**PUTTING UP ANTENNA** 

Two Types of Counterpoise De-

scribed-Energy Losses Min-

imized by Proper Location.

of all the metal parts of the plane.

### Established 1876 Published Every Evening Except Sunday THE ASHLAND PRINTING CO.

OFFICIAL CITY AND COUNTY PAPER TELEPHONE 39

C. K. LOGAN, Editor

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Fraternal Orders and Societies vertising when an admission or other charge is made.

What Constitutes Advertising In order to allay a misunderstanding among some as to what constitutes news and what advertising. we print this very simple rule, which is used by newspapers to differentiate between them: "ALL future events, where an admission charge is made or a collection is taken Is ADVERTISING." This applies to organizations and societies of every kind as well as to individuals.

All reports of such activities after they have occurred is news. All coming social or organization meetings of societies where no

money contribution is solicited, initiation charged, or collecton taken IS

#### BELLEVIEW IRRIGATION

Residents of the Belleview district have united in their endeavor to obtain water for their land. While the land is not worthless without water, with plenty of the liquid to be applied for irrigational purposes, the value per acre will be greatly enhanced, and the productivity increased far beyond that of present.

Irrigation in the Belleview district will mean that those already owning tracts under the water rights will be loath to sell and new settlers can be induced to come into the community and acquire other tracts that will be available once water is obtainable in sufficient quantities to insure crops.

Stimulated by the amount of interest and backing promised at a recent public meeting, at which the irrigation question was the chief topic, when the business men of the city and the chamber of commerce promised to co-operate with the residents of the Belleview district, these men met and organized a club, the object of which is to boost for water for their district.

The development of the Belleview district means much to the community. As this district is contiguous with Ashland development of Belle- you lift your foot for a step and with a chorus of "I've had a strength using 1,100 feet of wire, 12 view means the development of this city. For this reason, every effort should be made to co-operate with the band of men who are so earnest- \* makes you grow old faster than \* pretty presents. ly working for the acquisition of more water.

#### CHRISTMAS IS COMING

With Christmas but six weeks in @ the distance, postal authorities have & You get ahead faster in this @ already started their campaign to o world by working for strang- SWISS GRAPE CURE IS insure early mailing in order to o ers than by working for relaavoid the usual last moment rush. @ tives. An unusually large amount of mail @ is expected to be transported this . HEZ HECK SAYS:

the days slide quickly by. In order @ before she will try hard that safe delivery of Christmas pack- @ work." ages may be facilitated, those who @ @ intend to remember friends in distant parts of the country, should make their purchases early. This WANT MORE ALCOHOL will not only enable them to have their pick of a fresh stock of goods,

to think of the coming season, and the committee on alcohol of the Na- gene, Nov. 16 .- (Special.) - Presi- Roughly, the natural period of single their advertisements are taking on a tional Pain Oil and Varnish associa- dent P. L. Campbell, of the Univer- of the antenna is 1.22 times the length holiday appearance and wording. A tion, in convention here. Under the convention here. holiday appearance and wording. A tion, in convention here. Under sity of Oregon will leave Eugene this in. This natural of the antenna syslittle co-operation between the buy- present regulations, he said, paint evening for a three weeks trip in the tem should be, as stated above, just ing public and the merchants will manufacturers are handicapped by east and middle west in the interest, slightly less than the wave length on greatly expedite matters.

#### Ashland Tidings California May Support Self By Oil Toll; Rich Field Opened Near State Holdings

cent discovery of o'l in the vicinity dispisal up to the next legislature. of the Norwalk state hospital, which One of the strongest indications FURTHER ADVICE ON is located about 20 miles from Los of the wealth that the state has by Angeles, may result in the state reap- mere chance come into possession of ing a revenue from its property is found in the case of John Dow, which would nearly pay the upkeep a gardener at the hospital. of the state government it became Dow, who receives a salary of \$90.

the state board of control, declared the hospital. Since the discovery of that the hospital property is believed oil, the land, for which he paid but to be rich in oil deposits.

single insertion, each inch....30c have been made, however. The cap-spite his sudden acquirement of is suspended beneath it. To a certain so that it will not be near any objects italists who are dickering for the riches, Dow still insists on keeping extent this is true of the counterpoise such as houses, barns, trees, etc. The land have offered to lease it on a his state job at \$90 per month. royalty basis.

borhood of the state hospital prop- erty is said to be of fine quality and tricity, a counterpoise consisting of a insulators with plenty of surface Each line, each time......10c erty several months ago. The new is selling for \$1.45 per barrel, ac- network of wires is laid on the ground creepage distance will minimize inoil fields, located in what is known cording to reports received here. as the Santa Fe Springs district, Oil experts who have examined the part of the antenna. If it is desired to should be taken in bringing in the or more, each line, each time.. 50 have brought in gushers yielding state property declare it is one of from 4000 to 7000 barrels per day, the most valuable pieces of property must be at least equal to that of an- for any great distance. Some of the derricks are within a in the district. To run every issue for one month

few feet of the state's property. various times for purchasing the that may be found.

Advertising for fraternal orders Because of the possibilities that about \$500,000. One good gusher antenna is a good conductor, that is to the buildings and little is left for the or societies charging a regular initi- lie in state property, it is believed would repay the state in six months say, is soft and moist, the earth itself antenna. Sometimes an antenna is ation fee and dues, no discount. Re-ligious and benevolent orders will be that the board of control will refuse for all original expenditures on the charged the regular rate for all ad to take the responsibility of leasing land, according to state officials.

#### THANKSGIVING DAY IN ASHLAND

We know of a place by Nature endowed, With all that she, in one small spot, could crowd: With waters and mines, and granite, and oil, And all other products produced from good soil With orchards, and gardens, and woods near and far, And all are prize winners-in fact, above par.

The valley's not large, we regret to relate, But by "quality" measure, we're both big and great-And scenery, and climate-words cannot express! And all these are included in the Day's thankfullness. Are we glad of all this, and thankful today That our paths have all led to this wonderful way?

But there's much more we need-development's one-In morals, finances, and all ways 'neath the sun. We feel they are close. "God's touch" here was great, And better 'twill be if we have faith to wait. And God sent us a man, with money and sight-What his hands find to do, he does with his "might."

'Tis Thanksgiving Day! Have we cause to rejoice? It looks as if God has made Ashland His choice. Be thankful today, for the good He has sent; Add your faith and works to the power He has lent. Sum up for the year. Are we thankful? Oh, yes! We're thankful for good Dr. Price-and for "Jess." -Mrs. Elizabeth Yockey.

Folks who work all day have @ little trouble sleeping all night. • where one merry game followed an- tion were used.

Those who make wars are o served. rarely listed among the killed . and wounded.

o pends a good deal on the size o of the dressmaking bills.

"A woman will try al-Six weeks is not very long and @ most anything to 'reduce'

but by marking the packages with ATLANTIC CITY, N. J., Nov. 16 good deal of healthful walking and warnings not to open until Decem- - A plea for alcohol for industrial climbing through the wineyards. ber 25, the burden of a last min-purposes be separated from prohibiute delivery is taken from the postal tion enforcement was made today by UNIVERSITY OF OREGON HEAD ing set directly or a magnetic field to employe and the, by that time, over- H. S. Chatfield, of the Kasebier-Chatfield Shellac company, New Already merchants are beginning York, in his report as chairman of UNIVERSITY OF OREGON, Eu- ural period of the received wave. the difficulty of obtaining adequate principally, of the endowment cam- which reception is desired. By actual supplies and by the incidental de- paign launched this fall by the Uni-

SACRAMENTO, Nov. 16 .- The re-| or selling the property, leaving its

per month from the state, recently Gilbert B. Daniels, chairman of bought a few acres in the vicinity of

a few dollars per acre, has been Several oil companies already have leased by him to an oil company on of a so-called aerial and a ground. In tenna insulators. All of these losses made overtures to the board of con- a one-sixth royalty basis. The pro- certain forms the ground is also known can be reduced to a minimum by proptrol to secure a lease on the prop-duction of the wells on his five acres as a counterpoise. erty, Daniels said. He denied reports is returning him \$500 a day, or an Sometimes a counterpoise is made The losses due to eddy currents can to the effect that offers of purchase average of \$182,500 per year. De- up in a form similar to the aerial and be reduced by erecting the antenna

The oil which is being taken from Oil was discovered in the neight he new fields near the state prop- consequently a poor conductor of electronsphere bronze cable, Good, long

tenna, and for efficient operation, It is always desirable to have an Many state officials here are of should even be greater than the an- antenna just as high as possible, not The Norwalk hospital property the opinion that the legislature will tenna surface. Also the resistance of only to receive the maximum amount First time, per 8-pc.nt line....10c comprises about 337 acres, and be- decide to retain the property for the the counterpoise should be made as of energy, but also to prevent shieldcause the land is low and wet, the state, thereby making possible the state has been much criticized at largest return to the treasury on oil

The hospital property is valued at | When the ground underneath an ly. That is, the energy is absorbed by

WILMA NUTTER CELEBRATES

ma Hall and Maxine Emery.

### Counterpoises.

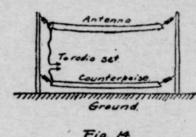


Fig. 15 shielded by some object in such a manner that reception from one particular

is often used as a counterpoise and connection is made with it by means of a number of copper plates or an interconnected network of wires, sunk into the ground at various places within the area underneath the antenna. These buried conductors should have a low resistance and should be put deep enough so that the earth around them is permanently moist. See Figure 15 for a counterpoise of this type.

The Beverage antenna is one of the most recent additions to the art of short-wave radio reception. Due to its characteristics, it was used at Ardrossan, Scotland, last December, when 28 amateurs succeeded in bridging the Atlantic with radio.

The Beverage antenna is adapted to the reception of signals on a single predetermined wave length. It consists of one wire supported on 10 to and is not objected to by the landlord 12-foot posts, this wire having a length of either one or two even wave lengths. If designed for 200-meter HER TWELFTH BIRTHDAY reception, the wire will be either 6,500 or 1,300 feet long.

To celebrate her eleventh birth- Unlike the customary form of anday Wilma Nutter entertained 12 of tenna, this wire is grounded at both her girl friends at her home on Ar- ends. At the far end, away from the mistice day. She met them at the receiver, it is grounded through a non-Junior high school, to be sure that inductive resistance of from 250 to 400 no one lost the way. Mr. Stearns, bringing his daughter in a car, invited the rest to ride to the foot of stages of radio frequency amplificathe hill. It did not take them long tion, a regenerative detector and two to finish the trip to Sunrise Orchard, stages of audio frequency amplifica-

other until refreshments were As stated above, the Beverage antenna is designed for reception of a Several of the guests volunteered single wave length, depending on the to amuse the party at the table by length of the antenna wire. If other telling stories. Promptly at 4 length of the wire must be changed. How foolish you feel when o'clock, hats and coats were donned It has been found that the signal fine time," the little misses departed feet above the ground, is approximatee leaving behind them the remem- ly the same as would be heard with a The condition of your mind . brance of a happy day and many single vertical antenna wire, 130 feet in height. However, the Beverage antenna is highly directional, and on ac-Those present were: Helen and count of this fact, interference from Elaine Chaney, Jeanette Stearns, directions other than those from which Happiness after marriage de- Nell Marie Perrine, Grace Dykester, one wishes to receive is reduced to a Lucile, Dorothy and Nelda Crews, minimum. Also, due to the short dis-Georgia Coad, Wanda Schwein, Wil- tance from the ground, static and atmospheric disturbances are almost

> In general, it may be said that the Beverage antenna is extremely well ATTRACTING AMERICANS adapted for the long distance reception of signals from a given station PARIS, Nov. 16 .- "The grape whose transmitting wave length is

cure" is attracting many Americans known. to Vevey, in Switzerland, where, un- Often by erecting an elaborate ander proper medical supervision, it tenna system, the amateur does not has proved itself to be of great value get as good results as would be obtained from a simple, well-located one. in cases of gout and certain forms The function of an antenna is to cut of liver trouble. The patients rise the electro-magnetic and electro-static early in the morning and cut the components of the field radiated by grapes themselves from the vines, the transmitter, and have induced in and thus the "cure" includes not it an electro-motive force which will FOR USE IN INDUSTRY only the actual eating of three or cause a current to flow in the antenna four pounds of the fruit daily but a

The capacity and inductance of the receiving antenna plus a small amount of lumped inductance in the station to furnish a drop to operate the receiv-LEAVES FOR LONG TRIP EAST transfer energy to a second oscillating circuit, should be equal to the nat-

Try the Classified Columns.

experiment it has been found that the

eceived energy is the same for a

single wire as for a multi-wire anten-

na, unless the spacing between the

wires is very great. The greatest ad-

vantage of a single-wire antenna is

mechanical. It is much simpler to

erect, due to the absence of spreaders,

and it will withstand severe storms

antenna with the same supports.

which would tear down a multi-wire

Not all the energy induced in a re-

ceiving antenna by the wave produced

by the transmitting station is useful.

the eddy currents produced in neigh-

erly locating and erecting an antenna,

ing a heavy conductor of low high-

It has been stated in previous ar- boring non-conducting material, and

ticles that an antenna system consists part is lost by leakage around the an-

used on airplanes, which is made up resistance loss can be reduced by us-

When the earth is dry or rocky, and | frequency resistance, such as stranded

and directly underneath the horizontal sulator leakage. Just as much care

install this form of counterpoise the lead-in as in erecting the antenna.

metallic surface of the counterpoise Don't run the lead-in close to a wall

place in it. A counterpoise of the form taining conducting material, the build-

described is illustrated in Figure 14. ings will shield the antenna electrical-

direction is impossible. Keep the antenna and lead-in as far as possible from electric light and power lines. If a power line runs nearby, run the antenna at right angles to it, and so obtain the minimum amount of interference.

The best receiving antenna for amateur and broadcasting wave lengths is a single wire 100-175 feet long, constructed of standard copper, phosphor bronze or copperweld wire, just as high and far away from surrounding objects as it is possible to get it, and with a lead-in brought down from one end and kept at least three feet away from the house. An antenna for this type not only gives good results but will withstand storms

#### TIPS TO THE RADIOIST

Isaak Newlin, an Eskimo in his early twenties, is a radio operator of marked ability in

Dealers are getting business by testing out each set sold, using it to receive over their own

Lakeview, Ore., has begun to worry about the time lost by its people because of the lure of radio programs.

A song writer composed a song en route to Europe and sent it by radio from midocean for publication. Each note was indicated by name, as "mi, re, do, la-sharp, sol-sharp, etc."

Each fire alarm box in the Presidio, San Francisco, is to be equipped with a radio vibrator, which will turn in an alarm at headquarters when any one yells "Fire!" into it.

At a Chautauqua concert at Camden, N. Y., a large audience was so terrified by a thunderstorm received by radio from a great distance and amplified by the apparatus, that they rushed from the tent, only to find the moon shining and no signs of a

Some of the fire insurance companies are demanding that radio plants be inspected and certificates of approved wiring be obtained. Possessors of radio home outfits would do well to see that their policies are not affected by the installation of their equipment.

One of the great uses of radio in the future will be the sending of day and night letters abroad. The low rates that will be possible will make such communications feasible and economical and reduce the time necessary for transacting transoceanic business to that of land

Government officials have vetoed broadcasting by private outfits in the Canal Zone and Panama, the latter having granted all rights of wireless communication to the United States. Thousands of progressive citizens of both places have protested and offered to pay all expenses involved, but without

ADDITIONAL LOCALS. Return to Hilt-

Mr. and Mrs. Fay Pankeu, of Hilt, have returned to their home after having visited with friends for sev- you are well dressed. Paulserud's. eral days. While here, they attended the Armistice day celebration in Medford.

Exhausted from Grippe Cough La grippe coughs rack and tear the sufferer to a state of exhaustion. Part of the energy is reradiated, part is lost due to the resistance of the an-Would get completely exhausted tenna conductors, part is lost due to from violent grippe coughs," writes R. G. Collins, Barnegat, N. J. "Tried Foley's Honey and Tar and the cough ceased entirely." Used by three generations for coughs, colds and croup throat, chest and bronchial irritation. Foley's Honey and Tar has stood the test of time. Contains no opiates-ingredients printed on the wrapper. Largest selling cough medicine in the world. Sold everywhere.

Returns from Hospital-

Miss Grace Hogue who underwent serious operation at the Community hospital in Medford, is at her home at 391 Beach street now, and although still weak is gaining rap-

If you want the best there is in bacon, boiled hams, chipped beef, low as possible in order to eliminate ing. If an antenna is erected on a lard and shortening, get it at Detthe losses that otherwise would take site surrounded by high buildings con- rick's. We sell for less.

### Gas on Stomach Won't Let You Sleep

Gas often presses on heart and other organs, causing a restless. nervous feeling which prevents sleep. Simple buckthorn bark, glycerine, etc., as mixed in Adlerika expels gas and relieves pressure almost INSTANTLY, inducing restful sleep. Adlerika often removes surprising old matter from BOTH upper and lower bowel, which poisoned stomach and caused gas. EXCEL-LENT to guard against appendicitis. T. K. BOLTON, Druggist.

Siskiyou Residents Visit-

Mr. and Mrs. Resinger, of Siskiyou, were trading with Ashland meichants recently

When our label is in your coat,



that "HE" really is human after all, and does enjoy good cooking.

For years she has seen her mother take down a can of Crescent Baking Powder and has known that something good was in the mak-

So her first grocery order starts with "Crescent Baking Powder, please." Backed by years of satisfaction in homes of the West.

No Bitter Taste With



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QUALITY BREAD Made in Ashland

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The checking account is a typical American Institution. This is because the American man or woman is quick to see the convenience, the safety and the desirability of paying by check.

We invite you to enjoy the advantages of a checking account with us.

### The Citizens Bank of Ashland Ashland, Oregon

## In Stock

# **Duplicating Sales Books**

WITH CARBON

Two Books 250	0
Per Dozen\$1.25	5
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ASHLAND TIDINGS

If it is for Ashland, we are for it. lays.