

LOCAL AND PERSONAL

Off on Vacation Trip—

H. S. Alkins left yesterday on his vacation, starting out with his trusty auto for Crater Lake by the way of Lake of the Woods. He expects to visit a number of good fishing grounds before returning from the trip.

Automobile insurance a specialty. Ask Mr. A. L. Lamb. Yeo, of course. 265tf

Visiting in Ashland—

Harry Reames, of Phoenix, was in Ashland Sunday.

Good insurance at good rates. Phone 274-J. Yeo of course. 265tf

Visiting with Relatives—

Mr. and Mrs. Zider and family, from Albany, were in Ashland the first of the week, visiting relatives and old friends.

Let Jerry O'Neal figure your next job of plumbing. First class material and workmanship. Phone 138. 207 E. Main street. 233tf

Home from Klamath—

Will Hedrick, of B street, arrived home from Klamath county last week and expects to go to Douglas county this week, to visit his former home for a time.

LEEDOM makes the price on **MASON CORDS**. Come and get 'em at **LEEDOM'S TIRE HOSPITAL**. 270-tf

Will Move to Toledo—

Sherman McCoy and family, of Granite street, expect to leave Ashland on Wednesday of this week for their former home at Toledo, Or.

Fruit canning time is at hand. For fruit jars, lids, rubbers, jelly molds and sugar, Detrick's prices can't be beaten.

Helping Boy Scouts—

Hal McNair has the honor of being the first person to come to the assistance of the Boy Scouts call for help to pay the drayage expenses in taking their goods to Lake of the Woods for the annual encampment. The Women's Relief Corps was a close second, with a substantial help. Who will be the third?

Green apples—Gravenstines. Can't beat 'em for ples and sauce. 25 pounds for \$1 delivered. Phone 9-F-11.

Moves Reported—

S. F. Ward has moved from 71 Gresham street to 333 B street. The James Foxall family, who have been residing at 172 Pine street, have moved out of the city.

Locksmith. Fixit Shop. 282tf

Make Crater Lake Trip—

George Bowman and C. C. English made the trip to Crater Lake over the week-end, leaving Ashland about 9 o'clock Saturday evening and driving to Prospect by shortly after midnight, where they stayed over night. They left early Sunday morning and arrived at the lake at 8 o'clock, where they looked over the phenomenon for a few hours.

Let us contract your painting. Carson-Fowler Lumber Co. 286-10

Returns from Portland—

F. W. Herrin, of north of the city, returned home from Portland yesterday, after having spent several days there on business. You'll marvel in our array of advance styles as well as the prices we are asking. Paulserud's. 286tf

Home from Buckhorn Lodge—

Mrs. J. B. Icenhower has returned from Buckhorn lodge, where she spent a few weeks recovering from her recent illness. She is much improved in health.

Hot Weather Saps Vitality
Ironized Yeast Will Restore it Quickly

Do you feel all "dragged out"? Can't sleep? Appetite poor? Does ordinary mental or physical exertion leave you exhausted? Do you wake up feeling "all in"? These are dangerous symptoms. For they indicate that the heat is sapping your energy, strength and resistance, and leaving you easy prey for all sorts of sickness.

The thing to do, if you want to overcome fatigue, and build energy at once—is to take two Ironized Yeast tablets with each meal. Then watch the results. Before you know it that exhausted feeling will have completely disappeared. You will be able to tackle all kinds of hard work—and actually enjoy it. You will be amazed at the wonderful change it will bring. Get it today. To try Ironized Yeast entirely free simply mail postcard for Famous 3-Day Test. Address Ironized Yeast Co., Dept. 94, Atlanta, Ga. Ironized Yeast is recommended and guaranteed by all good druggists.

Is This One of Stuart's Washingtons?



Considerable discussion has been aroused among art critics over this painting, which shows George Washington with Marquis Lafayette in the background, as to the possibilities of its being the work of Gilbert C. Stuart. The picture, which is supposed to have been painted for Lafayette, is now in the possession of W. D. Bristol of Lisbon, O. It was purchased from a French family in 1840. There are many Stuart characteristics in the picture and art critics are waiting to see the result of the cleaning process before passing final judgment.

Chickens Worth Raising—

Mrs. C. A. Gray, 1372 Iowa street, had a pullet this season that began laying when four months old, and four others of the same hatch were laying when four months and two weeks old, making five early layers out of a hatch of seven pullets. They are Plymouth Rock strain.

Carl Loveland is the official piano tuner for Madame Tracy-Young. Ask her. Studio 135 E. Main. Phone 465. 286tf

Returns from Frisco—

H. B. Plummer returned from San Francisco the first of the week, having left his wife resting well after her operation.

This season you can't duplicate our values anywhere. Paulserud's. 286tf

Hotel Has Full House—

The Hotel Ashland reports having had a full house Sunday night, with quite a number turned away. That hostelry accommodated 63 guests over night, with every room filled.

Spend less and dress better by buying your fall suit at Paulserud's. 286tf

Buys New Cars—

The Class A garage reports the sale of a new Essex to E. W. Garard and a new Hudson speedster to William Roberts.

Returns from Portland—

F. W. Herrin, of north of the city, returned home from Portland yesterday, after having spent several days there on business.

You'll marvel in our array of advance styles as well as the prices we are asking. Paulserud's. 286tf

To Attend Bar Association—

W. M. Briggs left this morning for San Francisco to attend the American Bar association meeting at that city this week. He expects to return home Saturday.

Expert piano tuning. Carl Loveland, studio at 135 E. Main. Phone 465. 286tf

Gives String Bean Party—

Pauline and Edith Plummer entertained a number of their young friends last evening at a string bean party.

It will pay you to let us figure on your next job of painting. Carson-Fowler Lumber Co. 286-2

Make Trip to Lake—

Mr. and Mrs. F. E. French were visitors at Lake of the Woods the first of the week.

Dance, Jackson Hot Springs, Wednesday evening, August 9. Talent Community Club. Tickets, \$1 plus 16 cents war tax. 285-sat-tu-w

Motor from Eugene—

Oscar Cooper and wife, from Eugene, are visiting relatives and friends in Ashland this week. The Coopers motored in from Eugene on Saturday.

THIS IS THE MONTH

To plug watermelons. To kill weeds and sprouts. To gather your living from the garden.

To put the engine and cutter in order for silo filling.

To make the last hard drive against all bugs and fungous pests.

To set out strawberries. Plants set this month will bear well next spring.

To break wheat ground and allow the seed bed to pulverize and pack the moisture before seeding.

To give the hen house and coops another coat of whitewash. Mites, lice and disease germs can be more easily controlled.

To cut the old canes in the blackberry and raspberry patches while they can be easily distinguished from new shoots.

To keep fresh water for the pigs. A hog is not far-distant relative of the hippopotamus, and likewise he needs his cooling bath.—Farm Life.

THAT DULL ACHING

Don't worry and complain about a bad back. Get rid of it! For weak kidneys, lame and aching backs, your neighbors recommend Doan's Kidney Pills. Ask your neighbor.

Mrs. C. M. Wilcox, 152 Helman St., Ashland, says: "Doan's Kidney pills helped me wonderfully and I gladly recommend them to others. My kidneys troubled me a lot and I suffered with dull, nagging back-aches, and such pains over my kidneys I could hardly keep going. I was hardly ever free from dizziness or headaches and my kidneys didn't act right. I used Doan's Kidney Pills and they soon rid me of the complaint."

Price 60c, at all dealers. Don't simply ask for a kidney remedy—get Doan's Kidney Pills—the same that Mrs. Wilcox had. Foster-Milburn Co., Mfrs., Buffalo, N. Y.

RIDE PILLION ON MOTORCYCLE

Fair Riders Said to Be Deserting Saddle Horses for the Faster-Gaited Machine.

Have you seen the "pillion girl"? Not the demure, coy and shrinking maiden of years gone by, who rode "side-saddle" behind her swain on horseback, but the rollicking, daredevil knickered girl of today, perched precariously astride the extra seat on a motorcycle, bowing along the road at a 40-mile-an-hour clip.

Despite the wide dissimilarity in the style of riding, the name has persisted in England and the "pillion girls" have become so numerous in that country that recently the department on taxation and regulation of road vehicles sat in solemn conclave to decide whether the "pillion girl" is a source of danger to the general public, the New York Sun states.

It is not clear whether "general public" includes the pillion girl herself, or whether the term comprises merely the motorists of the opposite sex whose eyes are unaccountably distracted from the road by the sight of a pretty girl on the rear seat of a motorcycle, flaunting graceful, silk-clad legs, her hair flying in the wind.

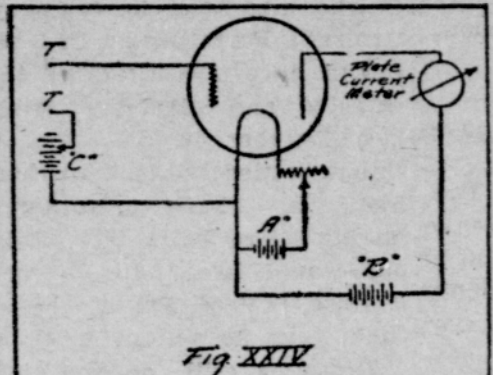
In any event, the committee reports there is no appreciable amount of evidence to indicate that the practice is a source of danger to the general public. They are of the opinion that no case has been made out sufficiently strong to justify the prohibition of the practice.

On this side of the Atlantic the "pillion girl" is apparently safe from molestation. In fact, each year sees an increasing number of women operating their own motorcycles.

RADIO
ALL ABOUT VACUUM TUBE AS AMPLIFIER

Connected Up to Furnish Rated Filament Current and Maintain Plate Potential.

Figure XXIV shows a three-electrode vacuum tube connected with the "A" battery to furnish the rated filament current and a "B" battery to maintain rated plate potential. In the plate circuit is a current meter to



read the plate current. A "C" battery is connected in the grid circuit to maintain the grid at the positive potential 0-A in order to have the tube operate at the point A on the characteristic curve. To T-T will be connected the alternating difference of potential having a maximum positive value equal to A-C and a maximum negative value equal to A-B.

The resulting variation in plate current is shown in Fig. XXV. Inserting the tube functioning as an amplifier, with an amplification fac-

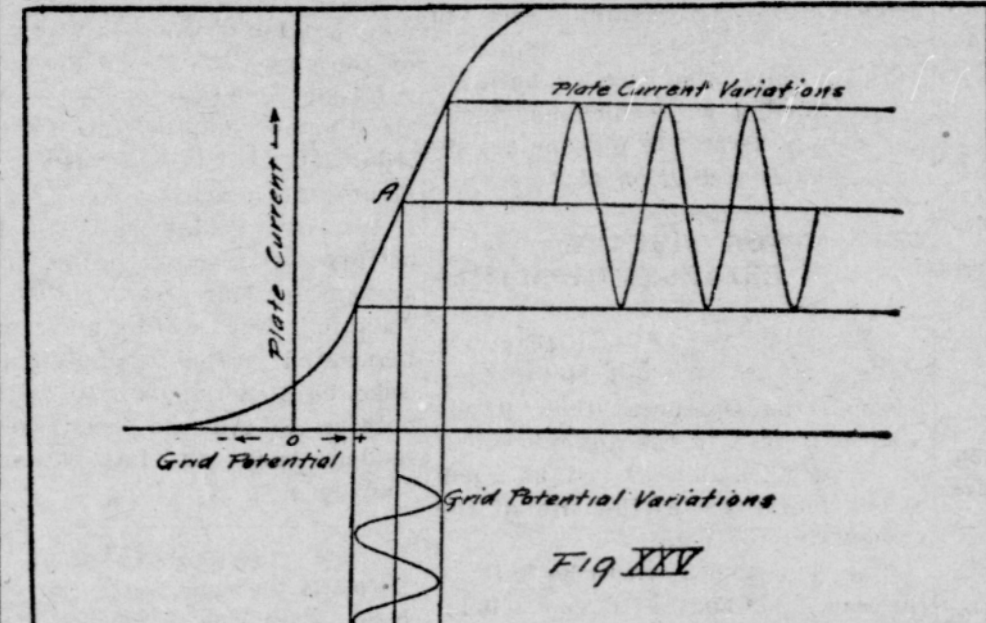


Fig. XXV

tor of K, between the supply of alternating difference of potential at T-T, was just K times what it actually is.

All these considerations have been based on the assumption that the total impedance (resistance to the flow of an alternating current) of the entire plate circuit existed internally in the tube, between the filament and the plate, and that the external electrical circuit from the plate to the filament had zero impedance. Of course, this condition never exists in practice. The external plate circuit always has impedance in it in the form of telephone receivers, resistance choke coils, or transformer primaries, depending upon the means that is employed to couple the successive tubes together.

It is only where the external plate circuit of a vacuum tube has zero impedance that the plate voltage is equal to that of the "B" battery. As soon as an impedance is introduced into the external plate circuit, part of the total potential of the "B" exists as a drop across the external impedance, so that only a portion of the total "B" battery is available at the plate.

Fig. XXVI represents the characteristic curve of the tube as we have been discussing it, with no impedance in the external plate circuit. This curve is called the "static" characteristic curve, to differentiate from the others. Suppose that we introduce into the external plate circuit an impedance in the form of a resistance as shown by R in Fig. XXVII. When the current flows around

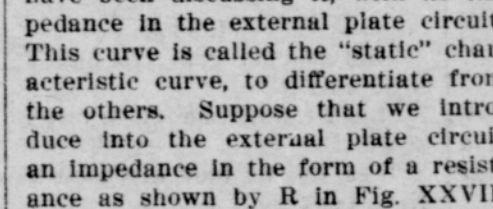


Fig. XXVII

through the plate circuit, there will be a voltage drop across the resistance R equal in value to R times I, where I is the plate current in amperes. If the internal impedance of the tube be denoted by Z, then the drop in voltage from the plate to the filament inside of the tube is ZI. The sum of these two voltage drops, ZI plus RI, is always equal to the applied voltage of the "B" or plate circuit battery. The voltage of the "B" battery is constant.

As the plate current increases, the value of RI increases because R, the external plate resistance, does not change in value. So if the sum of ZI plus RI is always equal to a constant

when RI increases, ZI must decrease. This means that when a constant "B" battery potential is applied to the plate circuit of a vacuum tube, containing external resistance, an increase in plate current causes a decrease in the potential existing between the plate and the filament.

The "static" characteristic curve was drawn on the assumption that the difference in potential between the plate and the filament remained constant, obviously then, when the external plate circuit has other than zero impedance, the static characteristic curve no longer holds true.

The characteristic curve of a tube having other than zero impedance in the external plate circuit is the "dynamic" characteristic. The greater the variations in plate current, the greater the variation in the voltage existing between the plate and the filament. If the value of R, the external plate impedance, is increased, the greater will be the variation in the plate to filament voltage for the same variation in plate current.

In Fig. XXVI (2) is represented the dynamic characteristic of a tube with a certain definite value of R in the plate circuit. Curve (3) represents the dynamic characteristic of the same tube with a larger value of R in the plate circuit. Finally the extreme condition is reached, in which R is made infinitely high and the dynamic characteristic becomes parallel to the grid voltage axis as in (4). This shows that variations of grid potential would produce no variation of plate current, but maximum variations of plate variations of plate potential. These would be amplified variations of grid potential variations.

This last condition of having the variations of plate potential amplified variations of grid potential variations is the ideal condition sought for in vacuum tube amplifiers.

In Fig. XXVII as the current of

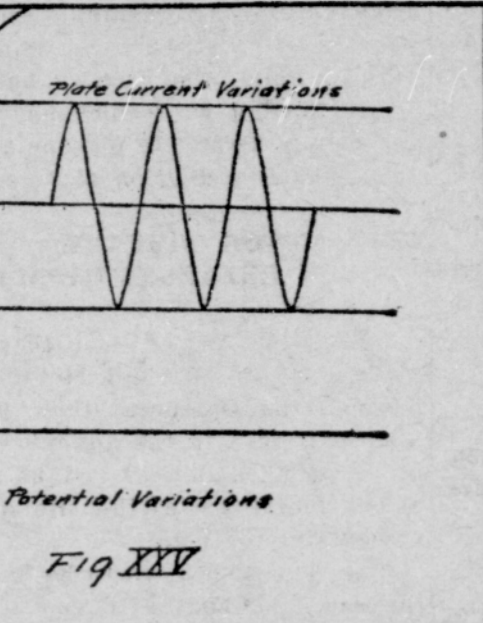


Fig. XXVII

To amplify a signal from a radio receiver then, it is only necessary to

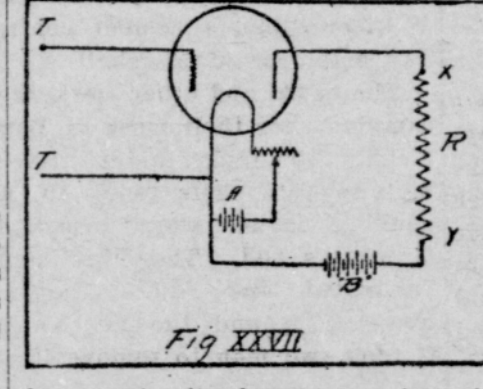


Fig. XXVII

SPARKS

The "Totemites," a society of radio fans at Seattle, decided that receiving code signals during broadcast programs is inevitable, and instead of registering complaints, opened a free school to its members for instruction in the code.

People living in isolated sections are getting great satisfaction from radio, as it is a cure for loneliness. They not only feel that they have friends within "speaking distance" but that entertainers of the highest grade are next door neighbors.

Major General Squire, chief signal officer, U. S. A., told the graduates of the Camp Vail signal school there had been great developments in radio in the past decade than in any other science. Also that in future wars barrages and bombardments would be laid down by radio.

The British have developed a two-purpose vacuum tube for use in conjunction with radio. The new tube, or valve, as it is called in England, is the Mullard Ora. The plate voltage is given as 30, and the filament voltage at 3.6 to 4. The base of the tube is of the four-prong type. It is said to combine efficiently the qualities of the rectifier and amplifier, which make it possible to use one tube for all purposes.

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WANTED—On ranch near Klamath Falls, woman for general housework. Good home, four in family. Phone Klamath Falls 11F12. Box 536.

MEN AND BOYS WANTED—For sash and door cut-up plant, box shoo factory. Wages \$3.50 to \$6 per day. Room and board \$1.21 per day. Steam heated buildings, shower baths, modern conveniences, club house. New plant, population 3000. Accommodations for families. Steady employment. Address Fruit Growers Supply Co., Susanville, Calif. 281-4-tu-sat

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DR. J. J. EMMENS—Physician and Surgeon. Practice limited to eye, ear, nose and throat. Glasses supplied. Oculist and aurist for S. P. R. Offices, M. F. and H. Bldg., Medford, Ore. Phone 567

DR. MATTIE B. SHAW—Special attention to mothers and children. Internal secretions and endocrine glands. Res. and office, 108 Pioneer avenue. Telephone 28. Office hours, 11 to 12 a. m.; 2 to 6 p. m.

CHIROPRACTORS.
DR. MAUD INGERSOLL HAWLEY—Visiting Chiropractic Physician. Neuritis cases a specialty. Phone 118-J. Treatment given only in your own home.

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

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The Ashland Conservatory of Music opens September 5th, 1922. Madame Tracey-Young, directress. The school of daily instruction in all branches of music. The Leschetitzky method. The secretary will be pleased to supply any information desired. Address Box 54, Ashland, Oregon. 280-1m*

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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. 281tf

FOR RENT.
APARTMENTS—Furnished, close in, modern conveniences. Adults only. Inquire 166 Hargadine St., or phone 122. 287-tf

FOR RENT—Nicely furnished four-room apartment in private family. Adult couple preferred. Also six room house close in. S. L. Allen. 285-tf

FOR RENT—Housekeeping apartments, down stairs. 573 E. Main St. 268-3*

FOR SALE.
HAY FOR SALE—By G. F. Billings.

FOR SALE—Acreage on paved highway, splendid soil. Five acres, 10 acres, 15 acres, 20 acres, and the price is right. O. A. Manning, Talent, Oregon. 272tf

GREEN APPLES—Gravenstines. Can't beat 'em for ples and sauce. 25 pounds for \$1 delivered. Phone 9-F-11.

FOR SALE—Player piano, good condition. N. G. Coleman, 361 Mountain Ave. 280tf

FOR SALE—On the highway, about one acre of land, good house, electric lights, all in garden, some berries. Price \$1600. O. A. Manning, Talent, Or. 281tf

FOR SALE—Astrakhan and Transparent apples. Kieckson and Santa Rosa plums. Bagley Ranch, Talent, Oregon. 284-6

FOR SALE—Cheap, piano in first class condition. Carl H. Loveland, 135 E. Main or phone 465. 268tf

At Once
SEE US NOW ABOUT YOUR FIRE INSURANCE

Procrastination in taking out fire insurance has robbed many a man of his entire property. Don't be caught unprepared by the fire fiend. Your home, your business, your crops, your automobile have a very real money value.

No property is secure against destruction by fire. Let us tell you how little it will cost to fully protect you.

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Waldport cannery to run this season.