASS LV. MEDFORD 7:30 a m. 1:00 p. m. 2:00 p. m. 5:00 p. m. 5:00 p. m Sunday Only 10:00 a. m.

4:30 p. m. 4:30 p. m. Grants Pass waiting room-The Bonbonniere, phone 160. Office and waiting room-No.

Investigate our Ideal

HOT WATER HEATING SYSTEM for Small or Large Houses Our New Line of Heating Stoves Are Now In

Provost Bros.

doz. Dobule bit, 60c doz

W. A. SHELL BARBER Safety blades resharpened like new. Single bit, 30c

> Children's Work A Specialty

BUSINESS AND PROFESSIONAL

One cent the word each time.

PHYSICIANS. WANTED-Day porter and bell hop. DR. ERNEST A. WOODS-Practice limited to eye, ear, nose and throat. Office hours, 10 to 12 and 2 to 5. Swedenburg Bldg., Ashland, Ore

> Surgeon. Practice limited to eye, ear, nose and throat. Gi ssesupplied. Oculist and aurist for-S. P. R. R. Offices, M. F. at 1 H Bldg., Medford, Ore. Phone 667

DR. MATTIE B. SHAW-Residence and office, 108 Pioneer avenue. Telephone 28. Office house, 10 to 12 a. m.; 2 to 5 p. m., only.

CHIROPRACTORS.

DR. E. B. ANGELL-Chiropractic and Electro-Therapy. The combination does wonders. First Nat'l Bank Bldg. Phone 48-142. "Nature abhors a vacuum."

CONVALESCENT HOME

cheer. Good care. Good food, Terms reasonable, 153 Granite St. Phone 411-R.

306-1mo MUSICAL INSTRUCTION VIOLIN STUDIO-116 Church St. Individual instruction on violin-Sevcik method Orchestra and

ensemble work. Harmony, theory

and history. Leonard C. Petit.

TRANSFER AND EXPRESS. auto trucks or horse drays, call Whittle Transfer Co. Phone 117 Office, 89 Oak street near Hotel Ashland.

T. L. POWELL-GENERAL TRANS FER - Good team and motortrucks. Good service at a reasonable price. Phone 83.

CAR REPAIRING

CARS REPAIRED at home by expert mechanic, \$1 per hour, satisfiction guaranteed. G. H. Bowman, 635 Roca St. Phone 368-Y. 36-3*

WANTED.

WANTED-50 to 100 cords 4-foot first growth fir. Ashland Hotel. 32tf

WANTED-Furnished house for two adults. Inquire 173 Oak St. or phone 487-J.

FOR EXCHANGE

FOR TRADE-160 acre unincumbered ranch on Pacific highway and county road, near Hilt; small house and outbuildings; good stock or chicken ranch with plenty of wood and tillable land. Will trade for unincumbered Ashland acreage; prefer no house, but would ensider acreage with small house. Eleanor Greer, 199 Gran. 231tf* ite St.

FOR RENT.

7:00 a. m. FOR RENT-Five room, ground floor furnished apartment, with piano. Lights and water furnished. Inquire Needlecraft Shop, 50 East Main.

> FOR RENT-Four room furnished partment with garage; adults only. 1101 Boulevard.

FOR RENT-House at 435 Guthrie, \$12.50 per month. Taylor, Terrace and Holly streets.

FOR SALE.

FOR SALE-10 acres \$65 per acre, \$650 cash, 11/2 miles town, under ditch. O. A. Manning, Talent, Or.

FOR SALE-Small dairy route of ten cows. Inquire 272 Orange Ave., or phone 444-J. FOR SALE-A number of good milk

Price reasonable. Also young pigs. See J. W. Bailey, Talent, Ore. 30tf day. Two gallons 75c, one gallon 40c, delivered. Phone 9-F-11.

cows. Will be fresh next month.

APPLES-20 ounce Pippins, 50 lb. box, 75c delivered. Phone 9-F-11. FOR SALE-Goat milk. Adderss P. O. Box 463.

FOR SALE-Fixtures of Fourth St. meat market. Call 157 Mechanic

FOR SALE-Cheap, cow. Inquire

Good Insurance

We have not gone out of business! This Agency was established in 1883 and has been built up with the idea of protecting the people of Ashland and vicinity with SOUND INSURANCE. We do not deal in CHEAP INSUR-ANCE; if we considered it safe for the assured, we would have had it to sell at this office years ago. The agent of cheap insurance gets all his stuff is worth. No one can afford to lose even once on fire insurance.

Billings Agency

Established 1883 Real Estate and Real Insurance ASHLAND, OREGON

Phone 211 41 E Main St.

Read the want ads. A want ad will sell it.