# POOR DOCUMENT

THE EVENING TIMES AND STAR, ST. JOHN, N. B., SATURDAY, DECEMBER 2, 1922

### FIFTEEN MINUTES OF RADIO EACH DAY

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

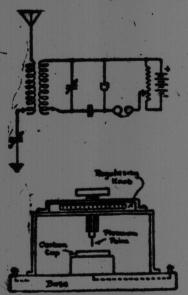
> Lesson No. 171. THE ELECTROLYTIC DETECTOR.

THE KLECTROLYTIC DETECTOR.

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There is a type of detector which is connected in circuit for detecting wireless waves in a way similar to the crystal detector but which employs a line wire resting in an acid solution instead of a crystal. This type of detector known as the electrolytic is a very sensitive detector when properly used but is little used at the present time due to large numbers of crystal and the detectors which are much more easily adjusted and involve the handling of no fine wires and dangerous acids.

In its usual form the electrolytic detector consists of a carbon cup mounted upon an insulating base and contains a twenty per cent solution of nitric acid and water. A fine platinum wire about .0001 inch in diameter is mounted on a vertical shaft fitted with an adjusting screw so that the "Wollaston wire" as it is called, may be gradually lowered into the acid solution. The detector is connected into the receiving circuit in the manner indicated in the diagram. It will be noted that a local potential is employed in the same way that crystal detectors are used with a battery. The battery is shunted by a potentiometer having a resistance of about 400 ohms which allows very little current to flow continuously from the 4 to 6 volt battery usually employed.



wire which is used in this type of detector. Usually the platinum wire which is from .00008 to .0001 inch in diameter is encased in a coating of silver which gives more body to the wire so that it may be more easily handled when mounting in the adjusting shaft. The acid eats away the silver coating, leaving only the platinum wire in contact with the nitric acid solution.

It is essential in connecting this type of detector in circuit to have the platinum wire connected to the positive terminal of the battery. When the device is correctly connected and the potentiometer adjusted until the set is ready to receive signals a hissing sound is noticeable in the telephone receivers.

In order that the platinum wire may be very gradually inserted into the mitric acid solution a very fine thread is cut in the vertical shaft in which the wire is mounted so that this adjustment may be made very carefully. In the more carefully built electrolytic detectors the vertical shaft itself does not rotate, but has a keyway cut in it so that a projection of the supporting bridge keeps the shoft from turning at the same time leaving the vertical shaft free to slide up and down. A large knurled nut is threaded on to the shaft between the two shaft bearings so that turning the nut slides the shaft up or down.

One of the disadvantages of the electrolytic detector is that ft "burns out" on very strong signals such as received from nearby transmitters. The



English Cups and Saucers in great variety at greatly reduced prices.

W. H. HAYWARD CO.

85 to 93 PRINCESS STREET

### Valuable Advice!

No man can afford to spend days, months and even years, in acquiring a knowledge of Jewelry, that will safeguard him in all his purchases, therefore, it is well to take the advice of a reputable **OUALITY STONES OF PERMANENT VALUE** 

You may purchase here, only diamonds that have been selected after minute inspection, and critical comparisons.

The finer the Diamond, the greater its natural You can depend upon our recommendations, as honest, and authoritative.

FERGUSON & PAGE

THE JEWELERS - - 41 KING STREET

RECENT DEATHS

the late Rev. G. S. Springer, of Upper Jemseg, Queens county. He is sur-vived by his wife and his daughter,



Stores Open 8.80 a.m.; Close 6 p.m. Saturday 10 p.m. Phone 2400.

## Answering The Yearly Question What To Give a Man?

Deciding upon the item to give is only a small part of it. Almost any item of furnishings is very good—but it is the little fine points and distinct characteristics which mean everything. Men, as you know, have their preferences. We can usually tell what they are and have chosen our stocks with an eye to pleasing the most discriminating.

A SCARF IS EASY TO BUY You don't have to worry about any size. You can get him one and be sure that he won't have to change it. He's sure to be well pleased with one of the newest ones we are show-ing here in knitted silk or wool.

THE HOSIERY GIFT CAN BE DISTINCTIVE

BE DISTINCTIVE

The fact that it is a sensible gift doesn't mean that it can't be a little out of the ordinary. The exceptional qualities and textures in our gift assortments enable you to select "something finer." Lisle, silk, cashmere, wool and fine mixtures are all included.

That is your hint. You can give him something that is more than just a pair of gloves. A pair of these fur-lined ones will give him the necessary protection for all the cold weather we are bound to have.

Motor Gloves, Silk - Lined Gloves, Wool Gloves and many other kinds await your approval here.

IF HIS GLOVES ARE NOT FUR LINED

CHOOSING NECKWEAR TO PLEASE A MAN It isn't at all difficult here where patterns and colorings It's all the better for you to decide upon some design that he would not choose for himself—it gives him better variety. The latest popular styles are always featured here.

assortments such as we can offer you will not only be giving him extra quality, but saving him a lot of trouble. Collars to match are a feature of many of our colored shirts.

NEW SHIRTS WILL BE APPRECIATED

HAS HE A NICE DRESSING GOWN?

There's a thing every man likes

to own. All you need do is get

the length of his sleeve and size

Leather Goods

ideas of men of all ages.

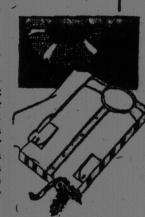
All these things suggest other gift possibilities sure to meet the

Braces, etc.

of his coat. We'll help you select one that we are sure will please him. Smoking Jackets, Bath Robes and House Coats are also well represented in our stocks.

A great many men are not keen on shopping, even for themselves; think it's a bother.
So in selecting a few chires from

(Men's Shops, 1st and 2nd floors)



# AMDUR'S, LTD.

RAPIDLY CLEARING STOCK IN

Most Remarkable Bargains Remain in Many Line's for Those Who Do Not Delay Too Long

Immense throngs have day and night taken advantage of the sensational price slaughter. Amdur's express hearty appreciation of the public's co-operation in their effort to return to normal. The Amdur staffs engaged in disposing of the Fire Sale Stock, now working smoothly and patrons are assured of most prompt attention.

A FEW OF THE ASTOUNDING FIRE SALE QUOTATIONS FOLLOW:

### For Women

Ladies' Coats, Ladies' Suits, Ladies' Dresses, undamaged, at
25 per cent of actual cost Ladies' Vests ...... 10c 

### For Men

Leather Gloves and Mitts (\$2 value) 25c pr Men's Wool Combinations (\$3 value) Men's Black, Blue and Red Label Underwear ..... 98c Men's Sweaters ..... 98c Men's Sox ..... 10c pr Men's Trousers ..... 98c and denim ..... 98c Men's Wool Mitts ..... 19c pr

### For Children

Boys' Sweaters ..... 69c Children's Hose ..... 2 prs 25c Children's Dresses ...... 25c Boys' Suits ..... \$2.98 Boys' Overalls ..... 39c Table Oilcloth ...... 25c yd

Sale Hours: 9 to 11.30 a. m.; 1 to 5 p. m.; 7 to 9.30 p. m.

### This Week

We are offering another excep-

Men's Best **Quality Boots** 

All One Price YOUR CHOICE AT

McR OBBIE Foot St. John 50 King Fitters Street

Curtains Ginghams
Sweaters Stockings



Buy "Diamond Dyes"—no other kind
—and follow the simple directions in
every package. Don't wonder whether
you can dye or tint successfully, because perfect home dyeing is guaranteed with Diamond Dyes even if you

New part dyed before Just tell your
was

Ungar's Laundry Ltd., have installed up-to-date stationary tubs, and wash and iron all silks, fine fiannels and all delicate articles entirely by hand. Give us a trial. Phone Main 58.

Free for another week. Large photo worth \$5 with every dozen cabinets.
Lugrin Studio, 38 Charlotte street.
5117-12-5

Grand Bay Outing Association dence, Studio, Thursday, Dec. 7. Only limited number of tickets will be sold.

In 2 Barkers' local Times, Friday, reapples, etc., "cost prices" should read "cut prices."

Mrs. J. G. Armstrong, 128 St. James treet, annual Christmas sale of art work. 5185-12-4 Sale of women's and childrens' vest, drawers, bloomers, combinations, half price. Manson's, Charlotte street, Market Building. 5187-12-4

SEE THEM TONIGHT

The Christmas show room at the London House has thousands of new gift things. Special purchases, on display tonight. You'll be surprised at the moderate prices. All sorts of ladies' stationery, boudoir novelties, bridge novelties, novelties for house, bridge favors, hand painted china, colonial glass, etc., etc. Come tonight. Open until 10 p.m. F. W. Daniel & Co.

"Studio" tonight. Mrs. Putnam's

HIGH SCHOOL ALUMNAE
The Reading Club of the High Schoo
Alumnae will meet Thursday evening
Dec 7, at 47 Hazen street.

The African Methodist Episcopal

Georgie P. Springer, and his son, Harold N. Springer, of this city, and two sisters. Mrs. James Walker of this city is a sister.

George N. Springer, of this city, and his half sister, Mrs. Calvin H. Purdy, of Upper Jemseg, Queens county.

The funeral will take place from 209 Douglas avenue on Sunday afternoon at two o'clock.

Charles H. Wallace.

Charles H. Wallace.

Charles H. Wallace of Cloverdale, Carleton County, N. B, passed away recently. He was one of the pioners of Cloverdale, moving there in 1899 and was the first postmaster. He is survived by his wife, seven sons, two daughters, twenty-eight grandchildren

and one great grand child; two brothers and two brothers and two brothers of the St. John; A. F. Skinner, of Amherst, and J. N. Berkley, of St. John. The conference favored an exhibition of Negro productions with the object of fostering and developing the art talents of the colored people. Several other matters of importance were discussed. A still alarm was sent to the hook and ladder station, King street east for a slight fire in the home of James Carleton Methodist church held their first Bible study class last night with blaze was extinguished/by the chemical engine.

Use the Want Ad. Way

# On Sale Tonight at London House

(Store Open Tonight until 10 p. m.)

Pretty Net Evening Dresses, over silk slip, for misses or college girls, in maize, pink or nile—

Sale Tonight \$15.00 each

Black Taffeta Evening Dresses, bouffant skirt, finished with frill—

Sale Tonight \$19.50

Black Lace, Georgette or Satin Dresses, trimmed with beads or French brocade—

Sale Tonight \$44.75

Attractive Leather Handbags, new shapes and Price \$2.35

Book Shape Handbags, top strap, extra fittings—.

Price \$3.25

Price \$3.25

Vanity Cases in a lot of different styles—
Prices \$1.00 to \$3.00

New Styles of Lace and Net Bertha Collars at special prices tonight.

Pink or White Brassiers, sizes 32 to 38—
Sale Tonight 58c. each
White Basket Weave Brassiers, back fastening—
Sale Tonight 58c.

Women's All Wool Spencers with or without sleeves, all colors and black, in Xmas boxes—
Special Prices Tonight
Self Stripe Silk Hose in gray, fawn, brown, beige, in box, 95c. a pair
Clocked Heather Hose in several new mixtures, browns,

Clocked Heather Hose in several new mixtures, browns, grays, greens, in box—

S1.65 a pr.

Dent's Soft Wool Gauntlet Gloves, fawn shades, in box— \$1.00 a pair Chamoisette Gloves, embroidered gauntlet cuff, in box—

Embroidered Tray Cloths, prettily boxed, 85c. each. Embroidered Runners, scalloped border, in box—
95c. each

Centre Pieces embroidered with scalloped edge, in box-Pillow Slips, embroidered and scalloped ends, in box—

**London House** 

F. W. DANIEL & CO.

HEAD OF KING ST.