

TO PURIFY SEWAGE. A SCIENTIFIC METHOD OF TREATING THE WASTES OF CITIES.

The Important Work of Cultivating Microbes for the Destruction of the Noxious Properties of Organic Bodies. An ingenious as well as scientific method of treating sewage is now being fully tested in England.

In a recent report on the system by Dr. Alexander C. Houston, Edinburgh, quoted by London Engineer, the part played by the liquefying organisms is described as sufficiently obvious.

Recognizing these principles Mr. Scott-Moncrieff has applied them to constitute a plan for the bacteriological treatment of sewage.

It might be expected that so small a filter would soon become clogged with a nuisance would be created. But Dr. Houston states that the reverse of this happens.

Practical Results of Importance. Recently a nitrifying channel 80 feet in length, was started, and was filled with coke and sand.

Dr. Charcot's Life. Prof. Charcot, the celebrated specialist in mental and nervous diseases, of the Salpêtrière hospital, whose death has been announced.

Russia's Regiments of Specialists. An account is given in the Vienna Presse of what is described as the formation of certain corps in Russia.

Suicide Statistics. Suicide statistics, as recently published by an English doctor, show that taking the entire population of Great Britain there is an attempt made every three minutes on an average by some one to take his own life.

It still stands. Among the many exhibits that attract the attention of the merchants is that of the National Cash Register.

On Monday next Mr. Charles M. Henderson will offer at public auction the household effects of Mr. Henry W. Darling's estate.

It is a well-known fact that the household effects of the late Mr. J. P. Macdonell were sold at public auction at the residence of the late Mr. J. P. Macdonell.

PROGRESSIVE IDEAS.

Notes of the Forward Movement in the Art of Sewing.

This list of new uses of aluminum as of electricity, continues to rapidly extend. The metal is said to serve excellently as a tooth-stopping medium.

Glass curtains, observes London Inventors, are a novelty in household furnishings. They are in colored glass, and have the effect of clean white curtains.

Power from a Swiss River. An important scheme for the transmission of power is now being considered in Switzerland.

England to Build 'Electric' Warships. Work will soon be commenced at the Royal British Dockyard, at Chatham, for the construction of the new 'twice-over'.

Copenhagen, owing to its isolated position in the heart of Scandinavia, it is not only a port of a Danish territory, but also a port of a Swedish territory.

Statistics of Great Britain. The estimated capital employed in gas manufacture in Great Britain has reached an amount of £1,000,000,000.

Lord Salisbury's French Villa. Lord Salisbury, as usual at this time of the year, has retired to his French villa, the Chalet.

Dr. Williams' Pink Pills. The general tactlessness of the owner of the Chalet Hotel has long since ceased to be a public service.

The Inspectors of Expenses in Ontario. At the last session of the Ontario Legislature, Mr. A. F. Campbell, the member for Brock, from his place on the floor of the House.

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99 AND 18.

TWO EXPERIENCES IN KEMPTVILLE OF INTEREST TO OTHERS.

Mr. Hugh Brownlee Tells How He Was Cured of Rheumatism After Much Suffering. Miss Della Main Suffered From Double Ticca Main Suffered From Double Ticca Main Suffered From Double Ticca.

One of the best-known men in the County of Grenville and the adjacent County of Carleton is Mr. Hugh Brownlee of Kemptville.

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FITS.

BY JIMMY JAGS.

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James Eaton's Perfect Floor. 88 YONGE STREET. Still They Come.

Another Exhibition gone—more than ever successful—so with us. Year by year we grow on the great people's liking.

The Bargain Store of Toronto will be James Eaton's MONSTER Shoe House. 214 Yonge-street. This Evening Until 10 o'clock.

The Greatest Display of Ladies' Felt Hats. In all the Most Fashionable Styles. Ladies' Felt Hats 25c, regular price 75c.

Home Comfort. Ladies' length Jacket in the newest styles \$3.90, well worth \$5. Ladies' length Jackets, extra fine goods, \$4.90, regular price \$6.50.

Steel Family Ranges. Made almost wholly of malleable iron. Lifetime if properly used. Sold on our own ranges.

Timms & Co. Great Value in Ladies' Waterproofs. Ladies' Fine American Vests, full sizes, worth 50c for 39c.

James Eaton. 88 YONGE STREET. Ever and Always the Cheapest.

MAINTLES, JACKETS, CAPES, SEALETTES, SILK SKIRTS. JUST OPENED. N. ROONEY, 62 YONGE STREET.

Barker & Spence's Shorthand and Business School, 12 King-street west, is the best place in Toronto for obtaining a shorthand or business education.

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For Rent. Two Flats. EXCELLENT LOCATION WITH OR WITHOUT POWER. Apply 28 FRONT-ST. WEST.

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Private Medical Dispensary. Both sexes can obtain treatment. Indolently neglected in the early stages of a venereal disease.

The London & Ontario Investment Company (Ltd.). The shareholders of the above company are hereby notified.

Loan Companies. THE CANADIAN HOMESTEAD LOAN AND SAVINGS ASSOCIATION. OFFICE: NO. 7 KING STREET EAST.

Sale by Tender of Valuable Freehold and Leasehold Property. Tenders will be received by W. A. Campbell, 39 Front-street west, Toronto, Ontario.

Notice to Creditors. In the Matter of the Estate of Margaret Hocking of the City of Toronto, deceased.

Notary Public. SAULT STE. MARIE CANAL. Sealed tenders, addressed to the undersigned and received by him on or before Thursday, the 15th day of September, 1893.

Notary Public. In the Matter of the Estate of Mary Jane... NOTICE TO CREDITORS.

Notary Public. In the Matter of the Estate of Mark... NOTICE TO CREDITORS.

Notary Public. In the Matter of the Estate of William John Macdonnell... NOTICE TO CREDITORS.

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THE FAIR OF THE FUR.

DURING THE PAST TWO WEEKS

THE HATTER AND FURRIER,

Has done an immense trade. Crowds have daily visited our establishment and nine out of every ten have proved purchasers. To visitors remaining in town to-day we will offer a fine line of Fur Goods, consisting of

FINE SEAL MANTLES, PERSIAN LAMB COATS, BEAVER, OTTER, SABLE AND OTHER VALUABLE CAPES, GENTS' FUR COATS, CAPS AND GLOVES, SEALETTES, BOAS, ETC., ETC.

AN IMMENSE VARIETY OF SLEIGH ROBES.

WE GUARANTEE ALL FURS OF OUR OWN MANUFACTURE. WE SELL ALL GOODS AT MODERATE PRICES.

FURS OF ALL DESCRIPTIONS FROM THE VALUABLE SEAL COAT TO THE NATTY SEAL GLOVE.

OUR AMERICAN COUSINS should not fail to visit us before they leave as we can supply them with Fur Goods at a saving of Fifty Per Cent.

W. & D. McNEEN, KING and YONGE-STREETS.

THE FERRIS WHEEL.

Comparative Measurement and Weight of the Great Wheel.

It is not easy for the mind to grasp the stupendous nature of this undertaking. The wheel itself is 350 feet in diameter; at its highest point it is 398 feet above the earth. That is to say, if Bunker Hill monument were used as a yardstick to measure it, the towering monolith would fall short 50 feet. If the wheel were set in Broadway, by the side of Trinity square, it would lift the passengers of its cars to a level with the obelisk or Luxor or Trajan's pillar, at Rome, would not be long enough to serve for a radical spoke.

Then, again, as to its enormous weight. The Niagara cantilever, just below the falls, was looked upon as an engineering wonder when it was built. Its construction required three years. The Ferris wheel was built in five months, and its weight is four times that of the Niagara bridge. The St. Louis bridge is another wonder, and its weight is about equal to that of the big wheel complete. The Cincinnati bridge is another wonder, and its weight is about equal to that of the big wheel. The Ferris wheel is 1400 feet, a quarter of a mile long, and it would balance the scale with the Ferris wheel. And the one is almost immovable, resting on two supports, while the wheel is swung upon axle lifted 140 feet in the air. It has 36 cars, and in these two segments of solidly could be seated and swept with an almost imperceptible motion high above the white world.

I said: "Precisely what does the great wheel represent in mechanics?"

"Well, Mr. Ferris replied, 'I suppose you might consider it as typifying the present progress, the latest development of mechanical engineering. You know there are really two wheels, one built 30 feet within the other. These are joined by truss work, such as we used in our finest bridge construction. Beyond all that, the wheel develops to a degree hitherto never reached the capacity of tension spoke. You know that the wheel is not only a perfect pinion wheel, but a tension wheel as well. It has 36 cars, and is perfectly adapted to its chief points. I do not know whether you have stopped to consider, but it is, instead of stiff spokes, the tension or jointed spokes. When I first proposed to build a tension wheel of this diameter the feat was regarded as impossible. It was held that the spoke rods on the upper side of the wheel at any given moment, instead of sustaining the weight of the upper part of the wheel, would, from their own weight as they hung vertically, pull down the inner part of the wheel which they bore upon, and thus cause the wheel to become elliptical. As a matter of fact, the spokes, instead of pulling down, are actually pulling up. There is absolutely no deflection from the perfect circle.

"Considering some of the mechanical difficulties in the construction of the wheel, you will note that it stands directly east and west; thus the southern side of the wheel receives the entire brunt of the sun's rays, whereas, as the northern side is not only shaded by the southern but by the cars as well, causing a difference in expansion varying from the heat to which it is subjected of from three to six inches. All these little problems had, of course, to be met, for even this slight variation of five or six inches in the total diameter of 350 feet would be sufficient unless properly dealt with to cause a disturbance in the working gear."

"Behind the shell there was an animal and behind the animal there was a man," wrote Thaine. Behind the big wheel there is a personality more interesting than the mechanism itself. Physically Mr. Ferris has little of the inventor type. The man you meet is a man of affairs, tall, well-proportioned, and well sent out. He greets you easily, his demeanor is quiet, his tones low. For a western man he is rather fastidious in his dress. In him you detect a little of the western singularity, perhaps; for the rest, that bearing of easy confidence and mild cynicism which success always brings. Perhaps his most notable characteristic is a steel blue eye of remarkable depth and clarity. Withal there is about him a something of that naive, almost boyish candor that is such a striking characteristic of Edison. His conversation is fascinating. In a quiet sentence he opens unexpected vistas, or turns the corner upon an idea so novel that it is startling. As he speaks, in evenly modulated tones, fluently, and often epigrammatically, you feel yourself in the presence of a man surcharged with ideas. —From Engineer Ferris and His Wheel, September Review of Reviews.

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IS THE POPULAR SUBSTITUTE FOR LARD.

ALL THE COOKING OF THE SAUNTS AND APOSTLES PR- AISE IT, SO DO DIET-ETIC SIN- NERS AF- TER THEY HAVE USED IT, SO DOES EVERY BODY WHO HAS TRIED IT. TRY IT YOUR SELF AND SEE.

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SHERRIES, PORTS, BRANDIES, GINS, RUMS, SCOTCH AND IRISH WHISKY, CLARETS, STILL AND SPARKLING BURGUNDIES, HOCK AND RHINE WINES, CHAMPAGNES FROM \$12.00 PER CASE UP.

And the Finest Brands of

Besides other lines too numerous to mention, in all of which we are prepared to beat the lowest market quotation, making it an object for everyone in the trade getting our prices before placing their orders. Our Specialty "STAR" Whisky, guaranteed matured, 10 years in Sherry Casks. We are still at

46 COLBORNE-ST.

Where the largest stock of fine goods in the Dominion can be seen, both in BOND AND DUTY PAID.

Stoves! Stoves! Stoves!

The Largest Assortment in the City. Buy the

AMERICAN - WARRIOR - RANGE

With Patent Improved Grate. Over 3000 Sold in Three Years in 1894

The Nolan Warrior, The Dandy Warrior, The Acadian.

New Square Base-Heating Stove, All for Sale by

NOLAN & CO., - 77 Jarvis-st.

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Window Shades

Are Now Occupying the Commodious Factory, No. 1012 YONGE-ST

And will be able to fill all orders entrusted to them.

RUPTURE

Messrs. AUSTIN & COX, Manufacturers of Trusses, Artificial Limbs and Surgical Appliances, 121 Church-street, Toronto.

DEAR SIR, - I am only too glad to inform you that the truss you put on me two years ago was the means of curing me of a RUPTURE that I was troubled with for a long time, so that I was enabled to do almost any kind of work. I would not part with it for ten times its cost if I could not get another. If any person wishes more particulars send them to me. I will only too glad to give them proof. Anything I can do to recommend your truss I am willing to do. Hoping you may be speed to continue your noble work, I remain

Yours truly

MRS. JAMES FOWLER, Waterdown, Ont.

WINDOW GLASS

We have just received the last shipment of Glass for this summer and our stock is now complete in all sizes and qualities. Get our prices.

STEWART & WOOD

GLASS AND COLOR MERCHANTS, 82 AND 84 YORK-STREET.

THE DUCHESS OF OXFORD AND Kitchen Witch Ranges

1893 LEADERS

Large Ovens Quick Working Ovens Grand Bakers Great Water Heaters

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NEW PATENT FLUE CONSTRUCTION.

The Most Perfect Working Ranges in the Market

The Gurney Foundry Company, Toronto.

Show Rooms 500 King-street West.

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Wheeler & Bain, 179 King-street east; Thomas Sturgeon, 438 College-street; George Boxall, 202 1/2 Yonge-street; Levi Washington, 641 Queen-street east; W. H. Sparrow, 87 Yonge-street; Harley Bros., 431 Spadina-avenue; W. J. Hallars, 200 Queen-street west; R. Fischer, 123-124 Dundas-street; Roseburgh & Sons, 272 Queen-street west; J. S. Hall, 1097 Yonge-street; A. Welch, 304 Queen-street west; Gibson & Thompson, 435 Yonge-street; Joseph Harrington, 619 Queen-street west; S. Geer, 1184 Queen-street west; S. Hobbs, 1424 Queen-street west; John Adair, 829 Bathurst-street.

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Represents financial stability throughout the world. "As Safe as the Bank of England" is a universal proverb. In the same way the name of

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Has come to be recognized throughout Canada as a synonym for superiority, quality and excellence of everything bearing that name.

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OFFICES:

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- 793 Yonge-st
- 306 Queen-st east
- 578 Queen-st west
- 1352 Queen-st west
- 419 Spadina-ave
- Yard Esplanade east Near Berkeley-street
- Yard Esplanade east Foot of Church-street
- Yard Bathurst-st Opposite Front-street

BEST HARD COAL, \$5.75

ELIAS ROGERS & CO

HAVE YOU HAD ONE OF THE STANDARD FUEL COMPANY'S RAILWAY PASSES YET?

If not, call and get one before taking your holidays.

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Oilstones and Slips, Hones, Etc.

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Prices Specially Reduced for the Holiday Season.

Beautifully Assorted Stock. 240

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Can give you a complete outfit of the best in material and workmanship. Guaranteed to run and wear well and properly proportioned.

We make it a constant study to keep in stock such Wagons as your business requires, and if we have not just the one you desire, we can, on short notice, build one to suit from a Ten-Ton Truck to Village Cart.

Our Toronto Branch Factory is located at 7 Ontario-street.

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TORONTO AND MARKHAM.

J. & J. L. O'MALLEY

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GARPETS

IN ALL THE LATEST PATTERNS AND COLORS

From 65c per yard Upwards.

BRUSSELS

\$1 Per Yard, MADE AND LAID.

TORONTO POSTAL GUIDE - DURING THE month of September, 1895, mails close and are due as follows:

MAIL	CLOSE	DEPT.
G.T.R. East	8.15 a.m.	7.15 p.m.
G.T.R. West	7.30 a.m.	7.15 p.m.
G.T.R. N.W.	7.30 a.m.	7.15 p.m.
T. & N.W.	7.30 a.m.	7.15 p.m.
M. & N.W.	7.30 a.m.	7.15 p.m.
C.V.N.	6.40 a.m.	11.05 a.m.

English mails close on Mondays, Tuesdays and Thursdays at 10 p.m. and on Saturday at 7.00 p.m. Supplementary mails to Mondays and Thursdays close on Tuesdays and Fridays at 12 noon. The following are the dates of English mails for September: 1, 2, 3, 4, 5, 6, 7, 8, 9, 11, 12, 14, 15, 16, 18, 19, 20, 21, 22, 23, 25, 26, 28, 29, 31.

N.B.—There are Branch Postoffices in every part of the city. Residents of each district should transfer their Savings Bank and Money Order business at the Local Office nearest to their residence, taking care to notify their correspondents to make orders payable at such Branch Postoffice.

T. C. PATTERSON, P.M.