Fifteen Minutes of Radio Each Day

By Edward N. David, formerly technical electrical expert for the U. S. Government.)

their own details of construction,

give the required plate voltage. This

type of plate battery has the advantage

of being capable of recharging a feature

not present in the "B" battery of the

dry cell block type. The dry cell plate

battery however, will render good service

for from six months to a year or more

dependent upon the time actually in use.

"A" in "Deportment."

Radio Music From Steel Stack.

Lesson No. 52. THE WAVE METER.

One of the most important instruments back or "ticklet " coil in the case of reexperimenters is the wave meter. The name itself indicates that the wave meter needed to the plate, no signals being Dallas third nine baseball team, comether wave to which a receiving set is communitied by the filament of a team,

In a given oscillating circuit, that is, a circuit containing inductance and capacity in which oscillations occur as a recity in which oscillations occur as a recity in which oscillations occur as a result of the discharge of the condenser through the inductance coil, the size of the condenser and the size of the inductance coil determine the frequency with which the condenser discharges through the dreuit, If we know the frequency of the current flowing in a circuit we may determine the various of plate current, a other words, a small change in the voltage impressed.

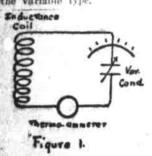
Gaston's Red Cross drive is now on in Dallas and the following organization of completed to canvass the town; charman for the way, charman for the Monarch Mill, Miss Lela Roberts for good. I would neither sleep or eat with safe faction. I was badly runging the Monarch Mill, Miss Lela Roberts faction. I was badly runging with severy mouthful I are the Monarch Mill, Miss Fan the Greek down every mouthful I are the following organization for good. I would neither sleep or eat with safe faction. I was badly runging with severy mouthful I are the Monarch Mill, Miss Fan the Greek down every mouthful I are the flowing in a circuit we may determine the green of the current flowing in a circuit we may a small change in the voltage impressed.

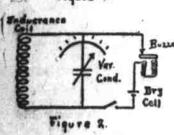
Miss Law, the county Red Cross nurse.

Miss Law, the county Red Cross nurse.

the combination of these two clements giving a total voltage for the block of resulting in a circuit of known frequency or known wave length. If either the tage is sufficient for the satisfactory operductence or capacity the shorter the form of sockets connected to each cell of where. In the cities its name efficiency wavelength,

In most wave meters the indicatance ed giving variations in voltage from one here. is of the variable type.





The Wave Merer

The wavelengths for the different settings of the condenser may be marked directly on the condenser scale or the scale may be marked only in degrees and the wave length obtained from a chart. This chart shows the values of wave the band and it is believed that wireless lengths corresponding to the condenser nettings in the form of a graph,

condenser and and a thermoam-meter.

This type of wave meter is useful in and musical airs of a nearby radio contribution stations the thermo.

Wires apparently operated as a contribution of the first and musical airs of a nearby radio contribution of the force of the following stations and musical airs of a nearby radio contribution. ammeter being used to show when the wave meter is adjusted to the same wave length as the circuit under measurement.

Figure 2 shows a wave meter consisting of a fixed inductance coil and a variable condenser with a buzzer and single dry cell for setting up oscillations in the wave meter. This type of wave meter is useful in determing the wavelength of a receiving system for a particular ad-

In determining the wavelength of a transmitting station the transmitter is placed in operation and the wave meter shown in Figure 1 brought within a few feet of the ground lead. The condenser is varied until maximum deflection is noted on the thermo-numeter which means that the wave meter is adjusted : resonance, i. e., the same wave length as the transmitter. The desired wave length is then read from the condense scale or from the chart provided for that purpose. This method may be employed in tuning either spark transmitters or continuous wave transmitters and is preferable to the audibility method some

times used.

In determining the wavelength to which a receiving system is adjusted the wave meter shown in Figure 2 is brought close to the ground lead at a point re mote from the receiving set itself. With the receiver adjusted to the incoming sig nal the buzzer of the wave meter is into operation and the condenser of the wave meter varied until the maximum sound from the buzzer is heard in the telephones, which indicates that resonance has been obtained. The desired wavelength is then rend from the chart provided with the wave meter for that pur-

Radio Signals Received On A Motor

The special radio concert broadcasted from Schenectady for the entertainment of the passengers on the Lackawanna train was also heard by the driver of a motor truck.

Installed on the truck was a radiophone receiving set which reproduced the music while the truck was being driven from a nearby town to the city.

Lesson No. 53.

THE PLATE BATTERY.

A vacuum tube receiving circuit is dependent upon the plate battery or "B" battery for the supply of energy which netuates the telephone receivers.

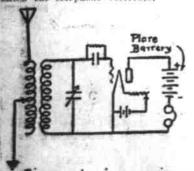


Diagram showing connection of Place or B' barrery

The plate battery is connected across

CALLAS DOTS

(By Mrs. Joe Gribble.) Correspondence of The Daily Gazette. DALLAS, May 11. - Morning and evening services will be conducted at the Dallas Presbyterian church Sunday, May 14, by Rev. J.) McKinnon, of Ruther the plate and finment in series with the fordion. All are most cordially invited telephone receivers and the plate feed to attend.

Rev. J. O. Ersin will preach at the

is an instrument employed to measure the length of the ether wave emitted by a radio transmitter or the length of the

A BAD NAME.

twenty two and one half volts. This vol-Innocent minded students of Asheville wine. condenser or inductance coil is made vari. (ation of most detector tubes, some re-city schools who in a spirit of frebe able the wave length of the wave meter only in the control of the wave length of the wave meter is changed, the greater the value of inductance or capacity the longer the wave ifrom intermediate cells to scene a lower as The Shifters are evidently unaware length and the smaller the values of in-

coil is of fixed value and the consienser, half to twenty two and one half voits in | Locally the initiations and practices half to twenty two and one half volts in steps of one and one half volts. Another are inreely of the non-ing kind, sag Register of Deeds H. R. Thompson: Cherryville Precinct lying North of the steps of one and one half volts. Another are inreely of the number of the steps of the number of the num method is to have taps of wire or brass gesting those of the amount order of Lail, four lots in Cherryville, considera road the Scaboard Airline Bail-strip connected to certain cells in the Buffaloes, although the principle of Lail, four lots in Cherryville, considera road and the said boundaries shall regroup, different manufacturers larving getting as much as possible for noting tion \$1,800. ing hardly commends itself even in a Craig, one lot on South Broad street, the Scabourd Airline Railroad. For voltages in excess of that furnishled by a block of "B" battery two or who searn the "spanging" type which

"Marriage License." more blocks may be connected in series exemplifies it.

more blocks may be connected in series exemplifies it.

Marriage license has been issued by for use with amplifying tubes which re.

It is what the name and the phrases Register of Deeds H. R. Thompson to quire voltages of forty or sixty volts or associated with it mean to others which Mr. S. M. Wilson and Miss Leola more. The same plate battery may be must give local members cause for re- White, both of Dallas. used for both the detector tube and the flection. The same thing under a difamplifier tubes by merely taking a tap ferent name would be far less objecoff at the proper point for the detector fiounder. Don't take any chances of "Wee" Askem: And what are the shadows on youthful reputations-does beef dressers demanding new! The storage battery for plate purposes be the most immoral who would bear that dresses to kill.-Wayside Tales. consists of a container in which are a the brant of it. - Asheville Times.

sufficient number of small storage cells to = How to Banish **Piles**

Thousands Bless Dr. Leon-Cleaners in a big steel smoke stack hardt, the Physician Who near Greenville, Ala., burried into the Discovered This Common 'Dixie.' They were unable to locate Sense Remedy.

waves were responsible for the phenome-If you think that the surgeon's knife Figure 1 shows a wave meter consisting of a fixed inductance coil, a variable wires apparently operated as a complete heard of the new tractment known as

> The Doctor's treatment is internal. By experimenting for years he discov cred the exact cause of piles and then went further and compounded a reme "You should return good for evil dy that would remove the cause, Willie," admonished Mrs. Brown. "If Dr. Leenhardt wants every Dr. Leonhardt wants every sufferer

> that little Smith boy strack you, you to benefit by his discovery and so that should treat him even more nicely there will be no doubting or delay J. H. Kennedy Drug Co. and all drug-"I did, Ma," replied Willie, "He gists are authorized to sell HEM ROID with guarantee that it will do as stated

> If its printing or office furniture your On that honorable basis every sufferer should secure a package of Dr Leonhardt's HEM-ROID today, troubles are ended when you call Brumley-Walters Printing Co.

> > **GASTONIAN**

TODAY

POLA NEGRI

"THE LAST PAYMENT"

Also

CHARLIE CHAPLIN

''PAYDAY'

A Laugh From Start to Finish.

Sportwear for Summer

woman is envying, and every man admiring them; if

they are so comfortable that you can walk for hours

with perfect comfort, then they are the Shoes for Sum-

Grey Trimmings, White Canvas with Patent Trimmings;

"Hose to Match."

Howell-Armstrong Shoe Co.

The same in Strap Pump.

also the White Canvas Ox that we offer at\$5.00

mer Days.

If your Shoes are so smart that you know every

We have everything that's new in Patents with

Peoples Tells Of First Well Day In 6 Years

One of the most important instruments of their recovery. All persons in the by radio engineers, inspectors and experimenters is the wave meter. The live terminal of the plate battery is consumed and exempting and exempt.

The live terminal of the plate battery is consumerating and exempt.

The live terminal of the plate battery is consumerating and exempt. Tanlac Went Right After lay of May, 1922. My Troubles," He States.

> Bereit taking Tablae I had not not not day in six years," said W. NOTICE OF CHANGES IN ELECTION Proples 228 22nd St., Huntington,

Therefore a circuit of known capacity and known inductance has a known free and known and known inductance has a known free small dry cells an was wish to lake this course how. Cherquency, hence a known wave length, A small dry cells and was wish to lake this course how. Cherquency, hence a known wave length, A small dry cells and was wish a law order will be the line between Cherquency, hence a known wave length, A small dry cells and was wish as will be the line between Cherquency, hence a known wave length, A small dry cells and was wish to lake this course here. There are small dry cells and was wish to lake this course here. There are small dry cells and was wish to lake this course here. wave meter consists of a circuit containing a condenser and an inductance coil, in a unit, all connected in series charges are made. ine did for her, and I am glad to add my endorsement of this wonderful med-

Tanke is sold by all good druggists.

MATTERS OF RECORD

Real Estate Transfers.

Marriage License.

Another type of plate battery is the any young fellow who "belongs" want | Hugh Tellum: Higher wages. They

Farmers, Notice!

I have recently purchased the Armstrong herd of registered ABER-DEEN-ANGUS cattle. In this herd are five very fine bulls which I am going to sell at bargain prices. Would exchange them for other livestock, feed, or other farm products. See me if interest-

R. G. RANKIN, Gastonia, N. C.



Michael & Bivens, Inc.

TRUSTEE'S SALE OF LAND.

Under and by virtue of the power of de in me vested by a certain Deed of Trust expented by E. G. Nantz and wife illie Nantz on the 17th day of January 1921, and of record Book 149, Page 5 Office Register of Deeds, Gaston County N. C. to secure a note of even date there with of Eighteen Hundred and thirty six dollars, and default having been made in the payment of the same though long just and after repeated demands, the undersigned trustee by request of W. M. Sain, will sell to the highest bidder at public auction for cash at the Court House Door, Gastonia, North Carolina at

Saturday, June 10, 1922, the following described tract of real es-

ate, bounded and described as follows: Known as the Mrs. Clabe tract of land and being in Dallas Township, Gaston centy, N. C., adjoining the lands of Addie Stroup, James Stroup and others: Beginning at a stone in old corner and uns N. 71 1-4 E. 160 poles to a stone; ence S. 19 E. 64 poles to a stone; hence S. 40 W. 38 poles to a stone; ence 8, 50 E. 7 poles to a stone in the old line in the Tucksseegee Road, thence S. 73 W. 30 3-4 poles to a stone in the south side of said road, thence N. 81 W. 17 poles to a stone in said road; thence with said road N. 57 W. 50 poles to a stone; thence N. 18 W. 34 poles to the beginning, containing 48 acres, more or less. Being the tract on which are situated the dwelling and outbuildings

and all improvements, This, the 5th day of May, 1922. KEMP B. NIXON,

EXECUTOR'S NOTICE.

Having qualified as executor under the last will and testament of the estate of M. Harry Shuford, deceased. late of Gaston County, North Carolina, this is to notify all persons having claims against the estate of said deceased to exhibit them to the under signed at Gastonia, North Carolina, on or before the

or this notice will be pleaded in bar of their recovery. All persons in My Health For Good, But immediate payment. This the 3rd A. G. MYERS, Executor.

Geo. W. Wilson, Attorney.

the current flowing in a circuit we may determine the wave length of the circuit from the simple relation, wave length equals the rate at which the waves travel divided by the frequency.

Therefore a circuit of known capacity and known inductance has a known from the good of a number of small dressells.

Rev. J. O. Ervin.

Miss Law, the county Red Cross narse was in Dalias Wednesday and is auxious to institute classes for the home care at the sick. Once a week classes will require about three months to complete and the size of "B" battery is usually usually under about three months to complete and the county Red Cross narse was in Dalias Wednesday and is auxious to institute classes for the home care at the sick. Once a week classes will require about three months to complete and the size of "B" battery is usually under the waves travel and known inductance has a known from the good results in a large change in the voltage impressed as a small change in the voltage in the voltage impressed as a small change in the voltage Cherryville Precincts:

Cherryville precinct shall hereafter be known ... Cherryville Precinct No. 1 and the bonneary lines shall remain as heretofore count that Northern boundary shall be the main line of the Scaboard Airline Ranway. The voting place for Cherryville No. 1 shall be the city hall as hereboore. Cherryville Precinet No. The following deeds of transfer have 2 is largely created and shall consist of been filed and recorded in the office of all the territory formerly embraced in ern boundary shall be the main line of voting place in No. 2 precinct shall be at Peter C. Ream's store on Mountain Street. A new registration for both precinets is hereby ordered.

Cansler's Precinct.

Canslet's Presidet is abolished and divided as follows: Beginning at Thompson's Ford on the Catawba River, thence with a line running in a westerly storage cell variety, which may be either his sister to take this chance! If some claim that, at the present scale, a men man's treek. All that part of Cansler's of the lead acid of the alkaline cell type, sensual should come would it not likely that kills to dress cannot support a wife Procinct lying North of this line is hereby made a part of Lucia Precinct, and the voting place in Lucia Precinct will emain as beretofore, at J. R. Rogers' dore. That part of Cansler's Precinct ying south of this line is hereby made part of Mt. Holly Precinct, and the voting place at Mt. Holly will remain the same as heretofore,

Ranlo Precinct: Spencer Mountain Precinct is hereby bolished and a new precinct created to e known as Ranlo Precinct, and the olling place in this precinct will be E. . Stroup's Store, Said precinct is bounded and described as follows: On the East by South Point Township; on the North by Big Long Creek, the line unning in a westerly direction to the ballas road; thence with Dallas Road in Southerly direction to Due-heart rock; thence East with Due-heart erk to the South Point Township line, point of beginning. A new registra-Gastonia Precinct No. 2:

The boundaries of Gastonia Precinct 2 shall remain as heretofore except the Eastern boundary of Gastonia No. 2 shall be the old Dallas road. This the 27th day of April, 1922.

By the County Board of Elections of Gaston County. EMERY B. DENNY.

C. E. HUTCHISON, JR. Fr-M12e3. Secretary.

The Gazette has two phones. Call 50 if you want to talk business; call 232 if you want to talk to the news or editorial departments.

PLEASE REMEMBER

Our New Location Corner E. Franklin Ave. and S. Avon Street. 410-PHONES-411

STAR GROCERY CO., Inc.

We are now prepared to serve you better than ever.

OF THE PROPERTY OF THE PROPERT

THE MOST PROFITABLE HABIT

in the world, is the habit of SAVING MONEY!

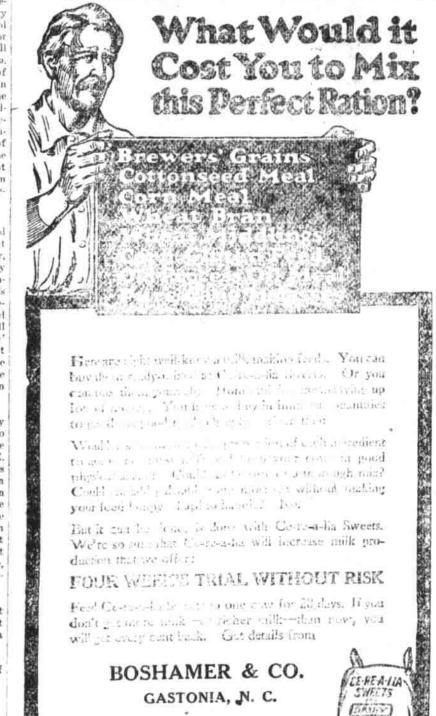
The foolish person spends all he receives and faces POVERTY-the WISE person saves all he can and faces PROSPERITY.

Form the savings habit today. Our Savings Department accepts deposits large or small and pays 4% Interest.

The First National Bank

GASTONIA, N. C.

"The Bank of Dependable Service."



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For a Simple Family Meal or the More Elaborate Dinner

Pound Cake (Eight Varieties) PLAIN MARBLE

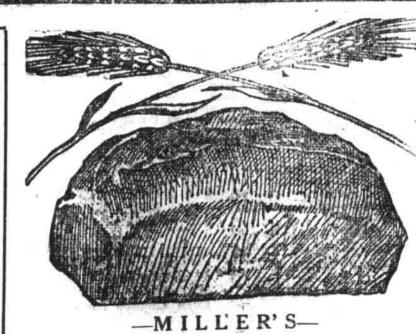
MILLER'S

ORANGE RAISIN COCOANUT CHOCOLATE MARSHMALLOW CHERRY MILLER'S

Carolina Made Package Cake 15c MILLER'S

Ice Cream Cake 10c

For Sale at All Leading Grocers



BUTTER-NUT BREAD

"The Better Bread"

is a bread that you will enjoy down to the last crumb. And every member of the family will enjoy it. It has that delightful milk and butter flavor that makes it a universal favorite. You will never be disappointed in the quality of Butter-Nut Bread, for a loaf of this better bread from each baking is cut and inspected by an officer of this company. This means that you are assured of getting a bread that is all that a better bread should

BUY ENOUGH SATURDAY TO LAST SUNDAY.

Carolina Baking Company (Made in Gastonia.)