THE EVENING TIMES AND STAR, ST. JOHN, N. B., TUESDAY, JULY 25, 1922

The Evening Times and Flar

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A GOOD RECORD.

generally established and capable of good

Halifax has lately put in force drastic

LAWS AND VIOLATIONS.

Referring to reports that there may be

"The issue was before the voters of the

Anglo-Celtic-American friendship. Suit come to stay over night.

grave Manor in England was the birthplace of George Washington. It is now to increase motor traffic to these provby gift a possession of the American inces might be the announcement that people, and a statue of Washington is in at certain centres camping privileges Trafalgar Square. The old breach is would be found. Tourists who pause healed. Britain and America are exen route are free spenders, and the sathealed. Britain and America are exen route are free spenders, and the satly specially made for this duty and are designated as amplifying or amplifier

quency to an audio frequency amplifiers and audio frequency amplifiers are designated as one, two or three steps, or one,
two or three staged amplifiers, according to the number of vacuum tubes and
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two or three staged amplifiers are designated as one, two or three staged amplifiers are designated as amplifying or amplifier. grave Manor in England was the birth- A useful kind of publicity in seeking healed. Britain and America are ex- en route are free spenders, and the satchanging statues of great men, and in issied tourist is likely to come again. both countries there is a strong organiza-

tion seeking to draw closer the bonds of friendship. The Rotary Club heard with deep interest yesterday of the pro-gress of the work of the Sulgrave Insti-tution, and all Canadians reciprocate the decrease in the number of infectious diskindly feeling expressed by the visitor. eases in that city in the last few years.

Deeper than tariffs and petty causes of In 1919 there were 110 cases of diphdispute that may arise from time to time theria; in 1920 the same number; in 1921 between neighbors lies the feeling of only 64; and for six months of this year kinship, and Mr. Humphrey reminded his 15. Scarlet fever showed 37 cases in hearers that Magna Charta Day was ob- 1919, 44 in 1920, 18 in 1921, and 9 in served this year in the United States, the first half of this year. In 1919 there and that every American president except two has been of British stock. Of those two one was Dutch, and the other half Dutch and half British in origin. It is not alone a lasting friendship between Canada and the United States that is "These figures show wonderful imneeded, but between the British Empire provement in the city in the matter of and the United States; and the Sulgrave infectious diseases during the past few Institution also reaches out a hand to all years and so far as the present year is men of good-will who share the same concerned the totals for the year to June ideals, regardless of the race to which are a record for six months and seem to they belong. Mr. Humphrey's apt re- indicate the year may be a remarkable mark that it is not hands across the sea one in this respect. Members of the but hearts around the world the Insti- Health Board and officials of the departtution seeks struck an instant responsive ment do not hesitate to attribute the imchord in the hearts of his hearers. He mense health improvement evident reis doing a good service in his tour and they profit who listen and have their measures enforced in recent years, and thoughts turned for a little to the larger even hope for further improvement when

The press has noted the fact that Mr. and is standing firm in the face f ob-

and the welfare of the world.

issues relating to the life of their country the milk bye-law is permanently and

J. Sutton Boyd this month completes jections made by those who are affected fifty years of service with the Moncton thereby. Times. He rose from the position of office boy to that of editor of a daily newspaper which has always had appreciative readers regardless of their politics. Mr. Boyd has seen Moncton grow from a another vote on the liquor question in small railway centre to an ambitious norland from the days of Sir Albert province in 1920, when by a vote of 68,city. He remembers the politicians of J. Smith to those of Hon. A. B. Copp.

He was on the Times staff in the stren-He was on the Times staff in the strenuous days when that gifted journalist the late Mr. H. T. Stevens was at the helm. He was there when Mr. J. E. B. McCready was editor of the Transcript, and when the late Mr John T. Hawke came to Moncton, as editor and proprietor of that journal, and flung himself with characteristic vigor into the rolities. with characteristic vigor into the politics of the constituency and the province. Mr. Boyd was writing for the Times when the late Mr. John L. Harris was dreaming his dreams of a greater Moncton, and when the late Mr. F. W. Sumner was laying the foundations of his very successful career. Hop Henry P. very successful career. Hon, Henry R. encourage those who want the Quebec Emmerson was there in his prime, the late Hon. D. L. Hanington was deep in politics, and Westmorland gave strong men to the public life of the country. Mr. Boyd knew them all and has survived. Lies, and Morantined gover strong, we will be a computed by the public life of the quality of writing in political campaigns that attracted attention when controlled and personal the hydrogeneous actions were far more biller and personal the hydrogeneous were far more biller and personal the work of the hydrogeneous were far more biller and personal the work of the hydrogeneous were far more biller and personal the work of the hydrogeneous were far more biller and personal the work of the hydrogeneous were far more biller and personal the work of the hydrogeneous were far more biller and personal the work of the hydrogeneous were far more biller and personal through the hydrogeneous were far more biller and personal through the hydrogeneous were far more biller and personal through the hydrogeneous were far more biller and personal through the hydrogeneous were far more biller and personal through the hydrogeneous were far more biller and personal through the hydrogeneous were far more biller and personal through the hydrogeneous were far more biller and personal through the hydrogeneous were far more biller and personal through the hydrogeneous were far more biller and personal through the hydrogeneous were far more biller and personal through the hydrogeneous were far more biller and personal through the hydr Boyd knew them all, and has survived Sweetsburg last week a man was fined

A, the State of Illinois. Where Ontario has fewer than 25 officially designated sites that state already has 104 municipalities which provide free camping sites with all facilities for the comfort of the modern gypsy. The survey was made by The Illinois Journal of Commerce, which discovered that practically all the tamp sites were not only offered free, nut that many of them were equipped with running water, toilet facilities, guards in some cases, washing between the survey as made is either ignorant of the facts or some towes, guards in some cases, washing between the survey as specific plants. The murder of Dr. Bentley, health officer of Truro, by a Syrian who after of truro, by a Syrian who after.

Nothing Doing.

Two farmers were visiting a town durbing a large cattle sale, and as the hotel where they stayed the night was filled, where they stayed the n

FIFTEEN MINUTES OF RADIO EACH DAY

By Edward N. Davis

Formerly Technical Electrical Expert For U. S. Gov-

Lesson No. 60.

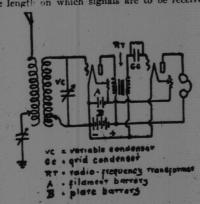
THE RADIO FREQUENCY AMPLIFIER.

A WELCOME VISITOR.

St. John is glad to extend a cordial welcome to Mr. A. B. Humphrey of New York, director of the Sulgrave Institution, who comes with a message of Anglo-Celtic-American friendship. Sulgrave Manor in England was the birth
Machines and electricity. The camps have followed the State highway system fairly closely, and at the present time the average tourist will pass three or four camps in the course of an average day's run, at any one of which he is welcome to stay over night."

A useful kind of publicity in seeking are generative circuit it is necessary to employ an amplifier and the divided into two classes the radio frequency amplifier may be divided into two classes the radio frequency amplifier and the audio frequency amplifier and the fact that it served to increase the strength of the radio frequency amplifier, however, is employed to increase the strength of the signal quency amplifier, however, is employed to increase the strength of the signal quency amplifier, however, is employed to increase the strength of the signal quency amplifier, however, is employed to increase the strength of the signal quency amplifier, however, is employed to increase the strength of the signal quency amplifier, however, is employed to increase the strength of the signal quency amplifier and the fact that it served to increase the strength of the radio frequency amplifier and the fact that it served to increase the strength of the signal audio frequency amplifier. Amplifier and the fact that it served to increase the strength of the fact that it served to increase the strength of the fact that it served to increase the strength of the fact that it served to increase the strength of the fact that it served to increase the strength of the fact that it served to increase the strength of the fact that it served to increase the strength of the fact that it served to increase the strength of the fact that it served to increase the strength of the fact that it served to increase the strength of the fact that it

A single step or stage of radio frequency amplification makes use of an amplifying tube, tube socket, and the usual filament current regulating rheostat. In addition to these a special form of transformer must be employed, called the radio frequency amplifying transformer. The primary is connected to the plate circuit of the preceding amplifier tube and the secondary to the grid circuit of the next tube. Radio frequency amplifying transformers must be designed for the particular wave length on which signals are to be received.



One Step Radio . prequency Ampliquer with Beregeer

how many stages of audio frequency amplification are connected to the detector, signals from the more distant stations are not heard. If, however, severa stages of radio frequency amplications are inserted before the signal reaches the detector tube the weaker signals, incapable of operating the detector tube them selves may be built up until a satisfactory signal strength is reached.

Radio frequency amplifiers have been but little used up to the present time, due probably to the lack of reliable data for designing them. They are rapidly coming into use in connection with receivers employing a small coil entennae where the initial signal as received is very small and the usual detector and two stages of audio frequency amplification is not sufficient to give a good readable signal in the telephone receivers.

Radio frequency amplifiers should be mounted in cabinets which are carefully shielded (lined with sheet metal) and it is desirable to separate each step of amplification fromt the others by similar shielding walls. This aids in reducing interaction between tubes.

NEW HIGH-POWED ELECTRIC TUBE.

If predictions are fulfilled regarding the recently developed high-powered lectron tube, it will result in rendering obsolete millions of dollars worth of radio equipment.

The tube in its present form is about eighteen inches in length and two inches in diameter and several of these small tubes are powerful enough to replace the noisy and expensive electrical generators used in transmitting stations, for trans-oceanic communications.

An Alexanderson alternator, having a caracsity of 200 kilowats is approximately ten feet in height and revolves at a speed of over two thousand revolutions per minute. One of these alternators can be replaced by ten small two-watt electron tubes which can be grouped in a space approximately the size of

The operation of the tubes is practically noiseless, and when provided with a high voltage source of direct current they generate a high frequency current which flows through the lofty antennas and radiate the message-bearing electric waves to receiving stations thousands of miles distant.

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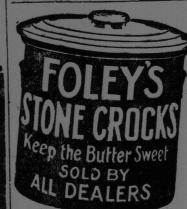
Eve heard bells chiming full many a clime in, clime in, Tolling sublime in cathedral shrine. While at a glib rate brass tongues would the control only attaches to supply from it. Typhoid only attaches

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With deep affection and recollection,
I often think of those Shandon bells,
Whose sounds so wild would, in the days
of childhood,
Fling round my cradle their magic spells.
On this I ponder where'er I wander,
And thus grow fonder, sweet Cork, of thee,
With thy bells of Shandon that sound so willing and bubbling right up out of the ground in a spring cool to the lips and The pleasant waters of the River Lee. delicious to the palate is no sign whatever that it is uncontaminated. Nor is