LOCAL AND PERSONAL

Visiting With Friends-

Esther Burlingame of Portland is visiting at the home of Mrs. John Callahan on C street.

Let Jerry O'Neal figure your next job of plumbing. First class material and workmanship. Phone 138. 238tf 207 E. Main street.

Recovering From Illness-

Mrs. B. F. Hatch of 218 Granite street is recovering from a serious sick spell and is able to be out of doors again.

Trade your old tires in and buy MASON CORDS at LEEDOM'S TIRE HOSPITAL.

Leaves for Home-

Frank Harris, who has been visiting with his sister, Mrs. B. R. Greer, for the past few days, left for his home in Kansas City, Mo., yester-

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

Visits in Ashland-

Mr. and Mrs. John Goodfellow of Grinnell, Iowa, made a short visit with the W. H. Day family last week.

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

Former Resident Visits-

Mr. and Mrs. C. A. Hitchcock of Jefferson, Ohio, are visiting in Ashland after an absence of 20 years. Mr. Hitchcock was superintendent of the local schools while here but is now practicing law in his home

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

Visits Camp on Dead Indian-

Miss Enice Grubb spent the latter part of the week at Ice House lake, where the Beechler Danford family are camping. Miss Grubb rode out to the camp on her horse Thursday evening after work and returned home yesterday evening. Mr. Danford is engaged in cutting wood near his camp and will be there for several weeks.

Stopping in Ashland-

F. A. Sachi and family and Ed Brown of Marshfield, Ore., are stopping in the city for a few days. Mr. Sachi makes an annual trip to Ashland and spends a week or ten days in the camp ground and considers it good enough vacation for anybody. Mr. Brown is stopping at the Hotel Ashland and is taking sulphur baths and drinking Lithia water, having came here for the benefit of his health.

RUINED HER HUBBY'S SWORD

Princess Mary Used Weapon of Vis count Lascelles to Cut Open Her Wedding Cake.

Viscount Lascelle's sword might do henceforth for a can opener, but as a weapon it is probably out of business for good. Princess Mary used it at the wedding breakfast to cut a London wedding cake. We need no further account of its condition. It is ruined. No temper of Damascus could emerge from such a test other than a bent and hacked-up thing, unfit for further service except splitting shakes, or perhaps taking up carpets.

Prince Henry offered to get a hatchet, but the bride, with that pretty persistence in destruction which sometimes impels the sweetest of women to dig out a jammed washbowl plug with her husband's razor, rejected it and sacrificed the sword. Anticipating the wreckage that was about to ensue the duke of York suggested a Lewis gun for the job, but the lady went ahead, and strewed the plain with crumbs and chips.

The devastation must have been awful. We can think of but one parallel to that chaotic scene, and that occurred when J. D. Galloway returned from overseas, where he had been serving as a major, and was made to serve a cake at a certain club dinner. He fell upon that cake as though it had been a platoon of Prussians, and soon had it beaten, butchered, routed and dispersed all over his end of the table. Whereupon O. K. Cushing remarked:

"I understand for the first time in the Argonaut.

To "Wash Pa."

Many years ago, a teacher in the Indianapolis public schools, who is now widely known in club work, recelved the following excuse from a child in a poor district:

"Dear Teacher-Please excuse Mary's absence, she had to stay home to help her Ma wash her Pa."

"The signature, "her Pa," so written, changed what he wished to say

It is said the Koreans made gunpowder as far back as 200 B. C.

VACUUM TUBE WHEN

Radio Frequency or Audio Frequency.

venient for reference.

difference was applied to the grid, tube acted as a rectifier. In addition cause of the saturation of the tube to rectifying, the tube also amplified. The variation in plate circuit was "K." where "K" is the amplification constant of the tube, times what it would have been in a two-electrode tube, for the same potential impressed on the

By properly adjusting the electrical constants of the circuits associated with a three-electrode tube, symmetri-

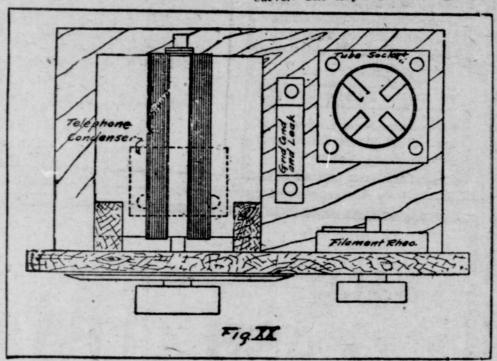
traight line, then C-D will equal B. or so long as the working range alls within straight line portion of he characteristic curve, symmetrical hanges in grid potential will cause

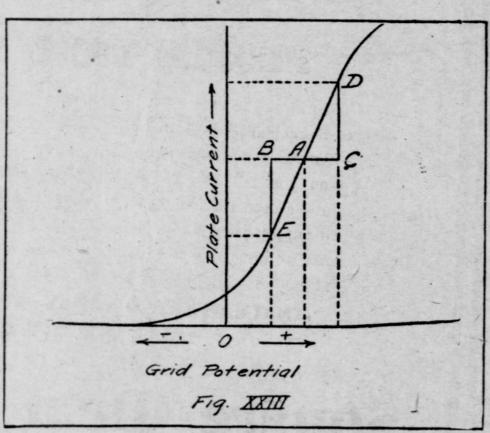
ymmetrical changes in plate current. From this it can be seen that if the working point "A" be selected near the bend of the characteristic curve. USED AS AMPLIFIER the bend of the characteristic curve. will not cause symmetrical changes in plate current. Since the plate current It Will Function Thus for Either variation in such case would bear only slight relation to the grid variation in potential, the output of the tube would be distorted.

In applying ampitfiers to receiving Starting today we shall give a de- sets used to pick radiophone stations. tailed description of the vacuum tube distortion is one of the greatest difwhen used as an amplifier. This series, ficulties to overcome. Too strong as in the past, is continuous and if signals will result in decreased amclipped out and saved will be con-plification. In Figure 23, if the applied variation in grid potential were When the three-electrode vacuum 10 times that shown in the example. tube was used as a detector, the cir- the plate current would not change cuits associated with it were such 10 times as much, because of the that where a symmetrical alternating bends in the curve, due to saturation Finally, a condition can be reached a symmetrical change in plate current where the use of an amplifier tube resulted. That is to say, the vacuum will decrease the signal strength be-

The rectified incoming signals would be louder without the use of the amplifler tube, because of the inability of the plate current of the tube caused by saturation to increase in propertion to the signal strength.

There are, in general, two factors that can be taken from the characteristic curve and the second is the length of the straight portion of the curve. The slope of the straight por





cal variations of grid potential can be receiver the received signals will approperly without distortion. pear to be "K" times as strong as they actually are and so the apparent strength of the incoming signal is multiplied by "K" for each additional tube added to the receiver circuit.

A vacuum tube used in conjunction with a circuit that will cause the plate current to vary in exact proportion to the applied grid voltage, but apparently caused by "K" times the actual grid voltage variation, is called an amplifier. If the tube functioning as an amplifier is used to amplify the incoming signal at radio frequency before it is rectified by the detector, it is termed a radio frequency amplifier. If the tube functioning as an amplifier is used after the incoming radio frequency has been rectified by the detector, it is termed an audio frequency

Returning again to the characteristic curve of the three-electrode vacuum tube, shown in Figure 23, notice its shape. Suppose that a posmy life what is meant by the old litive potential was applied to the phrase, 'the officer's 'mess.' "-From grid by means of a "C" battery so that the tube would function at a point represented by "A" on the characteristic curve. If now the applied grid potential from the "C" battery be reduced by an amount represented by A-B in Figure 23 the corresponding reduction in plate current will be represented by B-E. On the other fland if the grid potential be increased by an amount repre sented by A-C, where A-C equals B-C, the corresponding increase in plate

> current is C-D. If the portion of the characteristic curve in the region of E-A-D is a

made to-produce symmetrical varia- tion of the curve determines the amtion in plate current, which are "K" plification of the tube. The more times the amplitude of the plate cir. nearly vertical the straight portion cuit variations of a similar two-electof the curve is, the greater will be trode value with the same applied the change in plate current for a grid potential. This means that if a given change in grid potential, or in three-electrode value be used in the other words, the louder will be the proper circuits in a radio receiver, the response in the telephone receivers signals can be made to appear as corresponding to a given received though the received signal is "K" signal." The length of the straight times as strong as it actually is. If portion of the curve determines the two tubes are used with their proper maximum variation in grid potential circuits in conjunction with a radio that will cause the tube to function

TIPS TO RADIOISTS

At Muncie, Ind., bacon was fried by means of a radio current. At last an explanation for that "frying" noise.

Gifford Pinchot, nominated for governor of Pennsylvania by the vote of the people, acknowledges his great indebtedness to the radio. A primary coil no doubt played an important part.

An inventor of Chicago claims to have invented radio apparatus that permits of successful communication with the spirits. We hope that the anti-prohibitionists will not misinterpret this claim.

The police department of Portland, Ore., has asked for an appropriation for radio receiving and broadcasting stations and to equip the police automobiles with radio apparatus. Copper wire, it is needless to say, will be used.

Lord Northcliffe, famous English editor, in speaking of the future of journalism, recently predicted that radio would have an effect upon the publication of newspapers that will equal the invention of the linotype and high-speed press. He said that radio would undoubtedly come into general use of newspapers and newsgathefing agen-

Try the Classified Columns.

TRAP FOR DRY AGENTS



Miss Edna O'Dea of the prohibition office, bureau of internal revenue, photographed with a large bear trap which was captured by Federal Prohibition Agent D. J. Gantt near Etowah. Ga. The trap was set near a still to catch the first prohibition agent who came around.

Family Did Full War Duty.

Joseph Jacobsen, a former service man of the United States army, since falling in an army airplane at Towers, France, in May, 1918, has been in ten hospitals, four since the first of this year. Seven Jacobsen brothers served in the World war, and were contenders for the championship for the largest number of a single family in the service.

Maimed but Good Swimmers. Swimming is quite easy, and is even beneficial for these men who have lost a limb, especially in salt water, which seems to benefit the maimed limb. At a swimming match organized at Brighton for so-called disabled men, 16 competitors entered the water. Ten of these had lost one leg, three were minus an arm, and the

remaining three had no legs at all. The course was from the Palace pier to the West pier, and 15 of the 166 competitors covered the whole distance, roughly three-quarters of a mile. The one who failed had to leave the water half-way owing to cramps in the stump.

"It was perhaps the most remarkable swim that has ever taken place in history," comments the author of "The Handbook for the Limbless," from which the above facts are taken.

(O.) man employed the services of

five circus elephants to act as test load, relates Popular Mechanics Maga-

zine. They were led upon the floor

and grouped as c'osely as possible,

making a live load of more than fif-

teen tons on the center of the floor-

probably the first of this unusual de-

scription to be used for such a pur-

Well, It Does in a Way.

was entertaining a South American

delegate during the recent Pan-Ameri-

can woman's convention, said to her

guest, "I'm afraid my knowledge of

Spanish is very limited; in fact, I

"And what are they?" inquired the

"'Manana,' meaning tomorrow, and

know only two words,"

'pajama,' night."

A Washington society woman who

pose

Elephants Test a Floor. Effective Diplomatic Wishing to determine the strength of his garage floor, a Canton

ASHLAND REALTY CO.

ASOP'S

THE FASHIONABLE FOX

Caught in a trap along his trail
The fox broke loose, but lost his tail.
To mask his shame he cried, "I hear
That tails aren't being worn this year
And if in fashion you would shine
You'll bob your tails the same as mine!"
An old fox said to him "Tush, tush!"
I guess if you'd retained your house.

I guess if you'd retained your brush, You wouldn't talk this kind of guff.

-And there's the moral, plain enough!

Venida Hair

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Single and Double

Mesh

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Glasses

A Good Variety in Styles and

Prices

40 CENTS AND UP

Opposite City Hall

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Safety blades resharpened like new. Single bit, 30c doz. Dobule bit, 60c doz

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Cool Kitchens for Hot Days

A New Perfection Oil Cook Stove in your kitchen will assure a cool and pleasant kitchen in the hottest weather. The New Perfection Stove is a tested, guaranteed product, and will do all the work of your wood range without heating the kitchen. Cooks as fast as gas and is absolutely reliable. We have them in two, three and four burners. Come in and let us show you the numerous features that make them the best stove for summer use.

SIMPSON'S HARDWARE 37-39 North Main St.

Seeds of Success

From some of the smallest seeds you sow in your garden, come the most valuable plants and fragrant flowers.

In much the same way the small sums you deposit with us grow increasingly valuable.

Open a thrift account with us and sow the seeds of success.

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One cent the word each time. FOR EXCHANGE

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acreage; prefer no house, but

would ensider acreage with smal'

house. Eleanor Greer, 199 Gran.

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MEN WANTED

for service as railroad machinists.

ians, sheetmetal workers, pipe fit-

classes

UNDER STRIKE CONDITIONS

BEST EXPLAINED BY CHAIRMAN

BEN W. HOOPER OF THE UNITED

STATES RAILROAD LABOR

BOARD IN HIS STATEMENT OF

"In this case the conflict is not

between the employer and the op-

pressed employes. The people of this

country, through an act of congress,

signed by President Wi'son, estab-

lished a tribunal to decide such dis-

putes over wages and working con-

ditions, which are submitted to it in

of this tribunal against which the

"Regardless of any question of the

right of the men to strike, the men

who take the strikers' places are

merely accepting the wages and

working conditions prescribed by a

government tribunal and are per-

forming a public service. They are

not accepting the wages and work-

ing conditions which an employer is

public sentiment and full govern-

ment power will protect the men

who remain in their positions and

Adequate provisions have been

made for the full protection of a'l

new employes, the same as old em-

ployes who have remained loyally at

the office of the superintendent at

Portland (Union station-, or to the

assistant superintendent at Rose-

ment Southern Pacific Company.

INTERURBAN AUTOCAR CO.

(Effective January 1, 1922)

Daily (Except Sunday)

Sunday Schedule

Leave Medford for Ashland and

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ASHLAND-ROSEBURG STAGE

Travel by stage; shortest route by

20 miles; one of Oregon's most

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\$4.15; Grants Pass-Roseburg, \$3.00.

MEDFORD-GRANTS PASS

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Office and waiting room--No. 5

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today for the spraying of your

Fencing, Mowers, Rakes and

Binders and their repairs. All

Peil's Corner

kinds of Sewing Machines.

Bonbonniere, phone 160.

then 6:30 p. m. and 9:30 p. m.

LV. MEDFORD

8:00 a. m.

9:00 a. m.

10:00 a. m.

11:00 a. m.

12:00 noon

1:00 p. m.

2:00 p. m.

3:00 p. m.

4:00 p. m.

5:00 p. m.

6:00 p. m.

7:00 p. m.

9:30 p. m.

Pharmacy.

7:00 a m.

12:00 noon

LV. ASHLAND

LV. MEDFORD

7:45 a. m.

1:00 p. m.

4:45 p. m.

10:00 a. m.

4:30 p. m.

8:30 p. m. Sat. only

J. H. DYER.

R. E. KELLY,

Company.

LV. ASHLAND

7:00 a. m.

8:00 a. m.

9:00 a. m.

10:00 a. m.

12:00 noon

1:00 p. m.

2:00 p. m.

3:00 p. m.

4:00 p. m.

5:00 p. m.

6:00 p. m.

2:00 p. m.

7:30 a. m.

1:00 p. m.

5:30 p. m.

10:00 a. m.

new men who may come in."

shop crafts are striking.

ite St.

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JULY 1ST, READING AS FOLLOWS FOR prompt and careful service, auto trucks or horse drays, call Whittle Transfer Co. Phone 117. Office, 89 Oak street near Hotel

Ashland. T. L. POWE L-GENERAL TRANS FER - Good team and motortrucks. Good service at a reason-

able price. Phone 83. a proper manner. It is the decision ADAMS TRANSFER - Wood and

storage. Phone 460.

LOST.

LOST-Three keys attached, in or near sulphur grotto, Lithia park, Please return to Tidings office. Reward. 267-2*

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trying to impose. For this reason FOR RENT-Clean, cool rooms, single or housekeeping, 72 North Main St.

> APARTMENTS - Furnished, close in, modern conveniences. Adults only. Inquire 166 Hargadine St., or phone 122.

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General Manager Southern Pacific WANTED-Feeder hogs, from 70 to 140 pounds. Phone 4F13. 263-6

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Representative Executive Depart-HAY FOR SALE-By G. F. Billings. FOR SALE-Overland 90 in fine shape, bedrock price. See J. H.

McKenzie at Mack's Garage. 266-6 FOR SALE-Quick, 12 acres terrace property, seven block from P. O., two blocks Lithia park, improvements worth over \$4000. Price

\$1650. P. O. Box 463. 254-1mo* 11:00 a. m. FOR SALE-Quick, 12 acres terrace property, five room house, barn, chicken house, one acre grapes, % acre apples, % acre peaches, 34 acre cherries, wood lot, seven blocks from P. O., two blocks of Lithia Park, improvements worth over \$4000. Price \$1650. P. O.

7:00 p. m. Box 463. 254-1mo* 8:30 p. m. FOR SALE-40 acres wood land, 9:30 p. m. 16:30 p. m. Sat. only 10:30 p. m. cheap. Three miles from city. See

owner, 896 Boulevard. 262-18* HEMSTITCHING and Picoting Attachment. Fits any sewing machine. Price \$2. Economy Sales Company, Medford, Or.

Ashland waiting room-East Side FOR SALE - Six room modern house, close in. Terms. 63 Daily (Except Sunday) SHLAND LV. ROSEBURG Gresham St. 8:30 a. m. FOR SALE-One large ice box, for

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Shasta Restaurant. FOR SALE-Very accurate, new, all steel mitre box, 28x5 saw. Also tool grinder. J. D. Hoag, phone

FOR SALE-Most remarkable offer of the year. Must sell at once fine LV. G'T'S PASS home, two highly improved lots, furniture if desired. 595 Roca St.

Phone 368-J. FOR SALE-Jersey cow, freshens

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