



## How Fresh It Is!

It is a pleasure to go to your cake-box when you have baked with ROYAL Baking Powder because it is in the nature of a pure Cream of Tartar Baking Powder to keep baked foods fresh.

This means a real economy and is just one of a hundred reasons why careful house-keepers insist upon Royal Baking Powder. Some others are:

It Contains No Alum  
Leaves No Bitter Taste

## FIFTEEN MINUTES OF RADIO EACH DAY

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

### Lesson No. 174. AUDIBILITY MEASUREMENTS

The limit of audibility of radio telegraphic signals is sometimes taken to be that at which the dots and dashes can just be distinguished. For the purpose of making comparisons between received signals it is necessary to make audibility measurements of the strength of the received signals. One method for making audibility measurements is by means of the shunted telephone arrangement shown diagrammatically in the figure below.

"R" is a variable shunt resistance which is connected across the terminals of the telephone "T". The audibility of the signal is expressed by the ratio ("s" plus "r") divided by "s" where "s" is the impedance of the shunt "R" in ohms and where "t" is the impedance of the telephone in ohms.

In actual practice it is very difficult to secure an accuracy of greater than ten per cent but this is sufficient for many measurements. With the signal whose audibility it is desired to measure being received and rectified by the detector the resistance in parallel with the telephone is reduced until the limit of audibility is reached. The value of "s" is then taken from the resistance of the shunt across the telephone.

The audibility of the signals is found to be approximately proportional

### RECENT DEATHS

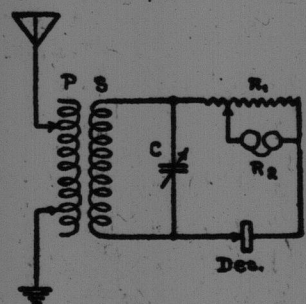
**Christie W. Irons.**  
Many will learn with regret of the death of Christie W. Irons, which occurred yesterday at his home, 44 1/2 St. James street. The late Mr. Irons, who was seventy-four years of age, was a native of Queens county but had spent most of his life in St. John and the greater part of it in the North End. For many years, before his retirement, he was employed with the St. John Railway Company. He was highly respected by all who knew him and in their bereavement his family will have the sympathy of a wide circle of friends. He is survived by his wife, two sons, James, of Boston, and Melvin, of this city; two daughters, Mrs. Frederick J. Nisbit, of Toronto, and Miss Christina, at home; also four stepdaughters and one stepson.

**Herbert McMillan.**  
The death of Herbert B. McMillan occurred on Sunday in Fredericton. He was 88 years of age and was a son of the late Mr. and Mrs. Edward McMillan. He is survived by five brothers, William of St. John, Philip of Iowa, Thomas of Stillwater, Minn., Joseph of Wakefield, Mass., and Steven of California, and one sister, Edna, of Boletown.

**E. P. Allison, K. C.**  
(Halifax Echo.)  
The late Edmund P. Allison, K. C., B. A., LL. B., was in his 80th year, and was a prominent barrister. Of late years he had been particularly active as counsel in business enterprises. During the last two or three years he had been closely identified as legal adviser with companies carrying out oil development work in Texas, making one or two trips to those fields in the interests of his clients. The late Mr. Allison was the barrister selected by the Chief Justice of the Province to represent citizens of Halifax in connection with the valuation, for rate-making purposes, of the assets of the Nova Scotia Tramways and Power Company.

Mr. Allison was born at Richibucto, N. B., on June 9, 1869, the son of Dr. David Allison, now of this city, formerly president of Mount Allison University. He was educated at Dalhousie University, taking the degree of B. A. and LL. B. Mr. Allison read law with the firm of Graham, Borden and Tupper, and later with the firm of Borden, Ritchie and Chisholm. He was called to the Bar of Nova Scotia in 1898, and was created K. C. in 1914. His wife was formerly Miss Eugenie E. Hart of this city. Among his many

public activities, Mr. Allison was a past president of the Charitable Irish Society, being succeeded to that office this year by Alderman Finlay. In religion the late Mr. Allison was a Methodist, and in politics a staunch Conservative. He is survived by his widow and one son, E. Philip, at home, and one brother, Harry A. Allison, barrister of Calgary. H. A. Powell, K. C., of St. John, is an uncle.



to the square of the high frequency current and may be expressed in current units if some form of sensitive indicating meter is inserted in the circuit. One or more readings of the meter should be taken for one or more settings of the resistance values.

The method described can only be employed when periodically interrupted signals are to be measured. Telephone measurements cannot be made of uninterrupted continuous wave currents.

The main reason for the lack of accuracy in audibility measurements made in this manner is the difficulty in establishing a standard for signals of a strength at which the dots and dashes are just distinguishable. The human ear is not so sensitive to slight changes in signal strength as to permit of greater accuracy in measurements of this nature.

It is interesting to note that about 10 microwatts is the least current which can be detected by the ordinary crystal and telephone. By means of an oscillating audion used in connection with the shunted telephone it is possible to measure the strength of signals received from distant stations, tests having been successfully made on stations several thousand miles distant. In this case the least current detectable was found to be about 4-1,000,000,000 of an ampere.

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### WEDDING AT A BEDSIDE

Oswining, Dec. 4—Announcement is made of a bedside wedding in Oswining.

Hospital on Thanksgiving night uniting in marriage Miss Minnie Wolpers, a hospital patient, and Thomas Gallant. Miss Wolpers is being treated for influenza.

## AMDUR'S, LTD.

Are Rapidly Reducing Their Fire Stock

Great crowds co-operate in house-cleaning, which will not continue much longer.

Now is the time to get your Xmas presents, while Fire Sale Prices prevail.

Amdur's, Ltd., No. 1 King Square



## Beautiful Silk Undergarments

Greatly Underpriced On Thursday

Just in time for choosing a few dainty pieces for gift giving comes this opportunity to secure them at a saving price. Included in the assortments are: Envelope Chemise, Night Gowns, Knickers and Step-ins in crepe-de-chine, wash satin and silk. Plain tailored and very pretty lace trimmed styles in flesh color and white.

- Envelope Chemise . . . \$1.75 and up
  - Night Gowns . . . \$4.50 and up
  - Step-ins . . . \$2.50 and up
  - Knickers . . . \$1.95 and up
- (Whitewear Dept., 2nd Floor.)

## Handsome Floor Rugs

Ideal Home Gifts "That Last"

A Rug is a gift that the whole family will enjoy—it is a permanent gift that contributes enjoyment every hour of the day.

The gift of a soft toned Oriental—A deep piled Wilton or Axminster—A Hall Runner—or even a stair carpet assumes more than usual importance.



You will find a very comprehensive variety of fresh new pieces to select from right now in our carpet department.

(German street entrance.)

**Manchester Robertson Allison Limited**  
KING STREET - GERMAN STREET - MARKET SQUARE



## Sale of Velour Hats \$4.50 Each

ON THURSDAY

Prices Were Originally Very Much Higher.

Our millinery salon is about to be converted into a Christmas Show Room. In order to make room for displays we have decided to clear out this special line of

High Grade Velour Hats at a Genuine Bargain Price.

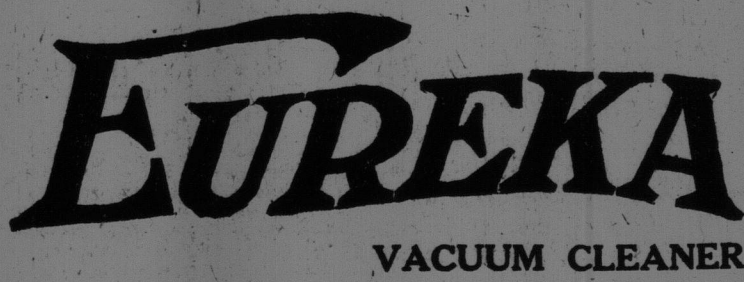
They are all tailored styles in clipped and un-clipped varieties. Exceptionally smart for wearing with heavy coats or tailored street costumes. Showing in black, navy, brown, sand, grey and cactus.

## Two Special Groups of Trimmed Hats

Bargain Priced at \$4.50 and \$6.50 Each

Some unusually smart models in these special groupings. It's only seldom an opportunity to select such really fine looking hats at such moderate prices prevail. Styles are plain or dressy enough for practically any winter occasion. Fashioned from velvets, plush, metal fabrics, etc. in shapes and colors highly fashioned this season. No appropriation or exchange of hats. Be early for the choice of selection. (Millinery salon, 2nd floor.)

## ABSOLUTELY FREE! THE GRAND PRIZE



### On 3 Days Trial—The Ideal Christmas Gift

Here is our wonderful offer. Upon request we will deliver to your door on three days' free Xmas trial a brand new 1922 Eureka. Use it without cost and if you decide to buy you can pay

ONLY \$5.00 DOWN Balance in Easy Monthly Payments

If you want to keep the Eureka after this free Xmas trial simply make the small down payment and pay the balance in easy monthly payments.

This Offer Expires Dec. 23:

You have only until 6 P.M., Saturday, Dec. 23, to accept this offer. Don't delay—act at once. The time is limited.

**A. Ernest Everett**  
THE HOUSE FURNISHER  
91 CHARLOTTE STREET.

juries received in an automobile accident. The couple had planned to be married in her home in Hawthorne on Thanksgiving Day. Miss Wolpers resolved to have the marriage performed on schedule. A Hawthorne clergyman went to the hospital and tied the knot. The bridegroom is also a resident of Hawthorne.

**CANARY TRADE IN JAPAN BRINGS IN HIGH PROFITS**  
Tokyo, Nov. 6.—(By mail.)—Japanese exporters are trying to induce breeders of canary birds to go into the business on a commercial basis instead of as a hobby, as it is now. Canaries from Japan are in great demand abroad, but the exporters cannot fill all their orders.

Last year, canaries to a value of 1,000,000 yen were exported, these going largely to the United States. This year the value of the birds exported is almost double that of last year with many orders unfilled. Buyers from Tokyo and Yokohama are scouring the nearby provinces, principally the prefecture of Niigata, for birds, which are bought for from one yen to one yen twenty sen for the ordinary mixed, bring from five yen to six yen in the city.

## Christmas Selling of Pretty Sweaters and Wool Things

Sweaters of character that women choose for themselves, besides all sorts of warm wool articles.

- New style tuxedo sweaters, all colors . . . \$8.75
- Sport pullovers in white or colors . . . \$4.45
- Wool spencers with or without sleeves, all colors . . . \$1.65 to \$2.35
- Warm wool bed-jackets . . . \$3.65
- Brush wool scarves and ties . . . 58c to \$1.75

### London House

F. W. DANIEL & CO. Head of King St.



### Mother Knows

"just how" to make a really nice cup of Tea ---no one better.

Let her combine her skill with the unusually rich flavor of KING COLE TEA. Not a doubt about the result.

"You'll like the flavor."



## MEN'S Skating Boots Light and Strong

These have a long counter to support the foot, and are especially strapped inside to prevent stretching.

Price \$5.50

This style is now shown in our Men's window.

They would make an ideal Christmas Gift.

**McROBBIE**  
Foot St. John 80 King Fitters Street

## MUTT AND JEFF—JEFF WOULD DO MUCH BETTER WITH A CAN OPENER

- By "BUD" FISHER

JEFF LEFT A NOTE AT THE LION TAMERS' CLUB TELLING ME I COULD FIND HIM DOWN BY THE OIL WELLS FISHING.



THIS BEATS SITTING IN THE SMOKE-LADEN ROOMS OF THE LION TAMERS' CLUB ALL HOLLOW!



JEFF, LISTEN! THAT AIN'T WATER! THAT'S A POOL OF CRUDE PETROLEUM!



SAP! DID YOU EVER HEAR OF CATCHING FISH IN OIL?



SAP YOURSELF! DIDN'T YOU EVER HEAR OF SARDINES?

