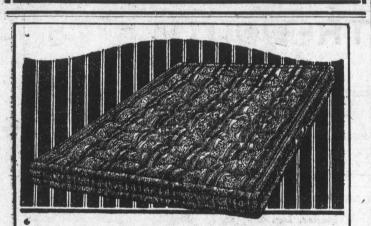
WATFORD GUIDE-ADVOCATE,

Catch That Cough ! At this time of year a cough is especially dangerous, because it is likely to hang on all winter, and may develop into a more serious condition. Take

NYAL CREOPHOS when the first symptoms appear, and keep on taking it until entirely well. Creophos relieves coughs, colds and bronchitis, and at the same time builds up strength and vitality.

Siddall Drug Co. TORE CLOSED AT 8.30 EVERY EVENING EXCEPT SATURDAY



Mattresses of Certified Quality

YOU should know the Mat-tress made by Simmons Limited-firm but soft, giving to all the contours, yet holding your spine level in any sleeping position.

SIMMONS BOX SPRINGS Built for Sleep-Made of the finest oil-tempered, double cone Spiral Springs. Conform to every contour, and hold the spine level in every sleeping position.

SIMMONS MATTRESSES Built for Sleep - Filled with layers of white felt, scientifically built up

Sweet and clean through and through-of materials sanitary beyond question.

Certified by the Simmons Label-your unfailing assurance of an absolutely sanitary mattress.

We offer a wide assortment of grades in Simmons Mattresses.

FRIDAY, JANUARY 5, 1923

OUR SUPPLY OF PEAT BOGS MAY YET BE USED TO

SOLVE FUEL PROBLEM.

There Are 36,000 Square Miles of Bog Scattered Throughout Dominion of Canada, and It Will Prove Valuable .When Some Method of Properly Draining and Drying the Peat Has Been Discovered.

It seems of late years that every ucceeding winter supersedes the last one in the intensity of its fuel problems. Every year we hear the dealers cry, "Coal Shortage! Coal Shortage!" and every year we are forced to pay more and more for every ton of coal that we must use. Unfortunately, we have been abjectedly dependent on the wishes and extortions of the coal barons of Pennsylvania, for though Nova Scotia and British Columbia both are possessed of coal deposits, the freight rates make delivery from those quarters a negligable consideration.

Thoroughly understanding the magnitude of the task before it our Canadian Government for some years past has been carrying on exhaustive experiments as to the practicability of using peat as fuel. For, although perhaps it is not generally realized, Canada is particularly rich in peat bogs. There are some 36,000 square miles of excellent peat bogs scattered throughout our Dominion, but of all the provinces, Ontario takes the lead in the quantity and quality of the great unused peat bogs which are found throughout her many counties; and it may be that at some future date, if experiments prove successful, Ontario will not only be providin herself with an excellent and cheap fuel, but will be able to send quan-tities to other parts of Canada as

well. Ontario's great wealth of peat bogs in width of distribution and extent in which of distribution and extent is not exceeded by any country of equal area in all the world. This is explained to a great extent by the great suitability of Ontario's climate for the formation of peat bogs. The long rainy seasons occurring twice a year; the long, cold winters to freeze over the bogs, and keep them in perfect preservation; and the long spells of heat and drought which help to dry out the peat; all these are excellent conditions for the perfection of peat bogs. These great peat bogs of Ontario are looked on by the wise eyes of the Department of Mines as quite capable of furnishing a na-tive fuel which would create a new industry of great magnitude, employ labor and capital on a large scale, and utilize resources which are now almost dormant. Of course, there are still some difficulties in the way, but we have the assurance of the Goverament that the peat question is receiving the most thorough consid-eration and investigation; while Prof. Wilson, of McGill University has assured us that within a radius of forty miles of Toronto are peat bogs which would yield approximately seven mil-

t is most sa tory. When hist process on the fire, it burns with a short blue fiame until the grate spaces are covered with em-bers, when it emits an intense heat, easily controlled, and a peat fire will not go out until every atom of fuel has been consumed. Peat makes no clinker, but leaves considerable clinker, but leaves considerable ashes, which are light and powdery; and one of its greatest adwantages is its price, for it has been estimated that peat should sell in Ontario for about three dollars per ton at the

place of production. Some attempt has been made in Ontario in the past to place peat on the market as fuel, and indeed, as far the market as fuel, and indexed, as as back as 1866 an attempt was made to market peat by a man named Hodges, but he met with little suc-cess. For the real and difficult prob-lem of peat fuel manufacturing lies in removing the water, and this prob lem has wrecked many a budding scheme for the use of peat. A grow-ing peat bog contains from 35 p.c. to 90 p.c. of water, and peat is so difficult to really dry, that it will appear to all intents bone-dry, while in reality 30 p.c. of water may re-main in it. Great heat is necessary to finally remove all the moisture, to finally remove all the moisture, and practically all the peat bogs of Ontario must first be drained before much work can be done on them. Before the war the Government had already experimented with suc-

cess at a small peat plant at Alfred, Ont., and peat fuel was delivered from there to Ottawa and Montreal rom there to Ottawa and Montreau at \$3.25 per ton, while in eighty-five days 2,400 tons of peat fuel were manufactured. This plant, however, was purchased by a private concern and closed down shortly after the war broke out, not only because of war conditions but because of manu-facturing difficulties as well.

facturing difficulties as well. The seven principal bogs of On-tario are Welland, Beaverton, Perth, Brunner, Brockville, Rondeau and Newington.

Leacock's Greatest Joke

I can't help congratulating Ste-phen Leacock on the making of his biggest and best joke to date, writes Londoner. /Though we have all laugh-ed consumately at his "Literary Lapses" and other enjoyable punniments, I don't believe anyone realiz-ed what a king of jesters we had among us till he electrified us the other day by calmly suggesting that our income-tax ought to be abolish-ed! Only a humorist from another country could safely have ventured on a joke like that. If a native one had tried it, he would have run serious risk of an enquiry into the state of his mind. But I wonder if Lea-cock himself realizes, even now, how funny he was?

To Market Honey.

It is expected that Ontario's honey crop next season will be marketed largely on the co-operative system, as a result of the activities of the committee appointed recently by the Ontario Bee Keepers' Association, and with the assistance of the Ontario Government. The honey will be graded and have a registered brand for the protection of consumers. Each package will have a dis-tinguishing number, by which it can be traced back to the producer.

Will Preserve Landmarks. commission whose duty it will

PAGE FIVE

WATER IN FARM HOMES Compression System Will Give General Satisfaction.

Water Pumped Into a Metal Tank Against Compressed Air-Various Methods of Working the Pump-Air Valves a Necessity - Seven Steps to Success In Poultry Culture.

(Contributed by Ontario Department of Agriculture, Toronto.)

In my last article I described briefly the attic tank system of water supply for the rural home. This system has given very good satisfaction in the past, but I doubt if it will be installed in many homes in the future, as there is now on the market something very much superior in many respects. I refer to the compression water system, which I will try to describe in a few words. How the System Operates.

The chief feature of this system is that water is pumped into a strong air-tight cylindrical metal tank against the entrapped air which is compressed in the upper portion of the tank, and the compressed air constitutes the power to drive the water out of the tank when a faucet is opened on the discharge line. This is opened on the discharge line, This is very simple. The metal tank will wary in size according to the amount of water used, but a common size is 6 feet by 2 ½ or 2 feet. It should be kept about full of water and at a pressure varying from 40 to 45 lbs. be secured by pumping the water to a higher level than named in the tank, or by pumping some air into the tank before any water is pumped

in. A water gauge is attached to one side of the tank to indicate the height of the water in the tank, and on the discharge pipe close to the tank is a pressure gauge. The tank must be kept in a frost-proof place say the cellar, or an underground pit. The water keeps cool, clean and fresh in this tight tank.

Methods of Working the Pump. There are many different ways of operating the pump in order to fill the tank: By hand, by windmill, by gasoline engine, or by elect ic motor. A few minutes of pumping each day by hand will keep the ordinary-sized house supplied with plenty of water. When the pump can be operated by windmill or electric motor, there is the great advantage of automatic starting and stopping of the pump. The automatic electric water systems of the present day are very conven-jent and also very efficient. In case of shallow wells and cisterns the pump and motor can be located in-ide the house or house. As formation side the house or barns. As farmers get electric current these automatic systems will become very common both for shallow and deep wells. The automatic systems require very little attention and are very noiseless. There are several styles or designs, but any of them of reputable firms will give good satisfaction if the in-

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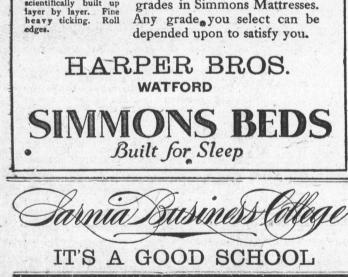
Why be

What

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stallation has been done properly



lion tons of peat fuel. In this Canada of ours we really

know very little about the use of peat as fuel, but we need only think for a few minutes about the lavish use of peat in the old lands to realize its utility and economic advan-tages. Scotland and Ireland have burned it in the ordinary air-dried form for many centuries. Germany, Holland, Russia, Denmark, and Sweden all use peat in ever-increasing quantities for domestic purposes, and also in steel and glass furnaces, firing locomotive boilers, generating electricity, and in these countries it is used both in its solid and gaseous forms. Russia uses 7,000,000 tons of peat fuel every year; Sweden uses over 2,000,000 tons each year; and trim little Holland, whose comely housewives are especially neat and thrifty, will use no other fuel, and only peat is used in the Dutch brickyard

As a fuel, pca+ tisfac

be to preserve ancient and historical landmarks in the Province of Quebec will be appointed, it has been an-nounced by Hon. Athanase David, Provincial Secretary.

A Large Elevator.

It is planned to begin construction this year, at Montreal, on what will eventually be the largest elevator in the world, with a capacity of ten millior bushels.

Thirty-five electric motors control the movements of the giant telescope recently installed in California for astronomical observation.

The little child of Frank McDon-ald, of Hastings, while playing with other children found some coal oil and drank some of it before the mother realized what the little one was at. Medical aid was at once summoned and the child is doing as nice-ly as could be expecte d.

If soft water as well as hard water is required under pressure, two tanks are necessary, one for soft and one for hard. Only one pump is required in this double tank outfit.

Air Valves a Necessity.

Pumps used in connection with compression systems must be provided with an air valve for renewing the air in the tank because the air dissolves in the water and escapes with it. If means for pumping in air were not provided for, the tank would eventually become waterlogged and the system would be ren-dered absolutely useless.

The compression water system is described and illustrated in Bulletin 267, entitled "Farm Water Supply and Sewage Disposal." A copy may be secured without cost by dropping a line to the Department of Physics, O. A., Guelph, Ont. Give us a chance bi help you to solve you: water sup-ply problem.—R. R. Graham, O. A. College, Gueiph.

Seven Steps to Success In Poultry Culture.

1. Keep accurate records. Little progress can be made without this first step.

2. Feed a properly balanced ra-on. Such a ration furnishes nutrients for growth, maintenance, fatten ing and eggs. The production of eggs must be a constant aim.

3. Give proper care and comfort by good housing and management. Discomforts are: Extremes of heat and cold, hunger and thirst, four air and dampness, and diseases and parasites.

4. Keep standard-bred, utility stock. There are five good breeds for the farm: Plymouth Rock, Rhode Island Red, Leghorn, Wyandotte and Orpington. Varieties of these have been bred for heavy egg-production. 5. Breed from the best, both male and female

and female. 6. Sell unprofitable stock 7. Market graded produc

7. Market graded products. Maxi-mum returns are accured from grad-ed products. Markets demand a con-stant supply, and this calls for com-munity co-operation.

Would it surprise you to know that it is possible to see your voice? If, when you say "Central" into your iciephone, you could see the effect of your voice on the delicate current that is passing over your line, it would ap-pear something like the diagram. Suppose you spoke into a telephone and heard your words repeated, built minus all the "vowel" sounds or with

HOW MUCH TALK WILL MAKE A CUP OF TEA?

is possible to see your voice?

sciephone, you could see the effect of your voice on the delicate current that is passing over your line, it would appear something like the diagram.

all the consonants dropped. Would be makered to find the explained the equivalence of the unit tated, he explained the equivalence of the unit tated, the energy of the voice yon must realize the energy of the voice of the

a million people talking at one time in one place would make? What use is made of the tongue, lips, etc., in pro-ducing the various parts of speech? piece of human hair just one third as made of the tongue, lips, etc., in pro-ducing the various parts of speech? The top of the various parts of the various parts of speech? The top of the various parts of speech? The top of the various parts of the

