# POOR DOCUMENT

THE EVENING TIMES AND STAR, ST. JOHN, N. B., WEDNESDAY, SEPTEMBER 6, 1922

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many, while for the next period of ten

years the number is not much more than

IINU UUNL DLI UUITU

Fuel Shortage Not Consider-

ed in Serious Light in View

of Recent Find in Prince

ARE OPPOSED BY

FARMERS' ORGAN

FIVE INJURIES IN

Moose Jaw, Sask., Sept. 6—One death and five persons slightly injured appears to be the toll of the storm which swept through the Moose Jaw district Mon-

**WESTERN STORM** 

Albert District.

THE CURRENT IS THERE - AND jumped from 50 to 200, or four times as AT COST.

Representatives of the New Bruns- doubled. wick Power Company have been trying The crucial time is indeed around the to secure control of the Musquash cur- sixteen year mark. Perhaps if there was rent on the one hand and attempting on not in youth of that age an inbred fear the other to create the impression that of the consequences of crime, the numthe current is not there. The public ber falling under the eye of the law has been quick to see through this prop- would be more appairing. The youth aganda, and all doubt as to the capacity gradually loses that fear and respect of of the Musquash was removed long ago. the law, and therefore his wrong-doing But lately the enemies of hydro have comes more and more before the gaze returned again to the question of supply, of the public, and more intimation than specific stateThere is some little hope of diverting ment have sought to arouse fears that the Musquash plant is not capable of producing 21,000,000 k. w. h.

The message to the public from Mr.

C. O. Foss, Chief Engineer of the New a higher ideal. Look after the boy and

Brunswick Electric Power Commission, the man will be able to look after himwhich is published on another page, is a self. convincing answer to those who would discredit the hydro policy and confuse
the whole power issue, Mr. Foss points

The weather is kindly to the exhibiout that the capacity of a water power tion. There should be a great attendis not determined by guess work. It is ance today. The way to encourage those done scientifically by men who know who are giving their time to the big fair their business and who naturally leave is to visit it several times. a substantial margin of safety in their calculations, "A water power," Mr. An official estimate of more than 900,-Foss explains, "is as easy to measure and 000,000 bushels of grain in the western compute as any other tangible object." crops this year is the news from Ottawa. It is merely a matter of determining That's cheery. the amount of water that can be controlled and the distance through which done with accuracy at Musquash, and Mr. SASKATCHEW it can be caused to fall. This has been that may have been expressed that the Musquash will not supply 21,000,000 k. w. h. are wholly groundless. He goes on to outline the policy under which a great-

The Musquash development was decided upon after experts had made their reports based on records covering many years. Last year the rainfall was less than that in any year in the last half century, but the Musquash plant will more than take care of the maximum than that in any year in the last half century, but the Musquash plant will more than take care of the maximum demand even in the driest season ever known here. Those who talk about the water not being there have had no means of investigating for themselves. Mr. Kribs, who has had a wide experience with storage basins such as the Musquash, has no doubt whatever as to its capacity.

The power is there. The current is available at the city line at cost. The government's guarantee provides for a maximum charge of 1.2. It cannot be more than that; it may be much less, for any saving in production will be passed on to the consumers. The citizens are demanding that the contract for this

er storage capacity will be provided for the purpose of meeting increasing de-

demanding that the contract for this power shall be executed as soon as possible and distribution made without profit to any individual or group of in-

#### WELCOME TO ST. JOHN.

St. John today bids hearty welcome to the delegates to the Maritime Board of Trade meeting. They are prominent business men of the three sea provinces and members of parliament met to discuss questions of vital interest to all. These subjects include functioning of the Maritime Board of Trade in co-operation with the provincial governments of Nova Scotia, Prince Edward Island, and New Brunswick; an immigration policy for the Maritimes; "Canadian ports for Canadian Commerce," and establishment of a Canadian federal research institute, Doubtless other subjects will be touched upon during the deliberations but those referred to are sufficient to justify the sacrifice of time on the part of these busy men in the general interest of the maritime provinces. It is a happy conjunction of circumstances that they are here during the exhibition and they will have opportunity to see something of have opportunity to see something of what New Brunswick is doing in agri-culture and manufacturing and along other lines of endeavor. A pleasant stay, gentlemen, and success in your de-

#### LOOK AFTER THE BOY.

A poignant lesson in connection with the rise and wane of the inclinations towards crime may be drawn from the annual report of the Ottawa police department, recently issued.

This report shows that of 1,316 persons arrested in 1921, 50 were under 16 years of age, 200 between 16 and 20, 461 between 21 and 30, 286 between 31 and 40. Then between the gray of 41 to the standing crop and garden stuff was in many places totally destroyed.

One man was struck by lightning.

and 40. Then, between the ages of 41 LARGE ORDER FROM FRANCE. and 40. Then, between the ages of 198, and 50, the number dropped to 198, while between the ages of 51 and 60 the Railway Electric Equipment Worth \$8,000,000 Purchased in U. S.

#### The Evening Times and Star SAYS PUBLIC NEED HAVE NO FEARS REGARDING CAPACITY AT MUSQUASH

Chief Engineer Gives Effective Answer to Those Who Are Trying to Create Doubt as to Power That Can be Furnished — A Message That Should be Read by All.

C. O. Foss, Chief Engineer of the New Brunswick Electric Power Commission, yesterday gave out the following statement:

"There is some discussion in the public press and on the public platform, and much more on the street corners and in the homes, as to whether it will be possible to generate the amount of power at Musquash which is claimed, viz., 21,000,000 kilowatt hours per year, and it is in the hope that I may be able to remove the doubt from the minds of honest doubters that I am asking you to publish the following statement:

"A water power is as easy to measure and compute as any other tan-

"It is made up of two easily determined elements, first the amount of water that can be controlled, and second, the distance through which it can be caused to fall.

"The quantity of water which is delivered by a stream can only be determined by careful measurement repeated over and over at all stages of the stream till an accurate flow curve has been established, after which daily readings of a gauge fixed in the stream at the place where the measurements have been made will give correctly the amount of water delivered by the stream in any given period of time.

"Having these records for several years in seasons both wet and dry,

and having fixed on an amount to be regulated, something less than the annual average run off in the dryest year, of which there is record, then if the storage can be made equal to the requirement of supplying this amount of water in the dryest year the problem is solved.

"To apply these requirements to Musquash we have assumed that we can regulate a flow of 180 cubic feet per second on each branch. Last year (1921), the rainfall from May to October, inclusive, was the least since records were kept in this city, a period of sixty-one years, and yet we found that with all the reasonably available storage provided we could meet the requirements to provide the amount of water named above, sufficient to generate twenty-one million kilowatt hours per year, which is the basis on which the plant has been designed and built.

"As last year was the first to run so low for so long in sixty-one

years, it may be sixty years before it occurs again, and it is almost certain to be at least five to ten years.

"Meantime we shall have, when the dams are con lake, a matter of two months or less, three billion cubic feet of stored water.

"This amount of storage would, in ordinary years, take care of the re-rement for the full load the plant is designed to carry.
"In addition we shall build a small dam on each branch every year for

of the full load in a year like the last.

"It is possible that twenty-live per cent to thirty-three per cent of this stored water will not be used for years to come, but it is the cheapest and

most efficient standby or auxiliary we can provide."

"In closing, I beg to reassure the people who are interested that they need have no fears that Musquash will not supply the amount of power calculated, viz., 21,000,000 kilowatt hours.

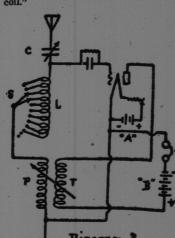
#### FIFTEEN MINUTES OF RADIO EACH DAY

By Edward N. Davis

Formerly Technical Electrical Expert For U. S. Gov-

REGENERATIVE CIRCUITS FOR LONG AND SHORT WAVE RECEPTION.

Regeneration in receiving circuits employing the vacuum tube is accomplished by "feeding back" to the grid circuit, a portion of the oscillating energy of the plate circuit. Two simple forms of "feed back" circuits commonly used to produce regeneration are the "tuned plate" circuit and the circuit employing the so-called "tickler coil."



In diagram 1 is shown an example of a "feed back" circuit using the "Tickler coil." When the incoming wave is impressed upon this circuit the current in the plate circuit has both audio-frequency and radio-frequency pulsations. The radio-frequency component of the plate current flows through the tickler coil (T) and causes a voltage of radio-frequency to be induced in the secondary coil (S) to which the "Tickler coil" is coupled. This induced voltage increases the oscillation in the grid circuit and produces a reinforced oscillation which is in turn amplified by the tube and results in a further increase of radio-frequency current through the "tickler coil" and increased strength of oscillation in the grid circuit. The resultant signal made audible in the receiving telephone, as a result of the cumulative effect of this regeneration, is increased to a strength much greater than would have been the case if the regenerative feature had not been employed.

Regeneration by means of the "tuned plate" circuit may be accomplished

Regeneration by means of the "tuned plate" circuit may be accomplished by substituting in place of the "tickler coil" in Diagram I a variometer which has an adjustable inductance and need not be placed in inductive relation to the secondary coil (S.) In this case the capacity between the grid and plate is utilized for coupling purposes. A regenerative circuit combining a vario-coupler with grid and plate variometers is a very efficient and popular circuit for short wave reception such as the 360 meter wave length of the present day broadcasting. It is often desired, however, to receive signals transmitted at higher wave lengths and for this purpose the circuit must possess tuning elements adjustable to these longer waves.

A receiving circuit adapted to the reception of wave lengths up to 8,000

lengths and for this purpose the circuit must possess tuning elements adjustable to these longer waves.

A receiving circuit adapted to the reception of wave lengths up to 3,000 meters is shown in Diagram 2. This circuit is essentially a uni-coil receiver and consists of a tapped cylindrical coil (L) connected in series with a spherical fixed coil (P.) A "Tickler coil" (T) also spherical in shape is arranged so as to be rotated inside coil (P.) By this means the coupling between the "tickler coil" and the fixed coil (P) may be varied to a very fine degree. The switch (S) has two contact arms, one of which regulates the number of turns in circuit of the coil (L) and the other performs the function of short-circuiting the next adjoining group of turns which effectually eliminates the lossee due to end turns by cutting out the remaining unused turns of the coil.

Another feature of this receiving set is the use of the "balanced condenser" (C) in which both the fixed and movable plates are divided so that half are on either side of the shaft. When the condenser is mounted on a panel, this arrangement of plates is so balanced that the condenser will remain in the setting to which it has been adjusted. By means of the switch (S) the number of turns in circuit and consequently the inductance of the coil (L) may be varied and the circuit adjusted to long wave lengths, while the "tickler coil" has a continuously variable coupling through its rotative position with respect to coil (P.)

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Edward Belier, a resident of Darling's plaining of frequent pains in the head to be the coil of Darling's plaining of frequent pains in the head to be the coil of Darling's plaining of frequent pains in the head to be provided in the Kennebecasis, killed him-land it is helicated that he was mentally the fixed pain and it is helicated that he was mentally the fixed pain and it is helicated that he was mentally the fixed pain and it is helicated that he was mentall

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EXHIBITION

The Wind is a black-visaged beast to-night,
I tose and shudder and long for light.
Oh cruel talons that grasp with might
My casement window—how frail it

gleams,
Rustle of leaves and the tiptoe dreams—
But now it is shutting a wild Thing
out—
A winged beast in a mad death rout—
(Oh, the great black wings on-rushing!)

Bayberry bushes of frosted green Guarded that tryst of a king and queen, Sun-warmed strawberries formed the

(Ah-h-h! The rush of that black-winged Beast!)

Yet I remember the Wind that day Tore rose petals in wanton play, Yesterday was long years ago And my own true Love was there. —Louise Morey Bowman in Montre Gasette

LIGHTER VEIN.

A Wise Bird.

Dear me!" exclaimed the sportsman

He is supposed to be of German extrac-tion and to have gone to Darling's Is-land in the spring of 1921 for his health.



mumber lessened to 86. Between the ages of 61 and 70 the figures fell to 32. Of prisoners over 71 there were only 6.

It would seem on the face of it that the decade between the ages of 21 and 80 might be rightly termed the dangerous age—that it is during this period a man reaches the cross-mosts at which he is called upon to choose the good or the bad.

This may be true in some cases, but a glance at the other figures would lead one to conclude that the danger period is really earlier than this. From those ixteen and twenty, the number of arrests

\*\$5,000,000 Purchased in U. S.

\*\*Pittsburgh, Sept. 6—A contract for cquipment amounting to approximately \$5,000,000 has been received by the West-includes and of the coll (L) and the other performs the function of short-trucking the contract for cquipment amounting to approximately \$5,000,000 has been received by the West-includes and of the coll (L) and the other performs the function of short-trucking the coll (L) and the other performs the function of short-trucking the coll.

Another feature of this receiving set is the use of the string to make the condenser will remain in the set in the coll end of the shaft. When the condenser is mounted on a panel, then, of the string to the state, and move the figures will remain in the set into the coll (L) and the other performs the function of short-trucking the coll.

Another feature of this receiving set is the use of the validity of the shaft. When the condenser is mounted on a panel, this, the number of the switch (S) the number

have undertaken to exploit the patent furniture, cigarette cases, pen-holders and other articles are to be put on the market all made up in the new colored dozen times. E's a-follerin' you about, sir!"

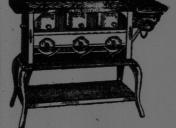
"Following me about! Nonesense! Why should a bird do that?"
"Well, sir, I dunno, I'm sure, unless 'e's 'anging' round for safety." TO COLOR WOOD.

Mrs. M. A. Quinkan announces an autumn showing of imported hats, selected from the formal openings of the most noted designers.

"Style and quality assured" at the Store of Correct Millinery, No. 89 Ger-Dresden, Sept. 6—A German engineer has just succeeded in perfecting a process for coloring living trees. It has been found that a whole tree from the end of its roots to the topmost leaf can be completely and permanently colored within forty-eight hours. Two Dresden firms Union and Dorchester.

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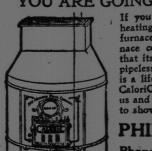


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