...ND SINNERS!

...ICTURE.

...tion of its richest ..., and that this ... intruder, who ... the house thus ... under cover of night, was his accom... employed to carry away and dispose of ... booty.

To be continued.

## The Phenomena of Digestion.

...UNDER DISCUSSION IN ... OF STOMACHAL DI... DIGESTION IS RETARDED.

From the London Telegram.

Just now ... in Paris are busy discussing a curious case which has come under the observation of the learned Dr. Verneuil. The doctor had a lad brought to him for treatment at the Hospital de la Pitie, who had swallowed by accident a dose of caustic potash. The terrible escharotic produced so tight a constriction in the gullet that no food would pass down into the stomach. Death from inanition must have been the result had not Dr. Verneuil courageously resolved to perform the dreadful operation known as gastrotomy. On the 26th of July, accordingly, he cut right into the lad's stomach, and inserted into it an elastic tube, through which food could be injected. In this way soup, fine-chopped meat, mashed vegetables and drink were administered. On the 10th of September the young man recovered his health and spirits. He was able to go about and help the servants in the hospital, and seemed to have as much life and energy as he had before the accident. Between the 18th of August and the 14th of September he gained ten pounds in weight, while being fed through the hole in his stomach. Of course this case must have a rare interest for all students of the complex phenomena of digestion, and it cannot but recall a still stranger one, which, nearly forty years ago, Dr. Beaumont, a Canadian, had the good fortune to observe. His patient enabled physiologists, in fact, to formulate nearly all our existing knowledge of the processes of stomachal digestion. He was one Alexis St. Martin by name, and, luckily for science, he had a hole made in his stomach through the sudden discharge of a gun. Dr. Beaumont cured him so far that he recovered his health; but though the wound healed, the opening remained, and through it Dr. Beaumont was enabled to see the workings of a living human stomach in nearly all conceivable circumstances. Another case of the same sort—that of an Esthonian woman—came under the observations of Drs. Schroeder and Grunewaldt, some four-and-twenty years ago, and vivisectors knew how Blondlot and others artificially produced the same condition in dogs, and thereby gained a certain insight into the behavior of food in the ventral alembic of the tissues. It was found, for example, that in the fasting state the walls of the stomach appeared pale and flabby, and lay close together, whereupon some people erroneously concluded that the sensation of hunger was due to the rubbing of the coats of the stomach on each other. It was noted that whenever food was introduced the sides of the cavity reddened with the stimulated circulation, and its muscular activity was aroused. As Dr. Beaumont said, from observations made on Alexis St. Martin, the chewed food was churned in the stomach, and carried round and round the course of its curvatures. In this way it was triturated and exposed to the solvent action of the gastric juice which acted on the albuminous and gelatinous substances swallowed, until gradually a milky fluid, known as chyme, was elaborated. Thus was it found out that we take usually about four hours to digest a dinner, and it was also discovered that different kinds of food vary much in their digestibility—notably, for example, that fats and oil take a long time to digest when introduced into the stomach alone, but are much more speedily got rid of by that organ if eaten with salad or vegetable matters.

Of all the curious facts observed by students of the phenomena of digestion, however, none was stranger than the extent to which emotions were seen to affect the operations of the stomach. Mental exertions pure and simple did not seem to retard digestion so much as had been conjectured. Yet when associated with deep emotions, or with that fretfulness of mind we call "worry," it appeared to have a baneful influence. As for the fiercer passions, a outbreak of them would sometimes suffice to prevent the stomach even when most vigorous from discharging its functions. Another mysterious phenomenon noticed in connection with digestion was the sympathetic influence exercised by the stomach over the secretion of the mouth. This secretion, as is well known, has an important chemical action on certain constituents of food, changing by a sort of fermenting process starchy matters, for instance, into sugar. In Dr. Verneuil's case, whenever food was injected into the stomach of his patient "a flow of saliva in his mouth is produced, in the ejection of which a motion curiously resembling chewing is remarked. In short, the different parts of the digestive apparatus are so linked together by nervous connections that they 'sympathise' with each other, and if one be stimulated the rest are also excited. But, as might be expected, there is no connection apparent between the nervous system of the stomach and the nerves of taste, for it is related of Dr. Verneuil's patient that when food is put into his stomach, although his mouth fills with saliva, he feels no sense of flavor in the substance with which he is fed. He is only aware if they be hot or cold, and indeed no anchorite could be in a state of more philosophic indifference to the choicest pleasures of the table. The question forces itself on us, will it be a beneficial thing to rescue him from this condition? There be hard times, and savory food is getting dearer and dearer every day. Would not a man who was thus physically insensible to gastronomic luxuries, who cared not a jot as to what he eat or drank, have an advantage in the battle for life which ought not to be lightly estimated? So long as good digestion waited on appetite, he would be free from the carking care that darkens the soul of the Sybarite as he ponders in his mind that most momentous of all questions, What shall I have for dinner to-day? or sits down to his banquet in fear and trembling lest the cook's kitchen science may for once have failed him in its preparation.

## Canadian News in a Nutshell.

—This year's receipts at the Guelph Central Exhibition amounted to $5,057.

—The total losses by fire in Guelph during the past six months have been only $450.

—Hon. Wm. Macdougall lectures on the 29th at St. John, N. B., on "Notes of a Tour in Europe."

—The Inspector of Hides and Leather for Essex is taking action against the parties who export hides without first having them stamped by him.

—Berry Brothers' patent gas machine has been placed in the principal buildings of Amherstburg, and that town will no longer hide its light under a bushel.

—The St. Thomas School Board has announced its intention of giving a prize of $4 in books to each pupil of the High School who passes the intermediate examination.

—Mr. W. Andrews, of Morris, near Bluevale, made two cakes of maple sugar on the 16th inst., and has still on hand some sugar that was made on the same farm nineteen years ago.

—The death is announced, on board a train at Topeka, Kansas, of James Street, a 17-year-old son of Mr. John Street, Egmondville, who went to Colorado for his health a few days ago. He was on his way home despairing of cure.

—The five men who assaulted the Inland Revenue Officers who were seizing an illicit still in Wilmot, have been lodged in gaol, and further arrests are expected. The names of those committed for trial are:—Joseph Stoever, sr., William Stoever, Louis Stoever, Pringle and Beemer.

—Huron Presbytery will hold a meeting at Clinton, on Tuesday, Dec. 12, for the purpose of appointing Rev. Mr. McQuarrie's induction at Wingham, and, if possible, of disposing of said induction, as also of disposing of a call to Rev. A. McLean, Blyth, from Sherbrooke, Nova Scotia.

—Mount Forest wants to become a town, for which purpose she has given notice of application for a special act at the next session of the Legislature. Next Harriston will have to come to the fore, with Palmerston, Listowel, Orangeville, and Mount Forest. It will never do for Harriston to hold back."

—A resident of the township of Hay, a farmer named Henry Agnew, was on Thursday morning of last week found lying dead in a field near the village of Grand Bend, in the township of Stephen. A coroner's inquest was held on the body and the jury returned a verdict of "Died from cold and exposure."

—While the men engaged at the timber shanty of G. W. Taylor, about one mile from Gravenhurst, were skidding saw logs the other day, a young man named Geo. Clunes, one of the men employed in rolling logs on the dump, was jammed between some of the logs and only survived about half an hour. He was a native of Balmoral, Ont.

## Some Hands at Cards.

The author of an entertaining sketch entitled "Strange Hands at Cards," in All the Year Round, tells of a remarkable hand at whist, which consisted of all thirteen of the trumps; and he affirms, also, that in cutting for partners, at the beginning of a game of whist, recently, the four aces were turned up in succession.

"One recorded example of strange hands at cards was testified in a very complete way, to remove all doubt of the good faith of the narrator. Thirteen years ago, in the military cantonment at Jubbulpore, in the East Indies, five officers of her Majesty's Ninety-first Foot were assembled, four playing at whist and one looking on. A brief narrative was written in the names of, and signed by, all five officers—comprising the lieutenant colonel, two captains, and two ensigns of the regiment, and transmitted to the editor of a London weekly newspaper. The cards used on this occasion had been played with before, and were shuffled and cut in the usual way. When all the fifty-two cards had been dealt out, and the hands were looked at, the combinations were such as might well astonish the players. The dealer was found to have all the thirteen trumps (spades; his partner had eleven clubs; his antagonist on the left hand had twelve hearts, and he on the right hand twelve diamonds! In so far as the dealer's hand containing all the thirteen trumps, we have already noticed an instance of this kind, but the extraordinary thing is that each of the other three hands was made up so very nearly of one suit only. There was a fair probability, for example, that the dealer's partner (all the spades being held by the dealer himself) would have nearly equal numbers of clubs, hearts and diamonds, four or five of each; but that he should have so many as eleven of one suit was certainly not to be expected. And so of the other two hands; there was a combination of improbabilities so extraordinary as to make the odds enormous against such a phenomenon occurring in actual play.

"Mr. Babbage, or some other expert mathematician, once set himself the nice little sum of calculating the number of different ways in which the fifty-two cards of a pack can be distributed among four players, thirteen to each, taking every possible combination and permutation. It would be no use to present the answer here in a long row of figures, for no one can realize to himself what such a numerical array really conveys; nor would it be much better to play with the words billions and trillions, seeing that these are mere words and nothing more to most of us; but the following illustration is more likely to be appreciated by the unlearned many. 'If the entire population of the earth, taken at one thousand millions of persons, were to deal the cards incessantly, day and night, for one hundred millions of years, at the rate of a deal by each person a minute, they would not have exhausted the one hundred thousandth part of the number of essentially different ways in which the cards can be so distributed.' We know what Dominie Sampson's exclamation would have been if he had read or heard this.

"A multitude of questions has been propounded from time to time as to the probability, or rather improbability, of certain cards being held in certain hands; and such questions can be answered by those who have patience to go into the calculations. Here is one:—'If I have six trumps and one of my antagonists the turn-up, what are the odds against my partner holding all the other six?' Here it has been found that the odds would be sixteen hundred and eight to one. But this is quite a humble number compared with that which is involved in the Dundee example; for calculation has shown that the odds are a hundred and sixty thousand millions to one against any whist player having all the thirteen trumps in his hand at one time. Improbable as it is, nevertheless we have evidence of its actual occurrence twice within ten years, at Jubbulpore and at Dundee. This shows what a fundamental difference there is between improbability and impossibility.

"The number of strange and exceptional hands at cards which have actually been held is very large; but comparatively few of them are publicly known, either because the players do not deem it worth while to put them in print, or because they lie buried in publications having a relatively small circulation. One is known as the 'Yarborough hand.' The (or an) Earl of Yarborough once held a hand containing no card above a nine, and had reason to remember it on account of some heavy betting that was going on. Ever after that he held himself ready to bet one thousand guineas to one guinea against such a hand being held again. A practised arithmetician calculated that the real odds are somewhat larger than the earl supposed; and yet the hand has been held sufficiently often to obtain for it a distinctive name."

Mr. Richard A. Proctor, whose numerous works on astronomy are so well known, has gone at some length into the subject of strange games at cards; his mathematical attainments enable him to do readily that which would be formidable to less practised hands.

"There is a spider's web comparison, by Mr. Proctor, which we will notice, to show how ingeniously he tries to assist plain-going folks to understand these amazing numbers. Treating of the number of possible ways in which the 52 cards of a pack may be dealt out to the four players, he bids us imagine that a filament of a spider's web is only one millionth of an inch in thickness; that such filaments are arranged side by side in close contact; and that these millions in every inch are continued from the earth to the principal star in the constellation Centaur; even then the total number of filaments will only be a mere fraction of the number of deal-variations he was treating of. In another case, relating to the possible number of arrangements of all the cards in a pack (not the same thing as the distribution in dealing), he imagined a phalanx of little cubes, each only one-millionth of an inch in the length of each side; he calculated how many of such cubes would be required to equal the number he was concerned with; and he found that if the tiny cubes were packed together in a giant cube, this giant cube would equal, in the length of each of its sides, seven thousand times the distance from the earth to the sun."

## Remarkable and Perilous Marksmanship.

Two brothers named Watson have been giving remarkable exhibitions of foolhardiness and skill in Tony Pastor's Theatre, New York. They are billed as "noted Western scouts and sharp shooters," and have the look of frontiersmen. They begin by displaying rifles, and shooting bullets through blocks of wood, to prove that the ammunition and missiles are genuine. On both sides of the stage, close to the front, thick wooden pads are placed for the bullets to lodge in. At the beginning of the display of marksmanship one man holds an apple in his fingers, and the other shoots a ball through it from across the stage; and next the man who had risked his fingers becomes the shooter in a repetition of the feat. Each in turn hits the bull's eye of a target ten times without a miss, the bull's eye being just above the head of the brother who holds the apple. A potato is placed on one's head and shot off by the other, the potato being split to pieces and the bullet entering the pad in front of which the holder stands. This feat is repeated many times, the brothers changing attitudes and holding the rifle in positions seemingly awkward enough to increase the peril. The brothers wheel quickly and shoot potatoes simultaneously off each other's heads.

The other day one of the potatoes was barely grazed, but a second trial was successful. A candle was snuffed with a bullet; and, as a culmination, one held a lighted cigar in his mouth and the other shot off the ashes, the distance being the entire width of the stage.

The brothers, who profess to have acquired their skill by long practice on the plains, use breech-loading rifles, and handle them with wonderful quickness. The younger seems to be the best marksman—at least he fires quickest after getting his weapon up to aim, and rarely fails to hit. The older sometimes misses.

## Sharpening Tools by a Bath.

From the Tischler-Zeitung.

A razor recovers its edge if left for half an hour in water which contains sulphuric or muriatic acid in the proportion of one part by weight of acid to nineteen of water. The razor is carefully wiped on being taken out of the acidulated bath, and passed over an oil-stone. The acid bath is said not to hurt the blade; on the contrary, the quality of the metal in some cases improves by the immersion. So with scythes and sickles. The time lost in the harvest field in the early morning in sharpening scythes would be spared by laying the blades for half an hour in a bath prepared as above described. As soon as taken out of the bath, they should be wiped and a soft sandstone hone passed along would leave a good and uniform edge behind it.


JUST ADDED,
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SEVERAL NEW LINES OF
OVERCOATS

Beautifully Finished, Splendid Value,
Beautifull Finished, Splendid Value,
Beautifully Finished. Splendid Value.

ALL SIZES,
ALL SIZES.

AT THE FOLLOWING PRICES:
$6.50, $7.50, $8.50, $9.50
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W. H. POTE & CO.
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Headquarters for Clothing, Edge Block, Richmond Street, only 2 doors south of Dundas.
London, Oct. 21, 1876. d-eod-tf

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Specific Medicine.

Before. After.
The Great English Remedy is especially recommended as an unfailing cure for Weakness, Spermatorrhea, Impotency, and all diseases that follow as a sequence of Self Abuse, as Loss of Memory Universal Lassitude, Pain in the Back, Dimness of Vision, Premature Old Age, and many other diseases that lead to Insanity or Consumption and a Premature Grave, all of which, as a rule, are first caused by deviating from the path of nature and over indulgence.
The Specific Medicine is the result of a life study and many years of experience in treating these special diseases. Pamphlet free by mail.
The Specific Medicine is sold by all Druggists at $1 per package, or six packages for $5, or will be sent by mail on receipt of the money, by addressing WILLIAM GRAY & CO., Windsor, Ont.
Sold in London by B. A. MITCHELL, C. McCALLUM, and by all other druggists.
sept22,d-tu,th,sat,w-ly

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Music Warerooms
PIANOS, PIANOS.
$190 will buy a 7 Octave Piano—Usual price, $375.
$250 will buy a 7⅓-Octave Piano—Usual price, $500.
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The above prices are for cash, or two or three years' credit if required.
The above Pianos are all from good, reliable and wealthy manufacturers, and
EACH PIANO WARRANTED.
We keep for sale the Weber, New York, acknowledged to be the Best Piano in the World.
ORGANS.
We sell our own manufacture Organs 25 per cent. lower than dealers or agents can sell them, therefore purchase of us direct and make money.
Pianos to rent. All kinds of Musical Instruments repaired.
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WE HAVE THE LARGEST, most complete and varied stock of
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Which, for quality and prices,
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Samples Free on Application.
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WOOL MAT FACT'RY
W. J. ROBINSON,
Manufacturer of
Colored Wool Mats,
HEARTHRUGS, ETC.
Every description of Mats and Rugs, in every variety of color, made to order.
Pure White Mats and Rugs a specialty.
Old faded Mats and Rugs re-dyed, and soiled white goods cleaned to look like new.
Also, manufacturer of Long Wool Dusters, the only perfect duster in the world. Liberal discounts to the trade.
Store 396½ Ridout Street, opposite Court House.
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Domestic Hardware Store.
S. SHOVELLER,
The place for cheap goods for Farmers and Housekeepers.
Iron Bedsteads of Various Patterns. Clean and Strong. Table Cutlery, Cross-Cut Saws, Cow-Ties, &c.
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CYLINDER ENGINE,
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THEY ARE LIKEWISE SHOWING THE MOST
Complete Assortment of Dress Trimmings
TO BE FOUND ANYWHERE IN
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ALL KINDS OF
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Ladies may rest assured that the Best and Cheapest Place to purchase Dress Goods is at
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LEAVE YOUR ORDERS.
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Call Early and Secure "First Choice."
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An Aromatic Tonic, Anti-Dyspeptic and Invigorating Cordial.
Kept by all Wholesale Dealers.
Its extraordinary medicinal properties in all ordinary cases of obstruction in the Urinary Organs, in Dyspepsia, Sluggish Circulation of the Blood, and Exhausted Vital Energy, is acknowledged by the whole Medical Faculty to be the finest tonic in use. oct10,d-eod-hn
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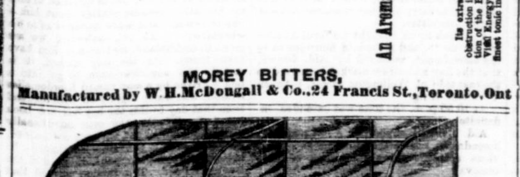
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To same before purchasing elsewhere. Holding, as we do, the Largest and Best Assortment of these Goods in Canada, the Trade can obtain
AN ENDLESS VARIETY
And for value we will not be surpassed.
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41 YONGE ST., TORONTO,
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Children's Pelisses,
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INSPECT OUR STOCK.
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30,000 Linen Bags,
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The Thalberg Piano.
THE GENERAL FAVOR WITH which the Thalberg Piano has been received shows that there was a want to supply, and that a good, sound instrument, at a low cash price, was needed by a large class of the community.
The special points of advantage of this instrument are:—
SEASONED MATERIAL,
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UNIFORM QUALITY,
FULL GUARANTEE,
RICHNESS OF TONE, and
MODERATE PRICE.
For the present season of 1876-77, the Thalberg Piano is still offered at the cash price of
$290,
but the size of one instrument is increased to SEVEN AND ONE-THIRD OCTAVES, and the Agraffe Treble has been added, making, without exception, for the price, the most attractive and
Best Value Instrument in the World!
In any part of the Dominion where Special Agents are not appointed, General Merchants are authorised to take orders for the Thalberg Pianos; but, to prevent any disappointments, parties wanting a Piano may remit by bank draft, or by express, to the Wholesale Agent at Toronto or Montreal, who will forward by regular conveyance to any address. Parties ordering early shall be first served.
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Nos. 48 and 50 Yonge street, Toronto,
Nos. 196 and 198 McGill street, Montreal,
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N. B.—Repairs promptly attended to. oct23,d-hn

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Manufacturer of and Wholesale Dealer in
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PAINT TINS, OIL CANS,
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Orders from the country promptly executed.
THOS. McDONALD.
September 11, 1876 d-eod,ly

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PREPARED CANVAS, ALL WIDTHS,
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CRESSWICK'S, GOODALL'S, CATTERMOLLE'S, WHATMAN'S & HARDING'S PAPERS, ETC., ETC.
CATALOGUES on APPLICATION
Toronto, Nov. 1, 1876. d-eod,ly

TRY ONE
And you won't do without Them

GLOBE
Best in the World
PATENTED 1875.
Double Rubbing Surface
Saves Time, Labour and Soap.
MANUFACTURED BY THE C. C. ... MANUFACTURING CO'Y,
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All Grocers Them—Ask for the Globe.
Toronto, Oct. 27, 1876. [7] d-eod,tf

DOMINION
WIRE WORKS.
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Manufacturers of
PLAIN and ORNAMENTAL
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Special attention given to Cemetery Fencing, Wire Fencing and Window Guards, Counter and Desk Railings, Coal and Sand Screens, Riddles, Flower Stands and Baskets, Arches, Trainers, Hat, Cap and Bonnet Stands, Wire Figures, Fenders, Rat Traps, &c. Particular attention paid to
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Misses' in Four " B, B½, C, C½.
Children's in Four " B, B½, C, C½.
Gents' in Six " B, B½, C, C½, D, D½.
Boys' in Four " B, B½, C, C½.
Youths' in Three " B, B½, C.
In Ladies' work, AA is very narrow; A, narrow A½, slight medium; B, medium; B½, full medium; C, wide; C½, very wide. In Gents', B is narrow; B½, slight medium; C, medium; C½, full medium; D, wide; D½, very wide. In Misses', Boys' and Children's, B is slight medium; B½, medium; C, full medium; C½, wide. In Youths', B is medium; B½, full medium; C, wide.
Each Boot is stamped on the lining and sole with our name, the width and the size. In ordering Boots from us, please mention the sizes or half sizes and widths wanted. As usual, we manufacture full lines of Ladies', Misses', Children's, Gents', Boys' and Youths' best pegged work, and are now able to supply closed uppers of every style of Boots and Shoes we manufacture, at prices proportionate to the cost of the goods complete. All orders you may be pleased to favor us with, will have our careful and prompt attention.—KING & BROWN, Toronto.
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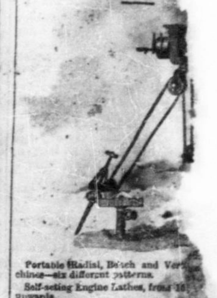
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