

EDISON PREDICTS FUTURE MARVELS

Electricity Direct From Coal Without Steam Boilers and Electric Cures For Many Diseases

The future uses of electricity that will benefit humanity most will be through its medical application.

A new source of electrical supply will be direct from coal without need for steam boilers.

These are predictions of Thos. A. Edison, whose inventive genius is responsible for the widespread application of electricity.

"Electricity has been the principal factor in the enormous progress of civilization in the last 35 years," Edison said. "But greater and more wonderful uses of it are held by the future. It must be possible to gener-



THOMAS A. EDISON

ate electricity direct from coal," he said. "When that is accomplished we will record a new epoch. We are working on it now."

"Considerable is being done to reveal the medical functions of electricity," he continued, "but its possibilities in this direction are practically unknown."

"This research work must be done secretly, as the thousands of quacks now applying electricity to humans for all sorts of ills seize on every advance announcement from scientists to advertise their claims."

"Till we know more about our bodies it will be difficult to tell what can be done with electricity as a medical aid. I once asked Du Bois Raymond, psychologist, what makes my finger move. It isn't heat, light, electricity, magnetism. What is it? Raymond had studied it 30 years, but he couldn't answer me."

Edison now sleeps about five and a half hours a night. For years he only slept four. His daily diet does not exceed a pound and a half of food. He smokes cigars and chews tobacco, but bans cigarettes.

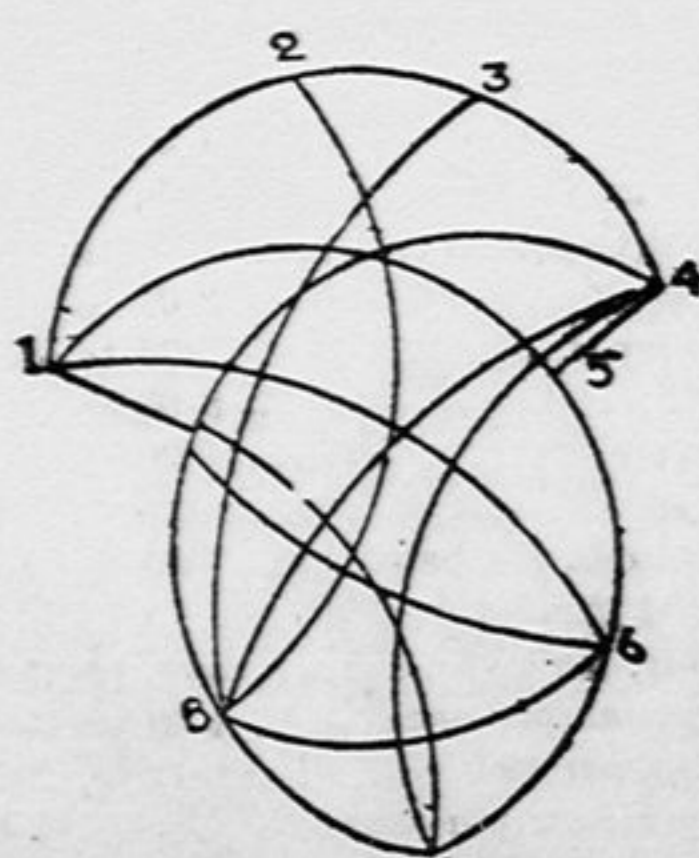
He reads regularly 18 scientific and trade periodicals and keeps in intimate touch with every form of human activity, including baseball, golf and the stage.

"I read four lines at once," he said. "They should teach that kind of reading in the public schools."

RECONSTRUCT THIS CIRCLE

Can You Do It Without Looking at the Explanation Below the Picture?

The funny-looking object below is just a circle with a lot of lines drawn through it to deceive your eyes. It doesn't look like a circle, now; that is because it is cut through with a pair of scissors and the two pieces joined together to form the figure you see. Now, can you by one cut of the scissors along one of the lines restore the circle to its former roundness? One cut will do it. Then join the two pieces and you will have a circle.



Here it is the method of procedure: Cut from 5 to 1; place point 1 at point 7 and 4 where 1 originally was at the end of the portion cut.

THE RIVER OF GRAIN FROM WEST TO EAST

ASTOUNDING FIGURES OF ONE RAILROAD SHOW IMMENSE VOLUME OF CEREALS PRODUCED ON THE PRAIRIES

Western Canada's crop year commences on September 1st and ends on August 31st the year following. So it happens that during September, those chiefly interested in the marketing of the crop, collect and compile statistics to show how the details compare with those of the preceding twelve months.

Grain figures are of interest wider than most. To the multitude concerned in the movement of grain from the farmers' siding to the consumer, they surpass in interest the latest fiction. To the business section, they speak of obligations and credits renewed; to manufacturers, as forecasting a revival of ordering and a busy season for the industries; to the farmer and his people, they take tangible form in new articles of comfort about the home; but to the men on the railways, they provoke reminiscences of days and nights on the road, and continuous striving to keep the ordinary traffic of the country in motion while the wheat was moving to the sea.

During the last crop year, the Canadian Northern Railway handled over its lines between Lake Superior and the Rocky Mountains, 109,122 cars of grain produced along its rails, and inspected by the Government at Winnipeg, Calgary and other points in the West. This is an increase of 69,828 cars over the total of the last previous year, and represents a gain of 178 per cent. A modern box car carries 1,200 bushels, so that the figures mean that one road transported more than 130,000,000 bushels of grain.

Coupled together, these 190,122 cars would form one continuous train Toronto to Montreal and back, and up north as far as Parry Sound. Split this up into freight trains of fifty cars each, which is the average, and there are 2,182 trains, each with locomotive, caboose and train crew. The cars handled over and above the total of the year before, would constitute a train continuing without a break from Toronto to New York.

TO BEE-KEEPERS

There is considerable difference in time from the laying of the egg in the various cells by the queen to the fully developed bee in the imago stage.

The egg deposited in the queen cell passes through its several stages to the matured queen in 15 days.

The egg in the worker cell becomes a full-grown worker bee in 21 days.

The egg in the drone cell takes 24 days to become a fully developed father.

The Queen bee leaves her cell on the 16th day.

The worker leaves its cell on the 22nd day.

The drone leisurely comes forth into the world of life on the 25th day.

The queen flies on the 21st day and the worker and drone on the 38th day.

There may be a little difference in time when the several actions take place within the hive, but the student can rely on the above mentioned times.

DON'T PASTURE TOO SOON

Feed Cow Well During Two Months of Rest

The average cow that freshens in the spring begins her year's work with a serious handicap. She does if she is poor in flesh, and the cow that is dry during the winter or a stripper is apt to be, for a low production does not prompt good feeding. Good clover, hay and corn silage or clover hay and fodder corn will bring a dry cow up to her period of freshening in pretty fair condition, but wild or timothy hay and corn stover will not.

It is now generally recognized among farmers who make a study of their cows that good feeding during a dairy cow's six weeks or two months of rest is as profitable or even more so than at any other time. The flesh on a good dairy cow lays on at this time will be converted into milk later. Her milk flow will be larger and her test will be higher when she freshens, if she is in first class condition.

Shortage of feed, the rush of spring work and the temptation to turn the cows on pasture before there is feed there for them are all to the disadvantage of the cow that freshens in the spring. Whatever may be the portion of the rest of the cows and stock, it will pay to feed the cow well that is soon to freshen. Not only a low milk production and a weak calf follow poor feeding at this time, but after birth retention which may lead to serious illness.

Horses Indispensable

The haze of uncertainty which has obscured horse breeding is steadily clearing away. Breeders are in a better position to-day to judge fairly of the future than they have been at any time in the last decade. Factors whose precise influence was problematical—automobiles, motor trucks, and tractors—have found their places, and their limitations are now fairly well understood. The greatest war in the history of the world has taught us, anew, the indispensability of horses and mules in warfare. Nations concerned with adequate defence measures must not neglect possessing plenty of horses for emergencies. Horse breeding is a world problem and must be considered as such, for horses are produced and used all over the world.

How To Carry Fowls

The old way of carrying fowls by their legs, or by the wings, is not practised by the present-day poultrymen. It is a cruel practice. Holding the fowl firmly by the legs and allowing the body to rest on the arm is a much better method.

AUTOMOBILE HINTS

In drying a car after washing it, or after it has been rained upon, use only clean chamouis skins or very soft cloths. Some kinds of cloth would scratch and dull the finish in a short time.

A very handy tool is a portable vulcanizer. With it the tube may be patched and thus is expense saved. It may also be used to close up small cuts in the tread of the outer shoe, thus prolonging its life. The method of using it may be easily mastered after a few attempts. Use an old tube to practice on and you will be surprised at the good work you can do.

The use of the self-starter prevents one from keeping in as close touch with his motor as he should. Where we used to crank the motor to start it we found out if it was properly lubricated and if the compression was good or not. Whenever there is any sign of loss of power the starting handle should be used to see if the crankshaft turns freely and the compression is good. Do it now, while the engine is in proper condition, and then you will have a basis for comparison when something goes wrong.

Be sure to change the water in the cooling system at least once a week. This will carry off most of the rust and so assist in preventing a clogged radiator.

Do not neglect to put a wrench on every nut and bolt on the car at least once a month, and on the steering connections once a week. No other mechanism receives the racking that the automobile gets, and it is impossible to keep the motor together if the nuts and bolts are not attended to frequently.

Be careful in the use of the air hose. It is so easy to connect to your tire and wait for it to be blown up that one often gets too much pressure. There is but little danger of the tire bursting. The harm is in making the tire too hard and so losing the benefit of the air cushion.

When an automobile motor is hot care should be taken not to pour cold water into the cooling system too rapidly. When the cold water strikes the overheated cylinders it is very apt to crack same, due to the rapid contraction which takes place.

When the proper oil level in the crank case is determined the installation of a drain cock in each compartment will enable the operator to keep his oil at a fixed level. This is an inexpensive installation and may obviate considerable trouble for the automobilist.

The gasket under the spark plug of the auto often causes a slight leak by holding a piece of dirt against the countersink. The dirt, even though it be very small, may cause the gasket to permit gas to leak out around the spark plug. When replacing the plugs it is well to clean the gasket and its seat thoroughly.

USE FOR OLD LAMP BODY

Handsome Jardiniere Made From the Old Metal Bowl

Some of the metal bodies of old lamps, and they are usually brass, are of such ample size and so neatly em-



bossed that they can be readily used as jardiniere instead of being handed to the junk man. It is only necessary to remove the lamp part, and set the plant pot into the bowl of the stand, as shown in the sketch.—From Popular Mechanics.

Fortune in Seaweed

Sir William Macgregor said they had on the seaboard of Newfoundland and Labrador a submarine forest of unvalued value—seaweed. They could not develop agriculture in Newfoundland unless they had a plentiful supply of potash, and it was certain that Germany after the war would place a heavy export duty on her potash. But a supply was to be found in the seaweed. At one time potash making from kelp on the west coast of Scotland thrived until it was killed by Free Trade. If the matter were taken up in the proper way Newfoundland would be able to start a new industry of the greatest value and supply all the potash she required, and more besides.

Green Bones Better

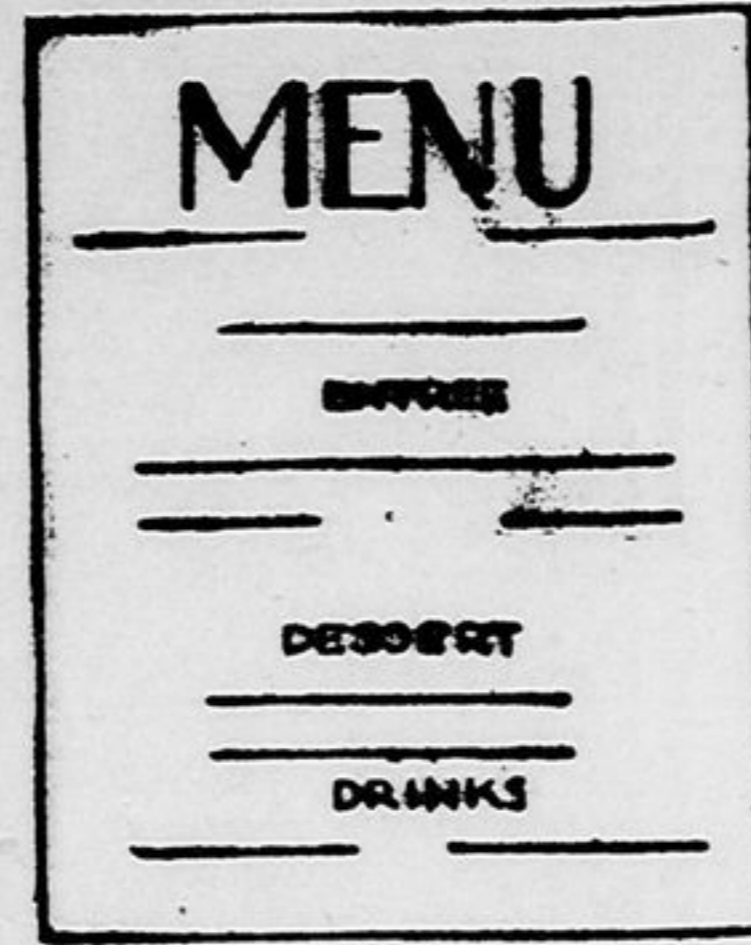
Green bones contain the natural juices as well as the adhering substances, making it superior to the bones that have lain on the ground for a while and lost all the natural juices or animal matter. Green bones are also more soluble and capable of having the mineral matter digested.

Logs on the ground burn on the end, or, where they lie across others, pockets burn out of the sides. A fire seldom destroys them, but it reduces their value between 10 and 15 per cent.

A day spent in running water furrows or opening outlets of drains is better spent than the same day given up to plowing in water.

Can You Recall What Your Dinner Consisted of Two Days Ago?

What did you eat for dinner two days ago? You enjoyed it perhaps, whatever it was, and then forgot it. You probably cannot name your menu afterward, can you?



The 164th Battalion left Orangeville Monday on a 13-mile march. The ladies of Dufferin and Halton counties are raising funds to buy colors.

Elizabeth Faulkner, wife of Jas. Salter of Palmerston, was found dead in bed. She died on her 56th birthday, and the 32nd anniversary of her wedding.

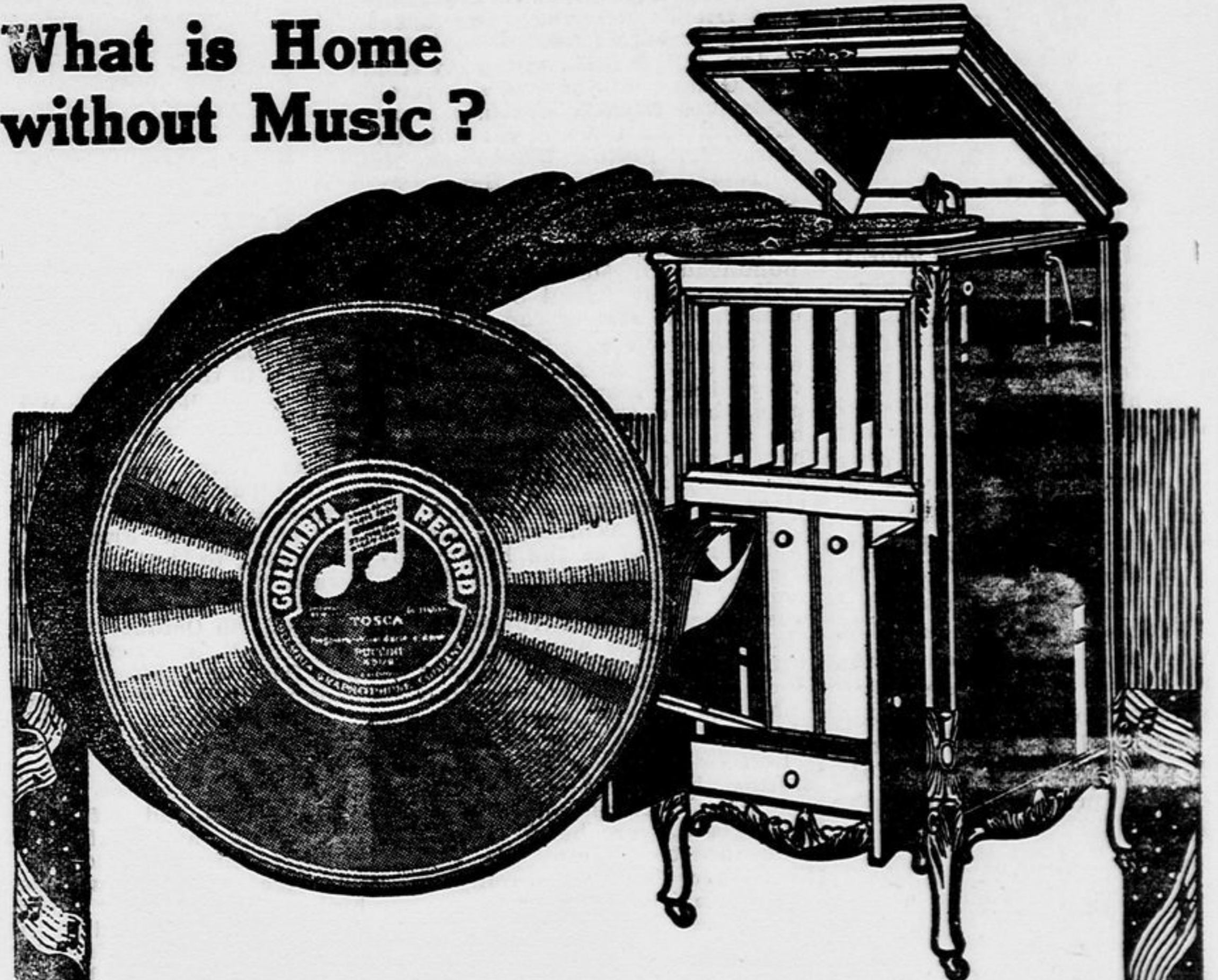
Clean, smokeless and odorless oven means perfect cooking and baking. This is assured by ventilation and the nickel-coated non-rust steel lining in

McClary's Pandora Range

It won't be hard to decide what range you want in your kitchen after I show you the Pandora's special features.

Sold by Lenahan & McKechnie

What is Home without Music?



COLUMBIA GRAFONOLAS \$475 to \$20 DOUBLE DISC RECORDS

Made in Canada 85c up Fit Any Machine

"HEARING IS BELIEVING"

The Columbia dealer nearest to you will gladly demonstrate. Very easy payments Little cash required. Dealer will explain terms. Send for a new free catalogue.

COLUMBIA GRAPHOPHONE CO.

"Creators of the Industry," "Pioneers and Leaders in the Art," "Owners of the Fundamental Patents."

CANADIAN FACTORY, TORONTO



FOR SALE BY H. J. SNELL DURHAM.

Nyal's Syrup of Tar and Cod Liver Oil

A valuable remedy for Colds, Coughs, Bronchitis. Fully guaranteed

35c.

Nyal's Cod Liver Compound

As a tonic and builder is one of the best repeaters we have.

\$1 - full 16 Ounces

BULBS for Fall Planting

Tulips Hyacinths Crocus Daffodils Lilies

Wall Paper for Fall Cleaning

Remnants in room lots at Snap Prices

Soap Value

Don't pay for fancy wrappers

Rexall Harmony Glycerine Soap

is an unwrapped Soap—all Soap Value

Especially suited for our particularly hard water

15c. a Cake 2 for 25c

Macfarlane's Drug Store The Rexall Store

C. P. R. Town Office—Buy your tickets here.

Save Your Coupon

EGGS IN

The best method for home use, or way, is to pack vessels and cover them with water glass and keep it in a prevent evaporation and those with can be preserve shells, even when will not keep well in the vessel make Stone crocks gallons make the eggs should be packed, but one can days. Many vi keepers buy a in the spring, cheapest and pr glass. Estimate each gallon ca The liquid water soda, which c most drug stor per quart, is u one quart with water. Rain w preferred.

IMITA

Inexpensive Me dow Window deco be made attrac imitation fire in when an indoor To produce su electric fan be the imitation a and run an ele



red globe att of the "flame" of Indian red lower ends of mass above th is turned on a stream of p paper ribbons to appear like sketch shows a heater. Th ash box and ducted through Mechanics.

HABIT

Establishing One of the man can form tain part of It's going to to form the from a small done. There and attractio adays that strength of motto, "I an that in the y something to And men ca salary if th of course, th a man with ness must b time live be fact that he thrift will t place, and h his ability t he has been Among the may be sa is none bet "He is a m thrift." T readily for imagine. B that a you character Miserliness, be abhorred be too larg fulness in which culti power in th him a char self to all.

Bes It is cla cious, juicy six pounds, grown, and young may be too larg however, th and thus m but it must articles ha lions' hider tory. Thorough fore planti results are low after-c All the o land are o Governmen miles of n In parts tened chie Indian ne with home