By Edward N. Davis Formerly Technical Electrical Expert For U. S. Government

Lesson No. 242.

POINTS TO REMEMBER. REMEMBER THAT:

REMEMBER THAT:

In order to obtain the best results in the use of galena as a crystal detector, it is advisable to secure a large piece of galena and break it up into smaller pieces. Each of these pieces should be tested and the one which operates most satisfactory may be used as a standard and the sensitivity of other pieces compared with it. It is advisable to select a single transmitting station, to be used as a basis of signal strength, in order to obtain a fair comparison of the various pieces of crystal. In handling crystals, a small pair of pincers should be used to place the crystal in position, as contact with the fingers is liable to impair the sensitivity. The test buzzer, used as a means of locating the sensitive points on the crystal, is easily arranged and is an important feature of a crystal receiver, as the range over which the set will operate depends in a great measure on the adjustment of the crystal.

Regenerative receivers are super-sensitive to various forms of external

Regenerative receivers are super-sensitive to various forms of external electrical vibrations, in addition to those which are normally intercepted by the antenna and impressed upon the receiving set. These electrical disturbances may be due to static, to the alternating magnetic field of nearby power lines or capacity effects due to the close proximity of the hand or the body. In order to prevent these vibrations from inducing interfering currents in the receiver, the interior of the calent enclosing the apparatus should have a metallic lining such as copper foil or fine copper mesh. In addition, the individual circuits should be separated by a metallic surface so as to prevent inter-action between the various elements of the receiver. All sections of this metallic lining should be carefully soldered together so as to have a good electrical connection and should be grounded. This process is known as "shielding" and if properly carried out will reduce to a minimum the interference resulting from electrical disturbances which would otherwise induce currents in the receiver due to the tendency of the coils, themselves, to act as an antenna.

In radio receiving sets employing the vacuum tübe, the addition of ore

In radio receiving sets employing the vacuum tube, the addition of one stage of audio-frequency amplification has the effect of increasing the intensity of sounds approximately four to five times their normal strength with the detector tube alone. Two stages of audio-frequency amplification produce an increase in sound intensity from sixteen to twenty-five times their normal strength. Providing that a radio signal possesses sufficient strength to operate the detector and secure proper rectification, the employment of audio-frequency amplification will increase the range of the set by rendering extremely faint signals, clearly audible. If, however, the feeble impulses of the radiated signals lack sufficient power to actuate the detector, the use of audio-frequency amplification will produce no results.

The efficiency of a standard type of "half-wave" rectifier used for conis approximately 75 per cent. This is due to the fact that during the half-cycle when no current is flowing through the rectifier tube, only a small amount of energy sufficient for heating the filament and exciting the transformer, is drawn from the power supply.

In a regenerative receiver the production of oscillations by the tube may be detected by placing the finger on the grid terminal of the tube. A dull thud will be heard in the receiving telephones when the finger touches the terminal or when it is withdrawn. The oscillating point of the tube may also be determined by increasing the regenerative coupling to the point where a sudden hissing or rushing noise is heard in the receiving telephones.

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Ronald A. McAvity which provoked much mirth. One of the funniest items on the programme was the imposition of fines on offending members and for this a court of justice was constituted, composed of Judge E. J. Terry, in wig and spectacles, Prosecuting Attorney K. J. MacRea and Court Coustable R. A. McAvity whose repeated and vociferous demands for "order" had a very salutary effect. The manner in which he declared the court open and closed was to say the least, original.

The entire gathering sang "O Canada," including a special verse composed by G. R. Ewing in honor of Miss Canada, Miss Canada, We pledge to thee our love and fealty!" After dinner there was dancing in the court open and admit his culpability. The entire gathering sang to the dinner there was dancing in the stand up in his place at the dinner table and admit his culpability. The verse was as follows:

"Miss Canada, our Queen, whose gentle sway

"Miss Canada, our Queen, whose gentle sway our properties of the our love and fealty!"

"Miss Canada, our Queen, whose gentle sway or presented to miss our properties of the our properties and converted an interesting address on the principles of Rotary which was listened to as Cogger,

## Syrup Pitchers

With Sanitary Covers

Plain design of the best quality of Glassware made Also Glass Trays to Match

W. H. HAYWARD CO.,

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NOTICE PUBLIC.

Come in and try our special

## Turkey Supper

Saturday night, under the new managers of

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# Our February Furniture Sale Ends on Wednesday

Only a matter of a few weeks now until almost every St. John home will be gone over and rearranged for the warmer months. This will bring a need for new furniture for this or that room; or for odd corners here and there.

You'll be able to save a great deal of money by planning such needs early and making purchases

During the next three buying days, many remarkable bargains will be found in beautiful pieces for living room, dining room, hall and bed room. The following list will give you some idea of the big savings that can be made:

#### Nine Piece Dining Room Suites

Notice the Big Values Offered. Suite in Quartered Oak (old English), Mirror on buffet; and mirror in back of china closet; 45 in. round pedestal table... Sale \$218.00 suite Suite in Walnut Finish, "Queen Anne" design. 54 in. buffet with mirror. China closet

Sale \$232.00 Suite in Golden Polished Oak.
Mirror on buffet. Square table
with five legs. . Sale \$142.00

with mirror; 48 in. round



Two Wonderful Bargains in Beautiful Walnut Buffets

One is in "Queen Anne" design. Originally \$117.00 and \$122. Sale \$78.50
Buffets in oak and imitation oak; various finishes.
Sale \$22.00 to \$63.50

> One Specially Fine China Cabinet

In Mahogany. Louis XV Design.

Originally \$122.75. Sale \$93.50 Others in fumed oak, walnutgum, mahogany and walnut. Every one bargain priced. \$29.50 to \$93.50

#### Large Assortment of Chairs and Settees

Prices Much Below Regular.

Among them: Morris Chairs,
Belgium grey Settees, Fumed
oak Rockers, large Williow Settees, Willow and Rush Arm Chairs, Real Mahogany Settee, Tapestry upholstered chairs, etc.



Divanette and Two Chairs to Match Fumed oak upholstered in leatherette. Divanette can be converted into comfortable bed. Sale \$81.50 for three pieces.

Globe-Wernicke Book

Cases Clearing out our stock of C width in Early English and fumed oak finishes; 3 sections including base and top.

Sale \$24.25

Hall Seats In Walnut; and all the various finishes of oak. Box style. Sale Prices range from \$14.50 to \$23.50 Mirrors to match. Sale prices range from \$6.00 to \$19.50 These Prices Are Exceptionally Low. (Furniture store, Market Sq.)



Real Brass Beds in especially fine quality. Width 3ft. 3 in. Originally \$62.00.

Others in width 4 ft. 6 in. (full size). Some originally as high as \$58.00. Sale \$35.00

White Enamel Beds—
Sale \$12.50 to \$17.00
Ivory Enamel Beds—

# Walnut Bureau in modern colonial design (quite as attractive as antique classic.) It has post legs, 2 large drawers and 3 smaller top drawers. Originally \$158.00. Sale \$100.00

Beautiful Chesterfield

Suites Priced Very Low

Sold in singles, or two and three piece suites. The luxurious overstuffed styles uphol-

stered in tapestry. Colors will

Two piece suites .... \$135.00
Three piece suites \$176.00 to \$195.00

Exceptionally Fine Odd

Greatly Reduced

of almost any room.

MAN'S MAHOGANY BUREAU—A lovely plain piece in massive colonial design. Mahogany. Originally \$160.00 ......................... Sale \$100.00

VERY DAINTY MAHOGANY BUREAU in "Queen Anne" period design. A wonderful bargain. Originally \$235.00 ..... Sale \$148.00 DRESSING TABLE to match, Sale \$96.50

ATTRACTIVE WALNUT BU-REAU in plain design. Sale \$72.50 CHEFFERETTES—A most convenient piece of bedroom furniture. Deep and shallow drawers. Two doors in front. Walnut; also mahogany and walnut finishes. Sale \$31.50 to \$54.50 CHEFFONIERS—In light oak, Sale \$29.50 In walnut finish. Originally \$55.00. Sale \$38.50

Walnut Finish Bed (four poster). Originally \$55. Sale \$32.50

### THE ROTARY CLUB is Guest of Honor-A Delightful Evening.

18th Anniversary Celebrated Last Night-Miss Canada

LADIES' NIGHT AT

A royal good time was enjoyed last evening at Pythian Castle when the members of the Rotary Club held their inimitable Ladies' Night. The occasion was the eighteenth anniversary of the beginning of Rotary. The celebration took the form of a dinner and dance and was a complete success. A special committee under C. F. Wetmore had arranged an exellent programme which was greatly enjoyed by all. Miss Canada sat on the right of the president of the club, Dr. J. H. Barton, and she was accompanied by her mother, Mrs. F. R. Blair. Other special guests were Mr. and Mrs. W. H. Golding, Mr. and Mrs. W. Grant Smith, the former the president of the Gyro Club, and Miss Gladys Gibbon.

The dinner was innterspersed with songs and bits of the programme including solos by Dr. Percival Bonnell, Mrs. L. LeLacheur, a reading by Miss Gladys Gibbon and a comic song by

All Women's Walk-Over

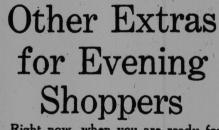
Lace Boots Values from \$10.00 to \$15.00, without any exceptions, have been placed on sale and marked at

\$5.75

To Clear There's Military heels, Cuban heels and Louis heels—in Black and Brown Calf, Fine Kid, White Nubuck and White cloth. Among them there's the "Solace" model, that wonderful comfort fitting last, and also the renowned "Princess Pat"

Don't Miss This Opportunity,

McROBBIE



Right now, when you are ready for it, tonight you can decide on something of your own in that widely acclaimed Canadian Homespun that's soaring in favor at home and abroad. And see what happens to the price these few hours—any one of the greys, blues or fawns, not at \$1.95 for 56 inch width, but \$1.79.

The Chambrays that caught your fancy at 25c. for 32 inch width in plain colors, old rose, pink, copen, sky, tan and helio—five yards tonight for 95c.

Chintz and Cretonne in yard widths for comfortable covers and drapery—five yards tonight for \$1.45.

Huckaback Towels, all pure linen and 18x34, 50c.

Belding Sweater Silk, 2 Oz. Skeins 80c.

A happy thought for the very days you devote to knitting Scarfs as well as Sweaters—look again at the price!

Thirty colors in Belding Yarns, many of them just out, add further ideas. Take this Sylflake for a fresh one—a twofold Flossene of filmy brightness created by the silk winding. At 35c. a ball it sets you thinking of baby jackets, kimonas and other secrets of the boudoir.

Then Silvergleam at 35c.—Belding's of course—a twofold yarn and silk, lustrous, soft and flexible. It gets you a dressy Hat or Sweater and Scarf on top of

most anything for Summer.

Of delicate texture, Zephyrene—a firmly twisted fourfold lightweight yarn for Sweaters, Infants' and Children's Wear. 20c. the ounce ball.

Every sort of use comes out of Australene, a soft and pliable yet medium weight fourfold, suggesting Afghans, Stockings, Skirts, Dresses, Sweaters, Bath Robes, etc., 20c. ball.



AT THE TOILETTE COUNTERS
Large cakes Vinolia Bath Soap Olive Castile Soap..... 4 cakes 25c. Olive Shampoo ... bottle 29c.
Vinolia Toilet Soap ... 4 cakes 25c.
Vinolia Talcum Powder ... 19c. tin

DANIEL Corner of King

ber was Accidental.

That the death of little Samuel Milber, who was crushed beneath a freight train at the Acadia street crossing last Tuesday afternoon, was accidentally Tuesday afternoon, was accidentally caused, was the verdict brought in by the jury at the inquest under Coroner H. A. Porter in the court rooms, Germain street, last night. Coupied with this was a recommendation that a permanent gateman be placed at this crossing. Details of the accident as published in the newspapers were substantially confirmed by the evidence given last night. given last night.

The jurymen were: A. T. Weatherhead, foreman; William Crabb, George H. McLaughlin, R. Wilmot Seeley,

Holy Trinity church for requiem high mass by Rev. Frank Cronin. Interment was in the new Catholic cemetery.

The funeral of Miss Annie Kirkpatrick took place yesterday afternoon from her late residence, Rothesay. Service was conducted by Rev. Canon A. W. Daniel and interment was in the Gondola Point cemetery.

RECOMMEND GATE

AT ACADIA STREET

Jury's Verdict at Inquest Says Death of Samuel Milber was Accidental.

Benjamin A. Dennison, William Wheaton and Walter J. Lawson. Arthur N. Carter appeared for the C. P. R., with W. F. Bailey, claims agent. Dr. J. B. M. Baxter, K. C., appeared for the Milber family; J. Goldberg also appeared for the family.

Those giving evidence were Harold M. Yeomans, who witnessed the accident; Dr. C. M. Pratt, who attended the boy; Ronald Livingstone, who was sliding with him; Robert Lawson, C. P. R. gateman; Miles Ring; James Smollen, engineer of the train; W. L. Patterson, fireman; T. Logue, brakeman; W. J. Heenan, conductor in charge; Vincent Perry, engineer of the rear locomotive, and Albert Kirkpatrick, his fireman.

Genuine Bargains in Beds of Various Kinds

Sale! Sale! Sale! Special discounts on all sheet music, music books, musical merchandise, pianos and

phonographs. Landry's Music Store 79 Germain St.

1923—AMDUR'S BARGAIN BULLETIN No. 5—1923

> Special For Monday Only

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Unless there is a reduction in the regular price of a regula line, there is no Bargain Bulletin. When you see the Bulletin you have a guarantee that it tells of a saving to you. To read it each day means forming a money-saving habit.