### CHEAPLY

would have been niture was never us, at least.

TOU e for \$30.

or \$11,

edstead for \$2, or : airs, Hall Furniture. in Mattrasses.

& CO. near the Market.

dinary surroundings essor Ruskin and other

EY&Son ne Street.

AL

ns is a revelation; in fact al Industrial exhibition in flections of anyone wh nent and makes a tour o

ound there, from a twenty

articles at prices to sui

ive warerooms on Notes lent display of

nd Combination Chairs

assortment of

NITURE

parlor suites. Odd piec vans, tete-a-tetes, piano an amasks of all the news entre, card and work-table stands and easels.

ocking, Easy and Reclinia telebrated bent wood furniwhich the Messrs. McGarnent position on this floor.

ofusion are to be found from set valued at fifteen hun which they have just recent ham, England. is an especial bedsteads and pretty col ey are of the newest designs. to much higher figures, ca this house is that the pr narked in plain figures, et west, which will necess ow offering special induce trked prices. The entire order prevailing everywhere nodate the enormous stoo ers can select at their liberty d not only a great covenience customers to any of their st

this well-known house is a only the last thing aimed a ley are to be found in the old

rey & Son.

ier of McGill street.

With the use of a proper grade of fine salt and a better knowledge of packing, Canadian butter would speedily take the lead here.—English opinion.

# BUTTER-MAKERS,

### USE THE BEST SALT. IMPORTANT.

Shippers say so. and common-sense clinches it; the English buyer says so, and your reputations as makers of good butter that will sell at renumerative prices in the old country markets depends upon its use. Poorly salted butter will not keep. It would be hundreds of thousands of dollars in the pockets of Canadian farmers if they would attend to this matter of salt.

Now that the American market is practically closed to the Canadian farmer for many articles of produce, it is particularly necessary to study the requirements of the English dealers. Canadian Cheese occupies a front rank—there is no reason why Canadian Butter should not also be sought for in preference to that of other countries.

For some years past we have made it a point to keep a reliable article of fine Dairy Salt—Ashton's—with satisfactory results. It comes a little higher in price, of course, than the common, coarse article so generally used and condemned, but it pays in the end. There's really more money for us. as dealers, in handling the coarser grades. but it would not be like us-we always aim to keep the best. Try a sack of it this spring.

### TEAS AND SUGARS.

Its surprising the values we have to offer you in Teas and Sugars, the poor man's luxuries. Brands of Teas equal to what formerly sold at 50c and 75c a pound can be had at 25c and 25c. Teas and Sugars we make a specialty of, buying the 100 chests and the latter by the hundred barrels.

# A. CAMPBELL, FAMILY GOGER.

### Opening ring a visit to the mag-ture house of Messrs. Spring

### NEW CARRIAGES, WITH TOP OR OPEN

LOCONNOR has ready for his customers a full line of the finest and most substantial

froom set, and prices to be found in this part of the Province. His work is so well-known in old age, and is a good that it is scarcely necessary to say that he uses the best material and n furnish his house from workmanship in the construction of all kinds of Vehicles, and conseand his junior clerk car quently will not keep on hand an article that he cannot guarantee.

BOOKCASES, Wardrobes which cannot be beaten for easy draft, material or workmanship. All he above will be sold at the lowest living prices. Call and examine in the market can have it adven rticle and prices and be convinced.

> REPAIRING ATTENDED TO ON THE SHORT-EST NOTICE.

L. O'CONNOR.

Lindsay, April 5th, 1892.—14-tf.

PRINTING OFFICE,

LINDSAY.

-FOR ALL KINDS OF-

# JOS. COOPER,

PROPRIETOR.

REAL ESTATE NSURANCE. & FINANCIAL ACENTS.

The North Bri tish and Mercantile incor- Lindsay Dec. 30 1890-1-tf. can Co, in exist ence. porated 1809, pai d up capital abt. \$3,500,000 total assets \$50,: 176,064. The N B & M is the largest and s. trongest Co, in existence. of high standing, and can give safest se-

### KNOWL

LIFE INE SURANCE. The Confederation Toronto, 'ssues Policie three years. PREE fro as to RESIDENCE, TRAV. The New Annuity L affords absolute protect gency of early death, pr investment. Rate 15 to 20 per cent lc ary rates.

### KNOWLSON

REAL ESTAT We have a large list of va ing Lots, Brick and Frame dw Farm properties, and choice l

geon Lake, which can be ha cash, or mortgage at a low rate MONEY TO LOAN at a low rate

Persons desiring to place thei. us at a small commission,

Represent the Beaver Line of Stea plying between Montreal and Liv. Boats large and well equipped and rates of passage.

Represent the Norwich & London dent Insurance Co. Capital \$1,000 Rates extraordinarily low and security

OFFICE WILLIAM-ST. NORTH OF KENT STREET Lindsay, Nov. 19th, 1890.-45-1y.



Apollos of strength and form, but all may have robust nerves and clear men. The methods are our own exclusively, and where 11.05 P.

anything is left to build upon, the and Sate worry, etc., forever cured. Full THE NOR en to every organ and portion of the and modern thre (sealed) free. Address,

### KNOWLSON BROS.

FIRE INSURANCE.

The Aetna Fire Insurance Co., of Hart ford, Conn., in reorporated 1819, losses paid in 71 years ab out \$65,000,000, assets over \$10,000,000, abs, olutely the strongest American Conn.

We also represe nt other Fire Companies and can give safest security for the lowe st rates.

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wer than ordin-

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uluable Build elling houses, ots on Sturd cheap for

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health and strong minds. Our treat- Cobou ment makes such 10.30 RET

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VIGOR OF MEN is easily, quick-on New 1 lines. CA. restored. Weakness, Nervousness, on Monday Debility, and all the train of evils from early errors or later excesses, the result of over-work, sickness, from Agents strength development, and tone giv- mers on the lake body. Simple, natural methods. Immediate improvement seen. Failure impossible. 2,000 references. Book, C. F. GILDERSL. explanations and proofs mailed

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Best Cough Syrup. Tastes Good. Use in time. Sold by druggists.

CONSUMPTION S

THE QUESTION ANSWERED IN

SCIENTIFIC WAY.

An Ingenious Process for Phtaining Cel-

lulose and Oxalic Acid from Vegetable

Fibres Contained in Wood-A Column

Every one of these wires that are passing

let to produce a commercial product, the

simply because there is a magnetic circuit

ampere, or 1,000 amperes.

An Ingenious Process.

According to the Bulletin Fabrique

to the line.

for Scientifically Inclined People.

### or all the time. Big money for workers. Failure unknown among them. NEW and wonderful. Particulars free. H. Hallett & Co., Box 880 Portland, Maine P. TULLY,

Dealer in Fresh and Salt Meats. Orders delivered to any part of the tow

-5th door east of the market.

Accident Insurance. The London Guarantee and Accident In surance Company of London, England is meant a type or pattern of one of the Capital \$1,250,000. Liberal policy-Bonus

weekly compensation and \$1000 in the event of death by accident. JOHN D. MACMURCHY Gen eral Agent, Lindsay

HAVE YOU BEEN

to see the new landlord at the

The dining room is first-class, accommo dation unsurpassed. People stopping at as the armature in the above case is noththis house will be used nicely. Large sheds, ing more or less than a succession of wires ample room. Welcome to all that stop at lying side by side around the entire ring, lying side by side around the entire ring, which ring is revolved between the faces Geo. Carr's. Waverly House, Kent Street,

TERMS-\$1 per day.

in front of the magnet being after all only VALUABLE FARM WITHIN a continuous winding around the iron wire the windings is collecting, as it were, a A Two miles of Haliburton being comcertain amount of current from such magposed of Lot No. 23 in the 5th concession nets, and as this current must have an outof Dysart, containing 100 Acres, 60 of which are cleared and in a good state of cultivation, and in a good lecality. There are on the place all necessary buildings in a good state of repair.

Apply for further information to Wm. BEAMISH,

On the premises.

### 99 Kent Street, two doors East

Life Association, of a loss of the New City Restaurant, where you to the New City Restaurant, where you will find the premises thoroughly renovating the armature which are revolving in the field magnets with magnetism to saturation, or nearly so, with magnetism to saturation, or nearly so, in consequence of which we have the wires of the armature which are revolving in the saturation. EL OF OCCUPATION.

Indownment Policy

to the New City Restaurant, where you will find the premises thoroughly renovative and nicely fitted up for the comfort of ed and nicely fitted up for the comfort of the armature which are revolving in front of it charged with a current, as explained in the first part of this article.

The choicest chocolates and creams also the next question from one who is not the next question from the nex

ion against continovides an INCOME
ways kept in stock, and all kinds of Homeinvestment
investment established from pole to pole through the intervening air space, which for convenience

W. E. MURPHY Lindsay, April 20, 1892.

### M.R. RICHARD HUMPHREY'S

Having removed to the South End of Skitch's Row

WILLIAM ST. Lindsay, will receive pupils there for

PIANO ORGAN, VIOLIN, ETC,

or will visit pupils at their homes. Would invite the public to see STOCK mships of MUSIC, both Classic and Modern, which he has for sale, and will furnish both MUSIC and INSTRUMENTS at

1,000, leasonable prices. Pianos tuned.

FOR - ROCHESTER

Magnificient New Steamer

### JORTH KING.

ming Monday April 25th, will leave hence the name eletro-magnet, meaning a A.M., on arrival of G.T.R. Trains only.

urday at 4.15 P.M. Connects at of alternating current dynamos, some have M., except Tuesday at 9.40 P.M., two poles, others more, and as in the case r with early trains for all points quite a number, they being then known as ork Central and all diverging multipolar (many poles) machines. LLS at Brighton and Colbourne and Wednesday Morning and for the purpose of collecting the current, and Wednesday Mornings for ening from Rochester. Rochester,

TH KING is one of the transfer t and most powerful stea- a layer of mica or some other non-conducs. Lighted by Electricity tor.—Electrical News.

oughout. TCHOLSON, Pass. and Fgt. Agt.,

EEVE PORT HOPE. table fibres contained in wood has been in-Manager, KINGSTON. LOR,

nt, Lindsay.

ate product to a further treatment, for the purpose of removing the remaining incrust-A DYNAMO? ing matters from the cellulose. In the management of the acid liquid, the plan pursued is to set it aside and subseque tly subject it to a process for recovering the oxalic acid. The latter, dissolved in the weak nitric acid, can be obtained direct in the crystalline form by repeatedly making use of the separat I acid liquors for the treatment of fresh wood.

THRUST INTO THE FIRE-BOX.

How Engineer Scovel Got Rid of the Man

There are no doubt quite a few men running electric light and power machinery He Had Run Down. successfully, who are at sea as to the man' Engineer Smith told a story of how ner in which each part of the dynamo per-Mexican railway operators dodge responsi-hility. "Jim Scovel," he said, "was runforms its required duty, and also the relation which one part bears to the other, and ning a freight on the Central and had a how and why it produces an electric curcrew of conductor, fireman and two brakerent for either supplying electric lighting One night about a year ago Jim was by means of the lamps, or power by means of motors. The purpose of this article, running through a big sheep and goat ranche, in the State of Durango, near Perthen, is to make such an explanatious as it alta, when he saw two figures on the track is hoped will be the means of enlightening near a switch. He thought they were railroad men and blew for them, but they them in this particular. For this purpose there has been selected the plain Gramme seemed dazed. Jim then saw they were ring armature machine; by Gramme ring greasers and he blew for brakes and reversed, but the train was on a down grade original dynamos built some 12 years ago and there was no help for it. The engine by M. Gramme, of Paris, and which construck one of the men and killed him outright; the other was shunted off into the every five years, \$5 per annum secures \$5 sisted of two electro-magnets, whose poles ditch, and when they backed up he was or extremities face each other, and between still living but unconscious. His head was which is revolved a ring, consisting of either fine iron wires wound around a cast crushed, and it seemed every bone in his iron spider or frame, or laminas (layers) of sheet iron clamped together in the same body was broken. Of course the magnitude of the affair impressed Jim Scovel. He knew he was 500 miles from position, and bolted to the spider or frame, this ring then being wound with insulated home. Fortunately it was a freight copper wire of propersize, for the current and train and the accident had occurred at night in an isolated place. The voltage required, in a diametrically opposite train crew got together around the tank of direction to that occupied by theiron wire or the engine to discuss the situation. They laminas attached to the spider. This brings complish in the part it plays; it is a well were in great doubt. Jim Scovel said the wounded man ought to be taken to the next HOUSE complish in the part it plays; it is a well known fact that when a wire is passed station and he would take the consequences. But the conductor said that would never de over the face of a magnet, that a current -they would all be jugged. Finally a is produced or generated in that wire, and brakeman, who had read somewhere once upon a time that in order to establish a be seen that as they pass along the face of the magnets a current is continuously produced therein, which current will flow in either a positive or negative direction, ac-

charge of murder it was necessary to have a corpus delicti, suggested that it might not be a bad idea to dispose of the corpus delicti there and then. He looked significantly at the fireman, and the latter, taking the idea, proceeded to shovel coal into his furnace. Jim Scovel objected to this, but cordingly as either the positive or negative pole is being passed by the wire or wires. finally gave way to the extent that the man, already dead, should go into the furnace, though he did not like to have the fire grates deluged with greaser grease. Then came another deliberationas to the wounded man. He was yet unor lamina, it also follows that each one of conscious, and his death inevitable, but he still breathed. Jim Scovel put his ear to his heart, and said: 'Boys, it will never do; the man's alive.' 'Can't help it,' segments of the commutator with the said the conductor, 'he'll never know anything again and we can't wait here.' The brushes bearing thereon are so arranged that as these wires one after the other are breakman who had discovered the corpus delecti theory agreed with the conductor; so did the other brakeman, and the fireman about to pass out of the magnet's influence, they make contact with the proper segsignified his acquiescence by shoveling in more coal. Meantime the man who was alment and take the discharge from the wires. ready in the furnace had raised the steam The fields or magnets spoken of above, to that pitch where it lifted the safety valve are simply a mass of iron, either cast, or and was blowing off in a way to drown all wrought, or laminated, wound with insulated copper wire, through which is passed continuously a small part (or all) of the

"'Shove him in!' yelled somebody, and in went the man who was yet breath-

current that is being generated by the armature as explained above; this then produces an electro-magnet, or in other Mr. Smith says that Jim Scovel afterwords charges the iron of the field magnets ward told him that for the next fifty mlies that engine wouldn't make steam. She was cranky and stubborn, and when they got to the shops they had to take her apart and clean her from piston head to fire-box. But the corpus delicti was disposed of, and to this day probably the governor of that estado does not know of the incident .-Chicago Herald.

Squaring the Circle. The origin of the problem is almost lost in the mists of antiquity, but there is a record of an attempted quadrature in sake is called the passage of lines of force invisible to be sure, but nevertheless known to exist—these lines always taking a direc- Egypt 500 years before the exodus of the cutting of which by the wires of the arma- Hone, that the problem was solved by a ture being then the cause of the cur- discovery of Hippocrates—the geometrician rent produced in those wires. These lines of Chios, not the physician—500 B. C. of force would take an extended rotary Now, the efforts of Hippocrates were devotpath, or to be more explicit, a widely sep- ed toward converting a circle in a crescent, arated one, were it not that the iron wire because he had found that the area of a figor lamina of the armature has such an at- ure produced by drawing two perpendicular traction for them, that they are concentrat- radii in a circle is exactly equal to the tried or bunched, and brought into close rela- angle formed by the line of junction. This is the famous theorem of the "lunes of tion with one another, the result of which is that the copper wire of the armature has . Hippocrates," and as, Glauber's salts out of the advantage of being able to cut through the philosopher's stone, and example of the nearly all of them; we say nearly all, be- useful results which sometimes follow a

cause it is a well known fact that some dy- search for the unattainable. The oldest mathematical book in the projections are so close together that there world is believed to be the "Papyrus namos are so constructed that their pole is more or less of a leakage of magnetic Raind" in the British Museum, professed current from pole to pole that should and to have been written by Ahmes, a scribe of otherwise would pass through the armature King Ba-a-us, about the period between and do service in increased current at the 2000 and 1700 B.C. This "Papyrus Rhind" brushes. From the brushes the current was translated by Eisenlohr of Leipsic passes to the line. Of course there are dif- few hundred years ago, and it was found to ferent windings and arrangement of arma- contain a rule for making a square equal in ture wire than those spoken of above, but area to a given circle. It was not put forth the principle governing all of them is about as an original discovery, but as the transthe same, be the dynamo an arc or an in- script of a treatise 500 years older still, csndescent, an alternator, or a generator, which sends us back to approximately, be it either for 10 volts or 5,000, or 1-100 2500 B.C., when Egyptian mathematicians

The electric magnet spoken of above is a problem of squaring the circle. mass of iron around which is placed spools The rule given by Ahmes requires that of insulated copper wire, and through the diameter of a circle shall be shortened which is passed a current of electricity, by one-ninth and a square erected upon this either from a dynamo or a battery, which shortened line. The area of such a square current makes the iron magnetic, but only course is not exact, and is not even as close as long as there is current passing through a result as that at which other geometrithe wire; the moment the circuit is discontinued the magnetism in the wire ceases,

cians have arrived. The Babyloniane, who were also great irg at 8 A.M., and Port Hope at magnet produced by an electric current mathematicians, had a solution, to which a URNING—Leaves Charlotte at copper wire, so that some dynamos have circumference.—All the Year Round.

The Gulf of Mexico has risen over one The commutator of a dynamo is that foot since 1851. The average lite of a tradesman is about part of a machine on which the brushes bear

two-thirds that of a farmer. The ant is said to have the biggest brain, which are built together in the form of a according to size of its body, of any crea-

The youngest New York burglar is said insulated between each piece or segment by to be a 9-year-old lad captured a few days

A Tiffin, Ohio, man carries a gold coffin screw 100 years old for luck. He found it in a graveyard. There were at the beginning of last year Papier, an ingenious process for obtaining 8,097 artesian wells in the western states

cellulose and oxalic acid from the vege- and territories. It is proposed to police Pennsylvania aveacting on wood with dilute nitric acid, in nue, Washington, with patrolmen who are

the presence of sulphuric acid, separating over six feet high. the intermediate product from the acid The sole personal effects of a man who liquor which contains in solution the oxalic died in Auburn, Me., recently were a Bible acid formed, and subjecting the intermediand a pack of cards.