

BUSINESS AND PROFESSIONAL

One cent the word each time.

PHYSICIANS. DR. ERNEST A. WOODS—Practice limited to eye, ear, nose and throat. Office hours, 10 to 12 a. m. 2 to 5. Swedburg Bldg., Ashland, Ore. Phone 73-1

DR. J. J. EMMENS—Physician and Surgeon. Practice limited to eye, ear, nose and throat. Glasses supplied. Oculist and aurist to E. P. R. R. Offices, M. P. and B. Bldg., Medford, Ore. Phone 76

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

DR. H. M. SHAW—Physician and Surgeon. Special attention Eyes, Ears, Nose, Throat. Glasses fitted. Room 5, Mills-McCall Block. Phone 79 or 28.

DR. G. C. PHETTEPLACE—Dentist—successor to W. E. Buchanan. Special attention given to straightening and care of children's teeth. Office hours, 9 to 12 and 1:30 to 5. Office phone 151. Residence phone 201-J. Camps Building, Ashland, Oregon. 451f

CHIROPRACTORS. DR. E. B. ANGELL—Chiropractic and Electro-Therapy. The combination does wonders. First Nat'l Bank Bldg. Phone 48-142. House Calls

VETERINARY. DR. J. P. CHISHOLM—Graduate veterinary. Located on the Gill property, west of the Normal School on Walker Ave.

CONVALESCENT HOME. CONVALESCENT HOME—Good cheer. Good care. Good food. Terms reasonable. 153 Granite St. Phone 411-R. 306-1mo

TRANSFER AND EXPRESS. FOR prompt and careful service auto trucks or horse drays, call Whittle Transfer Co. Phone 117 Office, 89 Oak street near Hotel Ashland. 561f

T. L. POWELL—GENERAL TRANSFER—Good team and motor trucks. Good service at a reasonable price. Phone 83.

FOR EXCHANGE

FOR TRADE—160 acre unincumbered ranch on Pacific highway and county road, near Hill; 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 consider acreage with small house. Eleanor Greer, 199 Granite St. 2311f

LOST.

LOST—Gold wrist watch Reward for return. Zora McCurry, 468 Oak St. 74-4*

LOST—Large orange Persian cat. Finder notify Mrs. C. W. Sorenson, 466 Allison. Phone 327-L. 71-2*

FOR SALE.

SWEET CIDER—Made fresh every day. Two gallons 75c, one gallon 40c, delivered. Phone 9-F-11.

FOR SALE—Winter apples. Phone 10F13. 52-1mo*

FOR SALE—Winter apples at \$1 per box. Bring your boxes. W. L. Moore, Bellevue. 63-6

FOR SALE—Two milk goats. Address R. 1, Box 32, Talent, Ore. 69-4*

FOR SALE—Canned, commercial size—save your fruit and vegetables. New spray pump; also furniture. R. 1, Box 93. 70-3*

FOR SALE—Dry laurel wood, plenty of heater chunks; 12 inch tier, \$4.50; also 12 inch body fir, \$3.75; 12 inch second growth fir, \$3.25; delivered. 1224 Iowa St. 68-mo*

FOR SALE—Four room cottage, city water and lights, large lot, some fruit, garage, nice location. Low price for cash or will sell on terms. See Mrs. C. E. Lane, Tidings, 68-6

FOR SALE—Wicker baby carriage, in good condition. Inquire Mrs. O. R. Kluth, 78 Sixth St. 70-3*

FOR SALE—Tanned White Leg-horn hens, at 50 cents each. 14 Roca St. 71-3*

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 INSURANCE; 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.

HELP WANTED

WANTED—Girl to do cooking and downstairs work. Good wages. Reference required. Write Mrs. L. A. Salade Jr., Central Point. 67-6

FOR RENT.

FOR RENT—Nicely furnished five room apartment. Light and water furnished. Inquire R. W. Conover, Tidings office, or phone 387-J evenings or Sunday. 651f

FOR RENT—Two room apartment furnished. Adults only. 133 No. Pioneer street. 651f

FOR RENT—Furnished housekeeping apartment, close in. 573 E. Main St. 11-5*

FOR RENT—Small house, nicely furnished, one block from First Natl. Bank. Adults preferred. Phone 122. Inquire 357 Vista St. 711f

LOCAL AND PERSONAL

Bootlegger Is Jailed—Peddling moonshine "likker" in Medford is getting to be an expensive business. T. R. Spencer is fined \$250 and given 30 days in the county jail by Justice Glenn O. Taylor. Spencer was found near a side entrance of a hotel with a quantity in his possession and had just made a sale.

New walnuts, No. 1, three pounds for \$1; Brazil nuts 23 cents pound, five pounds for \$1. Plaza Market, 61 North Main. 64-

If you want the best there is in bacon, boiled hams, chipped beef, lard and shortening, get it at Detrick's. We sell for less. 481f

Dunsuir Auto Stolen—While its owner was attending an orchestra rehearsal, a Ford automobile belonging to E. M. Akers, of Dunsuir, was stolen Thursday evening. Officers were notified and an effort is being made to recover the machine. It is believed that the thieves went north.

Cheap insurance is costly at any price. For sound insurance at reasonable rates, see Billings Agency. Established 1883. 341f

Ask your grocer for Golden Sheaf Bread. 521f

Returns to Dunsuir—Mrs. Charles Smith, who has been visiting friends in the city for a short time, has returned to her home in Dunsuir.

You lose if you fail to buy one of Enders special hams. 72-1

Piano Tuning—Now is the time to have your piano tuned. Carl H. Loveland, Studio, 135 East Main. Phone 465. 661f

Central Point Boys Hike—Boys of Central Point started from the post office in that town early this morning for a long hike through the hills. Each boy took his lunch, meat and a frying pan. The expedition was in charge of the county Y. M. C. A., and adult leaders from Central Point and Medford accompanied the boys.

Dance Jackson Hot Springs, Saturday night. Good music, good floor. Free bus. 70-3

Buy your Xmas aprons and handkerchiefs, Masonic hall, Saturday, December 2, afternoon and evening. 711f

Pierce Expense Large—In his own behalf as candidate for the governorship of the state, Walter M. Pierce, of La Grande, spent \$1065.70 in gaining the position, according to his campaign statement filed with the secretary of state.

Ask your grocer for Golden Sheaf Bread. 521f

Cliff Payne makes fire screens. Good reliable dentistry at reasonable prices. Dr. Henry E. Purl, Beaver Bldg. 441f

Marine Corps Wants Men—Due to the present shortage of field musicians in the Marine corps, an active campaign for enlistment is being staged throughout the country. Young men between the ages of 17 and 18 are wanted to go to the musician's schools at Paris Island and Mare Island. The minimum height for enlistment is 64 inches.

Christmas only a few days away. Order that new suit now, at Orres and get 100 per cent satisfaction. 71-2*

There is still time to have that suit cleaned before Thanksgiving. Ladies' work a specialty. Ashland Cleaning and Dyeing Works. Phone 63. 671f

Another Soldier Missing—

Relatives have requested the American Legion to assist in finding the whereabouts of Fred Henniford Goodwin, of 546 East Market street, Indianapolis, who disappeared October 28. He is 31 years old and weighs 145 pounds. His hair is light brown and eyes are blue. He is five feet nine inches tall. When he left home he wore an army shirt and trousers, a faded blue serge coat and a faded green cap. Goodwin served 18 months with the 150th field artillery of the Rainbow division. Relatives fear he has suffered a mental lapse.

LEEDOM'S Tire Hospital will REPAIR your TIRES the RIGHT WAY and give YOU a POSITIVE GUARANTEE OF SERVICE or your MONEY REFUNDED. 601f

Ask your grocer for Golden Sheaf Bread. 521f

Registered in Portland—Mr. and Mrs. F. F. Whittle, of Ashland, are among the out of town visitors.—Portland Journal.

Fruit cake and mince meat time is here. For citron, orange and lemon peel, raisins, currants, figs, spices, sugar, etc., Detrick's Groceria sells for less. 481f

See Paulserud's \$30 special suit. 671f

Alice E. Hanley Files—Alice E. Hanley, of Medford, spent \$42.25 seeking to be representative from the eighth district on the Independent ticket, according to campaign expenditures filed with Sam Kozer, secretary of state.

Don't buy a turkey. Eat your Thanksgiving dinner at the Plaza Confectionery. Make reservations now. 701f

Phone 401 for residence appointments. Dr. Geo. J. Kinz, Chiropractor. 611f

Turkey Shoot Sunday—Local and Rogue river valley rifle and shotgun experts will be given an opportunity to bring home, not the bacon, but the turkey, Sunday when a big turkey shoot will be held on the Lamport place one mile north of Phoenix. A large number of sportsmen from southern Oregon are expected to participate in the affair.

Crown Best Patent Flour, \$8.75 per barrel until Thanksgiving. Plaza Market, 61 North Main. 64-

Better be safe than sorry. See Beaver Realty Co. about your insurance. Phone 68. 2871f

Orres cleans clothes. Phone 64.

Banquet at Talent—The second annual Father and Son banquet was given in Talent Friday evening by the Sequoias, the junior Y. M. C. A. club of Talent. Practically every man and boy in the district attended the dinner. Several Ashland men made short talks during the evening, while Superintendent A. G. Smith, of Medford, made an address on the subject, "The Boy and the School." A play hour was held following the banquet.

Dance Jackson Hot Springs Saturday night. Free transportation for ladies from taxi 58, Ninninger & Warner's corner. 70-3

Have your clothes pressed on a Hoffman press at Orres Tailor Shop. 71-2*

At Work Near Talent—Mr. Aikins and Mr. Kelly, of the local telephone company, were doing some repair work Friday on the lines of the company near Talent.

We'll help you save—though we're not in the banking business. Paulserud's. 671f

A live charge in your magneto at the Fixit Shop. 701f

Here from Portland—Mr. and Mrs. F. L. Fry, of Portland, arrived in the city Friday for a short visit with relatives and friends. They were accompanied by Mrs. Dr. Poulson, who is stopping for a few days with Mr. and Mrs. Howard Rose.

O. E. S. Apron and Handkerchief Bazaar, Masonic Hall, Saturday, December 2, afternoon and evening. 71-1f

Leaves for South—Mrs. A. C. McCarthy, of North Main street, left this week for the south, where she expects to spend the winter.

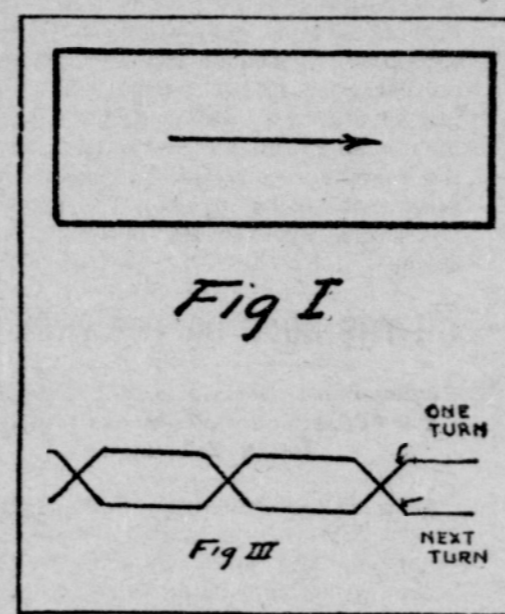
Man leaving for Seattle and points en route about December 12, in comfortable 7 passenger car, will take up to 7 passengers to help share expenses. Write for reservations now. Box 455, Danamuir, Calif. 69-6*

RADIO

VARYING INDUCTANCE OF THE TUNING COIL

How Different Forms of Winding Affect Reception of Long and Short Waves.

Tuning inductances for radio receiving circuits are made in a variety of forms. For short waves, the most commonly used form of inductance is the single layer solenoid, which is nothing more nor less than the common tuning coil, consisting of a single layer of wire wound upon a cylindrical form. The method used to vary the inductance of a tuning coil is a slide which gives single turn variations or a switch which usually varies the inductance in groups of turns. For very close tuning where even the turn to turn variation is too coarse, a series or shunt in the circuit is necessary. A closer variation of inductance can be procured by splitting the number

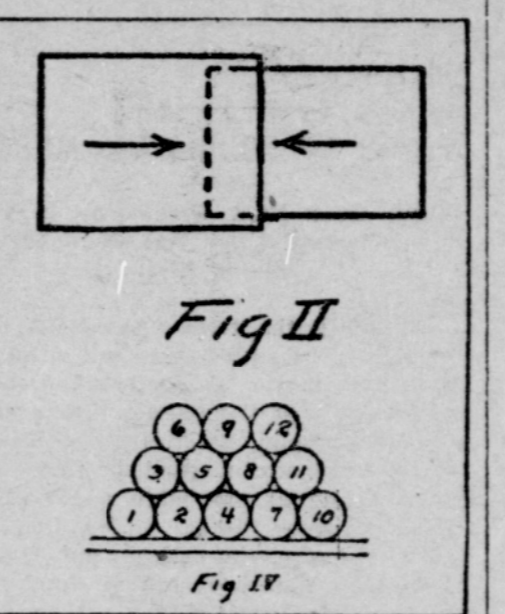


of turns in two and winding one-half on a hollow cylindrical tube, and winding the second half on a slightly smaller cylindrical tube of such size that it can easily be slid into the first one. If now, the two coils are connected in series but in such a manner that their magnetic fields interlock, a continuous variation of inductance can be had by moving the coils with respect to each other. Fig. 1 represents the tuning coil—all of the magnetic field in the same direction. Fig. 2 represents approximately the same winding as was used in Fig. 1, but wound on two concentric forms. When the two coils of Fig. 2 are separated the fields of the two coils do not react and the inductance is the sum of the separate inductances of the two individual coils. As the coils are brought closer together the field of one coil bucks

down the coil and the total inductance is decreased. Finally when the winding on the inner cylinder is exactly under the winding on the outer cylinder, the inductance of one coil neutralizes that of the other and the resultant inductance, neglecting leakage, is zero.

A variometer functions exactly as did the two coils shown in Fig. 4. In a variometer, one coil rotates with respect to the other instead of sliding in and out as was the case in Fig. 2. If the windings of a variometer are on a cylindrical surface there will be a large amount of leakage, which decreases the ratio of maximum to minimum wave length to which the variometer will tune. A variometer with windings on a spherical surface and having a small mechanical clearance between rotor and stator will give minimum leakage. There is an excellent variometer on the market at the present time with a so-called "basket" winding. Not only are the windings on a spherical surface, but a cross-section of the winding (see Fig. 3) is such that the distributed capacity is reduced to a minimum. This is accomplished by separating adjacent turns and crossing them at right angles.

This same method of winding inductances is applied to the "spider web" coils. The change in wave length when using "spider web" coils is accomplished by the use of a series of



shunt variable condensers since the coils are not as a rule provided with taps. For longer wave lengths the bank wound coil is used to reduce the distributed capacity in winding multi-layer inductances. Fig. 4 shows how the turns of three-layer bank wound inductances are arranged. The "duo-lateral" coil is an improvement over the bank wound coil. In a "duo-lateral" winding the conductors in two successive layers are not parallel as they are in the bank winding, but cross each other at an angle. In our estimation basket wound variometers with no shunted capacity are most efficient for short wave tuning while duo-lateral wound coils of large diameter, with a small amount of shunted capacity for tuning, are most efficient for long wave reception.

USEFUL "DON'TS" TO KNOW

Every One of Them Is Valuable Advice to the Amateur Radio Operator.

- Don't fail to insulate the antenna.
Don't place the lightning switch indoors.
Don't listen-in during a thunderstorm.
Don't cause interference with other stations.
Don't try to use a loud speaker with a crystal set.
Don't run wires parallel in making up receiving sets.
Don't neglect to read everything available on radio.
Don't attach ends of antenna to power or telephone poles.
Don't connect a radio set direct to the electric light circuit.
Don't forget that tickler coils are not used with crystal detector sets.
Don't expect to get loud signals with a crystal detector set while using an indoor antenna.
Don't always blame the broadcasting station. It is sometimes the fault of your own apparatus.

Annealing Hard Wire. If hard-drawn copper wire is used for connections in the rear of panels, it will break when bent or it is more sure to break upon removal from the fastening. The end of the wire may be annealed by heating it in a flame or by applying a coat of tin or solder. The wire can then be bent several times, without its breaking.

Help Tube With Magnet. The sensitivity of an audion tube sometimes may be increased by placing a large horseshoe magnet in a certain position so that the poles of the magnet are on each side of the tube. This probably is due to the magnetic effect upon the moving electrons that flow across from the filament to the plate.

Length of Aerial Wires. A single wire aerial is sufficient, if one at least 75 feet long can be put up. If the aerial is shorter, use two wires, taking the leading-in wire from the far end. If the aerial is to be only 50 feet or less over all, make it a four-wire one, and again take the leading-in wires from the far end.

Will Stop Jamming. It is proposed to increase the number of available wave lengths for broadcasting by varying some of the many 300 meter stations by 25 or more meters.

Boost with the Bellevue Boosters for irrigation.

LITTLE TALKS ON THRIFT

By S. W. STRAUS, President American Society for Thrift.

IT IS gratifying to note that the current year has proved to be the greatest era of home-building and home-ownership in the history of our country. This is important because these activities signify widespread practices of thrift.



S. W. STRAUS

The building of homes means the creation of new wealth, coming either directly or indirectly from the savings of the people. Statisticians tell us that during the year 1922 more than one billion dollars will have been utilized in the erection of homes for our people, a considerable portion of which represents new home-ownership. It is a splendid commentary on the rightful tendencies in American life. It shows right thinking and right living.

In 1920 there were 11,400,000 home owners in the United States, and this number has been greatly increased during the intervening two years. It would probably be safe to estimate that there are 13,000,000 home-owners in the United States today.

A nation which spends more than a billion dollars a year for new homes and which numbers 13,000,000 home-owners among its population, offers scant comfort for the alarmist, the Bolshevik or the pessimist.

In many ways we, as a people, are unmindful of the values that come from thrift, but the fundamentals are sound and no better proof of this can be found than in the extent of home-ownership in America and the rapid development of this phase of our national life.

Recovers from Rheumatism

"Had rheumatism five months that would go from my left knee to my back. Finally used Foley Kidney Pills and in 15 days was entirely cured," writes W. J. Oliver, Vidalia, Georgia. Backache, rheumatic pains, dull headaches, dizziness and blurred vision are symptoms of kidney disorder. Foley Kidney Pills quickly relieve kidney and bladder trouble. Sold everywhere.

Scotland's Many Islands. The islands of Scotland number about 800 altogether.

Profits Start at Once

There are no lost dividends when you put your surplus funds in our Certificates of Deposit. Interest starts the day you deposit your money.

These Certificates may be obtained in large or small denominations, and are protected by the entire resources of this institution.

The Citizens Bank of Ashland

Ashland, Oregon

In Stock

Duplicating Sales Books

WITH CARBON

Two Books 25c

Per Dozen \$1.25

Two Dozen \$2.25

One Hundred \$3.00

ASHLAND TIDINGS