STRUCTIONS FOR TROUBLE SHOOTING

Detect and Remedy the men Circuit, Short Circuit and Leakage.

do circuits are subject to the ills that the ordinary power are subject to. However, to them is not such a difficult task gight be supposed, especially if logical procedure is used.

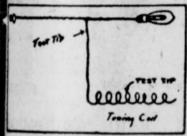
receiver is well put together in irst place and all contacts and parts gone over once in a while, is no reason why there should my trouble. But the human bes prone to err, so that for the in a while" that is liable to hapthis article will be devoted to eplanation of what might happen simple receiver and the best way

ne usual troubles of the receiver under one of the following three

-An open circuit. -A short circuit.
-Leakage.

in open circuit can most easily be ed by means of a series lamp. arly every one has available the ory 110 volt lighting circuit. Take ordinary extension cord and cut wire at any convenient place and these two ends as test clips or The extension cord is plugged the house lighting circuit at any nient outlet and when the two ends are held together the lamp light as the circuit is closed. hen the tips are held open the ciralt is "open" and the light will go

Suppose it is desired to test for an circuit in a tuning coil. Connect up to one end of the winding and ther test clip to the slider. As the



Testing the Tune Circuit.

is moved back and forth the light old remain lighted. If the light pes out at times there is an open circult in the coil. If the light goes out when the coil is jarred the slider does not make good contact with the wind-

s buzzer and battery are availthey can be used in testing for en circuit in the same way that and buzzer in series with the lips or tips and any low resist-

ground connections can be with a buzzer and battery, but use the house-lighting circuit the lighting circuit is already ed and if the other side were cted to the ground a short cirwould exist and an excessive cur-

f the ground wire is connected to water pipe, connect one test tip to ground and the other to the gas which is also grounded. The cation desired." er should buzz if one has a good resistance ground.

Leakage usually exists between the and and the ground. An antenna ld be well insulated from its sup-The lead-in should be brought n to the point where it enters the of the station in such a manner when the wind causes it to it cannot touch any grounded dal, and that rain and snow canause a path along which the cur ground. In bringing the lead



through the wall, insulate it well inside the station use as short a e of well-insulated wire as is pos

a pair of telephone receivers. he tips of the cord phone to the

ed that the leads of fine wire than B. S. Gauge No. 4 or larger, and the magnet spools to the con run said wire as directly as possible blocks do not become broken to the outside ground.

TIPS TO THE RADIOIST

The higher the aerial the stronger the signals. An increase of five to ten feet in the height of the flat top aerial will increase signals.

Addition of a variable condenser to the secondary or to the primary of a loose coupler often helps to tune out the undesired signals.

The sliders on tuning coils often make poor contacts with the slide rod. Thus much of the signal strength is lost. You can overcome this by soldering a flexible wire to the slider.

Increase length of spreaders of two, three or four-wire aerials from six to ten feet for best results. Each wire should be from four to six feet from its neighbor. Two wires one or two feet apart are no better than one wire. Likewise four wires on short spreaders are no better than one wire.

series and to check either one separately, short circuit the tips of the cord leading to the other receiver just outside of the case. Should it appear that there is an open circuit in the cord, short circuit both receivers where the cord enters the case and with a buzzer or lamp connected to the tips on the end of the cord test

for an open circuit. Care should be exercised by the operator when adjusting a crystal detector to see that his angers do not touch the surface of the crystal or the contact point of the little spring. The oil secretion that exists in the skin together with the dust that it collects will render a crystal detector inoperacause to form on the portion of the crystal surface that is touched. Should the surface of the crystal get dirty becoming weaker and weaker, try cleaning the crystal with alcohol and a little brush. Or if this does not seem to remedy the trouble, chip off old surface so that an entirely new surface is presented to the spring.

Radio Inspector Schmidt Urges That They Learn the Laws and Regulations.

Nine out of every ten radio face are good sports, but the tenth is either a fan with poor judgment or a "rotter." It is up to the amateurs to see that restrictions are not imposed upon them, by playing fair, says Radio Inspector L. R. Schmidt of the Minth

This can be done by observing cer tain cautions and by becoming posted on the radio laws and requirele copy of these regulations may be obtained from the superintendent of doc- percent interst. uments, government printing office, Washington, D. C., for 15 cents. It is Ole B. Redberg, \$400. Small tract

worth while to spend 15 cents in order in sec 7 T 5 SR 10W. to be a "square shooter" game. The great trouble with amateurs is that when they want to send a mes- to Tillamook City, Oregon.

sage around a corner they put on all the power they have with the hope for grounds because one side that some one in Texas might pick up their message. The object should be to use the minimum amount of power to get the message to its destination.

"In all circumstances, except in case of signals or radiograms relating to vessels in distress, all stations shall use the minimum amount of energy necessary to carry out any communi-

Amateurs should keep their wave length to 200 meters.

They should use a "pure wave" or, as the regulations state, "If the sending apparatus is of such a character that the energy is radiated in two or more wave lengths, more or less sharply defined, as indicated by a sensitive wave meter, the energy in no one of the lesser waves shall exceed 10 per centum of that in the greater,

The wave must be "sharp." As to this the regulations state: "At all stations the logarithmic decrement per omplete oscillation in the wave trains emitted by the transmitter shall not exceed two-tenths when sending distress signals or signals and messages relating thereto."

Amateurs frequently are at fault in calling stations too often. The law states that they can call three times, send "d e" once and sign their station call three times; but often the amateurs will send the calls a dozen or

HOW TO GROUND AN AERIAL to make good connection with the If Properly Done It Really Protects the Property From Lightning.

Generally speaking, aerials do not . If the receivers are in reason- attract lightning, but they do store up od condition a slight click will atmospherical electricity, and, of and If the response is one re- course, this condition does create r eems to be weaker than mat hazard. However, when the aerial is other, examine the disphragm property grounded it then acts as a

and see if it is bent toward the property from this electrical bazard. ece. Try tuning the diaphragm Briefly, the fire underwriters require such is the case. Be careful that the serial be grounded when no the diaphragm of a receiver is in use by a copper wire no smaller

This means that water, gas or steam If the continuity of the circuit of a pipes inside the property cannot be air of telephone receivers is checked used for a lightning ground, because to response is heard when the if ever this ground was called into tips are touched to the tongue service there is a possibility that fire checking each receiver of a double and loss of life may result. So do not use inside grounds for lightning pro-

Filings §

JUNE 3, 1922

D Y Barnett and wife to Western Loan and Bodg Co, \$1500. Lot 4 blk 8, A. A. Miller's addn to Tillamook City. Also lot 1 and east 71/2 fee, lot 2, blk 10, D. Stillwell's addn to Lincoln (now Tillamook City). Due in 81 installments monthly with 10 percent interest. Q C Deed-Rachel Weston, et-al,

o Myra Goeres, \$1.00. 5.5 | acre tract in sec 34 T 1 SR 9W. Also E1/2 of NW1/4 sec 3 T 2 SR 9W. Mortgage-Margaretha Vetsch and husband to Albert Marolf, \$2850. 30 acres and a small tract partly in the NE1/4 and NW1/4 sec 5 T 2 SR 9W. Due 2 notes \$1850 and \$1000 on or before 3 years interest at 8 percent annually.

JUNE 5, 1922 Chattel Mtg-J E Davis to Nehalem Valley Bank, \$850. Covers cows and 1 team of horses. Due on or before one year with interest at 8 percent semi-annually.

War Deed-Ora P Johnson to E noch J Johnson \$1. Tract 25x16 ft. in size at Rockaway Beach. War Deed-Clarence L. Cornell and wife to Ida Barbour \$1.00. All NE 1/4 sec 28 and NW 1/4 of NW 1/4 sec 27 T 5 SR 9W in Tillamook and

Yamhill county, Oregon.

JUNE 6, 1922 War Deed-Clarence L. Cornell & wife to Ida Barbour, \$1.00. All of NE 1/4 sec. 28 and NW 1/4 sec 27 T 5 SR 9W in Yamhill and Tillamook tive by the insulating film that it will counties, Oregon. This deed reported as June 5 should be June 6. War Deed-Werner Michel and wife to Eddie Heisel, \$2706. Lot 5 as evidenced by the received signals block 5 , Hays addn to Tillamook City, Oregon.

JUNE 7, 1922 War Deed-James A. Isbister and wife to L E Carter, \$250. Lot 16 block 4, Elmore Park.

War Deed— Estate of William H. Snyder to William J. Womelsdorf, AMATEURS SHOULD PLAY FAIR | \$50. Lot 5 blk 4, Nehalem city. Sat. Mortgage-State Land Board to H. W. Toeley, rel of mtg bk Q

Sat. Mtg-Tillamook Co. Bank to O E McAlpin, rel of mtg bk U p618. Sat. mtg.-Tillamook Co Bank to G B Lamb and wife, rl of mtg bk 2 p 308.

Sat. Mtg-J S McDonald to J E Reedy and wife, rel of mtg, bk 7 pp 101-2. Mortgage-J E Reedy and wife to

State of Oregon, soldiers bonus loan \$3000. Tract on east edge of Tillamook City. 100 x 200 feet in size. Due 28 yearly insstallments with 4 War Deed-William Redberg

War Deed-Brick Glad and wife to James N Shaw and wife \$3500.

Lot 6 blk 4, H. F. Goodspeed's addn Mortgage-James N. Shaw and

wife to State of Oregon, soldier bonus loan, \$3000. Lot 6 blk 4 H F Goodspeed addn to Tillamook City. Oregon. Due 28 yearly installments with 4 percent interest.

Roseburg to have \$15,000 library.

Corvalis Methodists planning \$100,000 church building.

Bandon promoting American Le gion and community building.

Salem-Large industrial concern withdrawing from operation of staje accident commission on account FOR RENT-51/2 First St., 2 furn of inability to compete with private insurance companies.

Portland-6 stries to cost \$500 000 to be added to Pittock block.

Contract let for \$317,751.75 to complete reclamation of 16,000 acre Tumalo irrigation project.

o spend \$60,000 in alterations of building.

CLASSIFIED AD RATES

All classified ads and readers one cent per word each issue. Such advertising should be in the Office by 10 a. m. Mondays and Thursdays preceeding publication.

Classified ads and readers may be telephoned in and charged on account.

FOR SALE

FOR SALE-Two acre tract in edge of Tillamook City. Fine eight room house, garage, and other out buildings. Inquire of Roy Woods, Beaver, Oregon. 34t8

FOR SALE-One three year old registered Guernsey bull. Also one full blooded Guernsey bull calf subject to registery. Wm. Glick, Cloverdale, phone 2p6. 32-tf

VAUGHN DRAGSAWS - HEAVY and light weights, with and without clutch. Prices reduced February 1st. E. G. Krebs. FOR SALE-17 lots in Block 3, Mil-

ler's addition to Tillamook City. Inquire of T. H. Goyne, Tillamook. Oregon, for prices. FOR SALE-Three tent frames with

floors, doors and windows. Box 133, Tillamook, or call 66J. 27-tf

FOR SALE-Six-room modern house Lot 50x150. For sale at sacrifice. Terms, apply K 110, Headlight.

FOR SALE-1921 Chevrolet touring \$500; 1918 Mitchell, fine shape, \$300; Overland 90, \$200; 1917 Chevrolet touring, \$200; 1916 \$200; 1918 Chevrolet touring, to-wit: \$325; 1917 Chevrolet touring, \$200; 1920 Ford touring, \$300; Grant Six, \$400. Tillamook Ga-33-tf rage.

FOR SALE __ 35 acres choice bottom land, new house and barn costing \$4500. For sale on easy terms. In-FOR SALE-Studebaker auto cheap,

or trade for lighter car. This car is fully equipped, bas 1922 IIcense. W. A. Southmayd. 30-tf

R. 4. FOR SALE-Light team to sell or

trade for a heaver team or good cow. Pigs for sale. J. E. SPERRY,

Barnesdale, Ore. FOR SALE-Overland truck, will haul about 1500 lbs. Enquire of Albert Johnson, Tillamook. Mu-

tual phone.

FOR SALE OR RENT-Five room house and half block of land; lo ganberries, raspberries, strawberries, also family garden planted. City water and eletric lights in house. For particulars inquire of owner on premises or write W. A. McClew, Bay City, Ore. 36-2t

FOR RENT

ished housekeeping rooms with bath, \$12 per month; 1 furnished single room \$8 per month 20tf FARM FOR RENT-14 cows, farm implements, buildings in fair shape. North of Blaine. Adam Lapin

WANTED TO BUY

Portland-Meler and Frank Co. WHEN YOU HAVE CATTLE FOR graveled sale call Ed. Hadley, Mutual phone.

NOTICE OF SHERIFF'S SALE

Notice is hereby given that the indersigned, as sheriff of Tillamook County, Oregon, by virtue of an Order of Sale and Execution issued County, Oregon, upon a judgment Court on the 31st day of May, 1922. in a cause therein pending, wherein E. J. Claussen, was plaintiff, and Ralph E. Warren and Ruth Warren, his wife, and Tillamook County Bank, a banking corporation, were and Order of Sale I am directed to Tillamook City, Oregon. sell the property hereinafter describ- Dated this May 25th, 1922. ed, to-wit:

Lot three (3) in block seven (7) 33t5 in Park Addition to the City of Tillamook, County of Tillamook, Stata of Oregon.

Now therefore, I will, on the 15th o'clock a.m., sell the above described property at public auction to the highest bidder, for cash in hand, at the Court House in Tillamook, Tillamook County, Oregon, and by said sale transfer all right, title and interest of the above named defendents in and to said property, and all the right, title and interest the said defendants had at the time of the execution of the mortgage, which said instrument was the subject of foreclosure in the above entitled suit, or at any time since said date.

Dated this 13th day of June, 1922. JOHN ASCHIM Sheriff of Tillamook County, Oregon.

Order of Sale and Execution issued hearing upon the said petition. out of the Circuit Court of Tillamook Now, therefore, you, and each of and Order of Sale rendered in said to appear in the above entitled mat-Court on the first day of May, 1922, ter on Wednesday, the 19th day of in a cause therein pending, wherein July, 1922, at 10:00 o'clock, a. m. of Nestucca Valley Bank, a corporation, said day, being the time fixed by was plaintiff, and Earl H. Fouts said order, to show cause, if any and Olga H. Fouts, husband and there be, why the following deswife, and Ina Uksila were defen- cribed real premises belonging to dants, and by which Execution and the estate of the said deceased, Ford touring, \$150; 1916 Ford Order of Sale I am directed to sell to-wit: touring \$125; 1918 Ford touring, the property hereinafter described

The East half of the Southwest quarter of Section 18 and the North- the Williamette Meridian, less tracks east quarter of the Northwest quart- sold therefrom, the land herein deser and the Lot number 14 of Section cribed containing thirty acres, more 19, in township 4 south of Range 10 or less, in Tillamook County, Oregon West of the Willamette Meridian, should not be sold at private sale, in Tillamook County, Oregon. Now therefore, I will on the 15th on, such mortgage to be assumed by

quire at this office, H108. 30-tf day of July, 1922, at the hour of the purchaser, upon such terms as mook, Tillamook County, Oregon, FOR SALE—A thorobred brown and by said sale transfer all right the petition of the sale prayed for. Swiss bull calf, seven weeks old. title and interest of the above named John Meier, Hillsboro, Oregon, defendants in and to said property, by order of the Honorable Homer the said defendants had at the time the State of Oregon, for Till of the execution of the mortgage, County, by publication thereof, once which said instrument was the sub- each week, for four successive weeks, ject of foreclosure in the above en- in the Tillamook Headlight. titled suit, or at any time since said

Dated this 13th day of June, 1922. JOHN ASCHIM

Sheriff of Tillamook County, Oregon.

Pendleton -Hotel sells for Florence-Berry crop heavy.

Tillamook, Newport and Toledo to have good road connectin.

Milton-New ice plant completed Sweet Home to have \$5,000 school

Hood River-6.8 miles Loop highvay to cost \$115,000.

building.

Rockaway-3 miles coast highway unning north to be rocked.

Mapleton-Rainrock road to be

Halsey-Shedd road being paved.

ARTIFICIAL! I DON'T

SEE WHY YOU

NOTICE TO CREDITORS

NOTICE IS HEREBY GIVEN that the undersigned has been by the county court of Tilllamook county. out of the Circuit Court of Tillamook Oregon, appointed executrix of the last will and testament of W. R. and Order of Sale rendered in said Robedee, deceased. All persons having claims against the estate of said W. R. Robedee are required to present them to the undersigned for allowance within six months from date of this notice at the office of defendants, and by which Execution Botts & Winslow, attorneys at law,

> NANCY E. ROBEDEE, Executrix.

CITATION

day of July, 1922, at the hour of ten IN THE COUNTY COURT OF THE STATE OF OREGON FOR THE COUNTY OF TILLAMOOK.

> In the matter of the estate of John Theiler, deceased, to Edmund Theil- Friday evenings of each month, at er, Emil Theiler, Caesar Theiler, Lena Bean, Wendell Bean, Barbara Bean, Lottie Tracy and A. A. Hall, guardian ad litem of Wendell Bean' and Barbara Bean:

GREETING

In the name of the State of Oregon, W. J. Riechers, executor of the last will and testament of John Theiler, deceased, having filed his petition for an order authorizing and directing him to sell certain real property belonging to the estate of the said deceased, at private sale, to pay indebtedness of said estate Notice is hereby given that the and the court having, by order made undersigned, as sheriff of Tillamook and entered herein on the 5th day of County, Oregon, by virtue of an June, 1922, fixed the time for the

County, Oregon, upon a Judgment you, are hereby cited and required

The southeast quarter of the northeast quarter of section 29, in township 2 south, range 9 west of subject to the mortgage now thereeleven o'clock a.m., sell the above the executor may deem to the best described property at public auction interest of the estate of the said deto the highest bidder, for cash in ceased, provided that not less than hand, at the Court Rouse in Tills- \$500.00 be paid at the time of the execution of contract of sale, as in

This citation is served upon you 35-t2 and all the right, title and interest Mason, Judge of the County Court of

Date of first publication: June

9th, 1922; date of last publication: July 7th, 1922.

Dated this 6th day of June, 1922. Seal of County Court.

H. S. BRIMHALL, County Clekr Bend to get new \$75,000 business

Medford-Five new buildings to be erected at county fair grounds.

Sweet Home-Oil drilling to start.

Hood River-Bids called for % miles concrete paving south of city. Portland-\$30,000 warehouse to

Eugene building permits for May total \$96,000.

be built on east side.

DR. O. L. HOHLFELD Veterinarian

Bell Phone 8F2. Mutual Phone Tillamook Oregon

BARRICK & HALL

Attorneys at Law National Building Oregon

DR. J. E. SHEARER Surgery

Suite 110 LO.O.F. Building

R. T. BOALS, M. D. Surgeon and Physician

Oregon

Lodge Directory

Silver Wave Chapter No. 18

Stated communications first and third Thursdays of each month in Masonic Hall. Visitors welcome.

CORA L. MILLER, Secretary



Marathon Lodge No. 93. Knights of Pyth ias. Regular meeting Monday evening at 7:45 sharp. By order of the Chanceller

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Corinth Relief Corps No. 54 Dept. of Oregon, meets on first and third 8 p. m., in the W. O. W. hall. Visi-

Mrs. Clarence Stanley, President Elizabeth Conover, Sec'y

Corinth Post, No. 35, Dept. of Oregon Meets on second and on fourth Saturdays of each month at 1:30 p. .m im W. O. W.

H. W. SPEAR, Adjt.

Stated Communication second Wednesday in each month Visiting Brethren welcome.

Tuesday eve., 7:30 p. m.

Chiropractic Consists entirely of ADJUSTING the movable segments of the SPINAL COLUMN to normal posttion thereby removing the CAUSE of disease

FOREST L. HOWARD CHIROPRACTOR 211-13 Tillamook Building Both Phones Adjustments will be given in the home if patient is unable to come to office.

> Light weight At

> > E. G. KREBS

H. T. Botts BOTTS & WINSLOW

Phone 76-J DR. C. H. POLLOCK, D.M.D. Dentist 215-16-17 Tillamook Bldg.

TILLAMOOK,

DAVID ROBINSON

Physician and Surgeon

National Bldg. Tillamook, Ore

Bell 121 M Mutua! TILLAMOOK IRON WORKS General machinists and black *miths

H. Sander

DR. J. G. TURNER Eye Specialist

Permanently located in Tillamook. Private office in Jenkin's jewelry store. Latest up-to-date instruments and equipment. Evenings and Sunday by appoint-

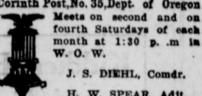
Complete Lens Grinding Factory on the Premises. Any lens duplicated.

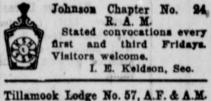
O. E. S.

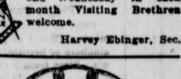


W. R. C.

tors welcome.







Rebekahs Wednesday evening Camp 2-4. Thursday

TAUGHAN DRAGSAW

Geo. P. Winslow

ALARM

jome of part of departof the o other ie fire

UNDAY

e blaze

pitched aribald' Sunday is in a a brok-Injured *pokane nd imre hard Pitcher ok team ame out

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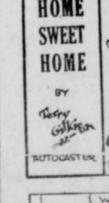
Tillamook. Oregon

To Test Telephone Cords. test the continuity of the cir-

receiver giving the weaker re lightning rod and really protects the

d set separately.

The two receivers are connected in tection.





PAINTING YOUR EYE



