POOR DOCUMENT

THE EVENING TIMES AND STAR, ST. JOHN, N. B., SATURDAY, SEPTEMBER 23, 1922

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signatures required in a comparatively short time are to be congratulated not only on their public spirit but also for the carefulness with which they have carried out the task. In their enthusiasm, many citizens who were not on the come too commonplace to excite more voters' lists at the time of the last electron signed the petitions; these names have been eliminated. Some workers ties would be crippled and the chaos proved undependable, and their work ers, for reasons which have not yet been to realize what a vital part that comexplained, failed to turn in their lists, munication plays in the conduct of the and those lists have been replaced by world's affairs. others. The committee in charge has left nothing to chance, and there is every PASSING OF THE WIND-JAMMER reason to believe that when the lists have been checked they will be found to comply with all the requirements of the law. If it had been necessary much the law that had been necessary much the law. If it had been necessary much the law that had been necessary much the law. If it had been necessary much the law that had been

While some of Hearst's lieutenants expressed confidence in having enough

RECALLING THE MAYOR. first trans-Atlantic cable was laid, a line Upwards of 1,500 duly qualified electors have attached their signatures to the petitions for the recall of Mayor Mc-lellan. That number is greater than the law received of the submarine cables of the world total 325,—000 miles in length, and in combination with the telegraph.

was done a second time. Several work-

longer lists of signatures could have been of sailing vessel, is graphically depicted secured.

The next step will be the nomination of a candidate to oppose the Mayor in the recall election for which the petities and property. By the course of sailing vessels over those pro-

The standard to your leaves the New Your Control of Land Product William Facility of the Standard Control of Land Product William Facility of the Standard Control of Land Product William Facility of the Standard Control of Land Product William Facility of the Standard Control of Land Product William Facility of the Standard Control of Land Product William Facility of the Standard Control of Land Product William Facility of Land William Facility of Land William Facility of Land William Facil

cisive word as to Canada's part.

This was made known late tonight... in short official statements issued by the prime minister and by Hon. T. A. Crerar, leader of the Progressive party, who were in conference for some time this evening. The meeting was at the suggestion of the prime minister, who telegraphed Mr. Crerar in Winnipeg last Monday to the effect that the European situation was sufficiently important to have the western leader come to Ottawa for a conference.

FIFTEEN MINUTES OF RADIO EACH DAY

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

SIMPLE ELECTRICAL LAWS.

If a 110 volt electric bulb is connected across a 110 volt line it will glow at normal brilliancy and the filament will have a fairly long life. If the same bulb is connected across a six volt storage battery there will be no glow, which indicates that the current is too feeble to heat the filament to incandescence.

If the filament of a vacuum tube which glows brightly on six volts is connected across the 110 volt line it is melted instantly by the excessive current which flows.

Hellan. That number is greater than the law requires, and the petitions are being filed at City Hall today. The being filed at City Hall today. The being filed at City Hall today. The being filed at City Hall today it possible to communicate from almost any part of the world to almost any been completed, and from now on events should move rapidly towards the election of a new Mayor who will carry out the citizens' policy for the distribution of the hydro current at cost.

The workers who have secured the signatures required in a comparatively short time are to be congratulated not short time telegraph lines on land make it possible to communicate from almost any other words and number of ways, all of which mean the same. The most common form is not say that the current which flows through a resistance connected to a current source is equal to the voltage of the line divided by "I," the resistance in ohms of the device or circuit. In other w

Now, if the 220 ohm bulb is connected across the six volt battery, the current drawn may again be found by using the same expression, which now becomes "I equal E or 6 divided by 220 or R," which gives a current flow of .027 amperes. In other words, a current of ½ ampere will flow when the 110 volt is connected across the bulb, thus heating it to incandescence, but a current of only .027 ampere from the six volt battery is too weak to heat the filament of the bulb visibly.

In the case of the audion tube on six volts, it is found that the current consumption is usually about one ampere (as may be determined by an ammeter reading). Substituting these two values in the above expression or Ohm's Law to find the resistance of the audion filament the expression becomes "I or 1 equals 6 or E divided by R," which gives a value of six ohms for the filament resistance.

If the audion tube, the filament of which we have found to have a resistance of only six ohms were connected across the 110 volt line, the current drawn would be equal to 110 divided by 6, or about 18 amperes. If the filament is heated to incandescence by the normal current of one ampere it is obvious that a current of 18 emperes would melt the filament instantaneously.

It is apparent from the above that many expensive experiments may be avoided by an application of Ohm's Law, which will always give the desired result without uselessly destroying any apparatus.

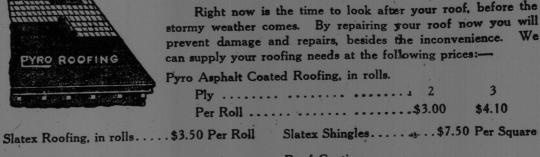
There are other forms or ways of expressing the law which are sometimes

There are other forms or ways of expressing the law which are sometimes more convenient to use in a particular application of the formula. Any of the following may be used:

I equals E R; R equals E I, or E equals I x R.

In using the law the expression is usally used which contains the unknown quantity as the left-hand member of the equation. Two of the three quantities must always be known in order to find the unknown or third quantity.

thirty-four was his portion. So, more or pleast, who were in conference for these, elements, illustrations that the conference to select the conference of the conference to select the conference to the companie to the conference to select the conference to conference to the companie to the primarile select the conference to the companie to the primarile select the conference to select the conference to the companie to the conference to the companie to the conference to the companies to the two systems, it was believed the conference to the companies to the conference to



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