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ARCHITECT, OFFICE—Montreal Street.

**ADAM M'ARTHUR,**  
ACCOUNTANT, AUDITOR, &c., Office Clarence Street, near King St.

**DR. PRICE,**  
PHYSICIAN, SURGEON, &c., Office—No. 43, VAUGHAN TERRACE, PRINCESS ST.

**POWER AND SON,**  
ARCHITECTS and Building Surveyors, Office Wellington Street, Kingston.

**R. W. GARRETT, M.D.,**  
PHYSICIAN, SURGEON, &c. Removed to 52 Johnson St., opposite St. George's Cathedral.

**L. CLEMENS,**  
DENTIST, directly opposite the Post Office Wellington Street. Established in Kingston, 1850.

**DR. W. G. ANGLIN, M.R.C.S., ENG.,**  
OFFICE—52 Earl Street, near King Telephone communication.

**JOHN STRANGE, LL.B.,**  
SOLICITOR, &c., Office—Clarence Street opposite the Post Office. MONEY TO LOAN at lowest current rates.

**WALKEM & WALKEM,**  
ATTORNEYS, Solicitors, &c., Kingston, opposite the Post Office.

**RICHARD WALKEM, | JOSEPH S. WALKEM,**

**H. M. MOWAT,**  
BARRISTER, SOLICITOR, CONVEYANCER, &c., Ford's Block, Brock Street, Kingston. Money to Loan.

**A. F. McVETY, M.D., C.M., M.R.C.S.E**  
OFFICE—20 Wellington Street, two doors north of Princess St., lately occupied by Dr. Garrett. Telephone No. 218.

**DR. ALICE MCGILLIVRAY,**  
Diseases of Women and Children a specialty. Office—230 PRINCESS STREET, at Dr. Sparks' old stand. Telephone No. 196.

**MARION LIVINGSTONE, M.D., C.M.,**  
OFFICE AND RESIDENCE—211 Bagot Street between Clarence and Johnson Sts. Diseases of Women and Children a specialty.

**W.M. NEWLANDS, JR.,**  
ARCHITECT, corner of Brock and King Street, over Wade's Drug Store. Entrance on King Street, next to the Whig Office.

**SMYTHE AND SMITH,**  
SOLICITORS, Etc., 122 Ontario Street.

**E. H. SMYTHE, LL.D., CHAS. FROSTENAC SMITH**

**ROBERT SHAW,**  
BARRISTER, SOLICITOR, CONVEYANCER, &c., Office—Corner King and Brock Streets over Wade's Drug Store.

**DR. ELIZABETH SMITH-SHORTT,**  
C.M., M.C.P. & S.G.,  
Late of Hamilton, 53 West Street. Diseases of Women and Children.

**HOMOEOPATHY.**  
**C. L. CURTIS, M.D.,** successor to Dr. Jarvis, Physician, Surgeon, &c., Office and Residence nearly opposite the Post Office, Wellington Street. Calls in the city or country promptly attended to.

**J. H. CLARK, M.D., D.D.S., L.D.S.,**  
DENTIST, Graduate of New York College of Dentistry. Office—Wellington Street, between Princess and Brock Streets. Particular attention paid to the preservation of the natural teeth.

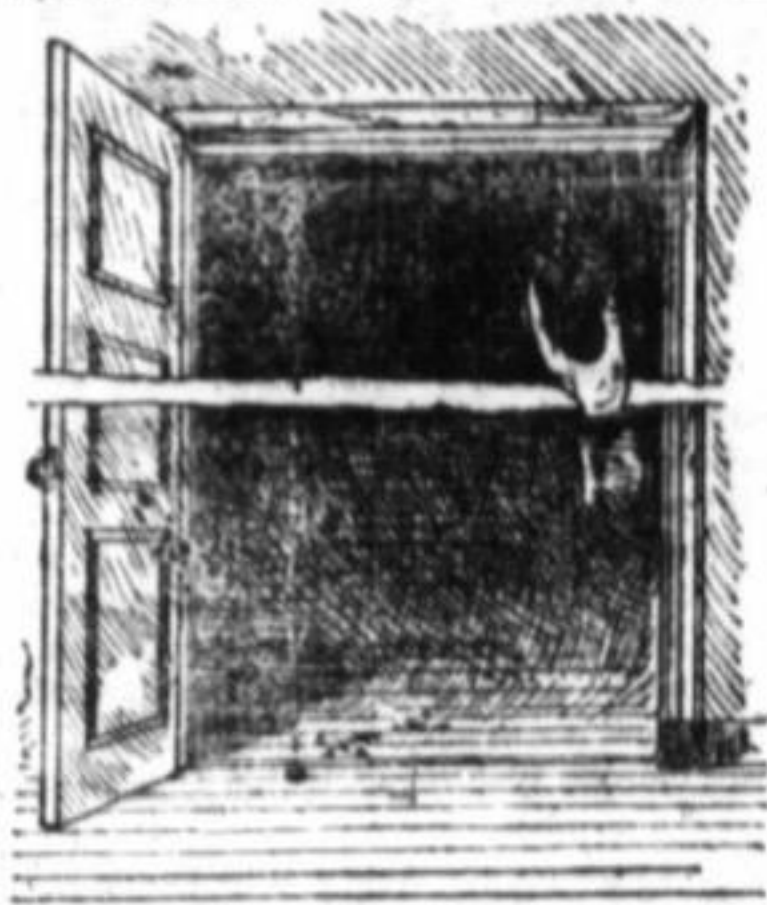
**R. E. SPARKS, D.D.S., L.D.S.,**  
DENTIST, Office—Princess St., between Monroa and Sydenham Streets. Residence No. 21 Charles Street. Office hours, 8 a.m. to 6 p.m., and on Saturday evenings 7 to 10 o'clock. Telephone 196.

**SCIENCE AND PROGRESS.**

**A SELF WORKING SAFETY GATE FOR ELEVATED RAILROADS.**

The Destructive Influence of Snow Upon Marble Explained—An Interesting Experiment Showing the Action of Gravity on Light and Heavy Bodies.

Take a sharp pointed knife with a heavy handle and press it lightly into the wood-work of the frame of a door. By striking the frame a sharp blow with the fist, the jar will release the knife, which will fall perpendicularly to the floor; and if a walnut shell or other soft body is placed directly beneath it, it will be crushed by the force of the fall.



AN ENTERTAINING EXPERIMENT.

Previous to placing the nutshell in position the handle of the knife should be inserted in a glass of water (see cut), when the falling drop, on reaching the floor, will indicate the exact spot where the nutshell should be placed. This experiment, explains Nature, also illustrates the principle of inertia, as the blow upon the framework of the door simply dislodges the knife before any motion is transmitted to it, as is proved by the fact that the knife falls perpendicularly in the same line as the drop of water falling from the handle. It also shows that light and heavy bodies both move in the same direction when acted upon by gravity.

**Effects of Snow on Marble.**

The results of the examination of snow taken from different places in Munich and its neighborhood, by Mr. Sendtner, would seem to indicate not only that snow has a considerable faculty for absorbing sulphurous acid from the atmosphere, but that the absorption goes on continuously for some time. Mr. Sendtner ascertained that, on one day when snow fell, sulphurous and sulphuric acids were present in it in fairly equal portions, but on the second day almost all the sulphurous acid had been oxidized to sulphuric acid. In the vicinity of chimneys and gas works the absorption would, of course, be greater. This great absorptive power toward sulphurous and sulphuric acids is considered of practical interest, as explaining the destructive influence of snow upon marble.

**Capacity of Pumps.**

To find (approximately) the amount of water a pump will move per minute, assuming a hundred feet piston speed as the standard, says Popular Science News, square the diameter of the water cylinders, and divide by four; and inversely, to find the size of a pump to perform a required duty in gallons, divide the number of gallons by four, and extract the square root of the quotient. The result is the diameter of water cylinder required.

**Black on Green.**

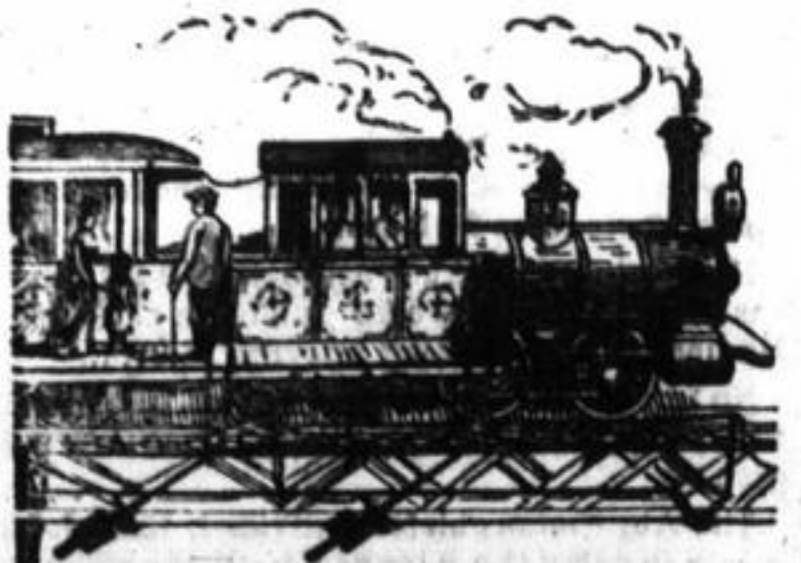
Several of the French railway companies, and other public bodies, have resolved on having their printing done on green instead of white paper. The reason for the alteration is that they believe the combination of white paper with black characters endangers the eyesight of their workpeople. Black on green has always been recognized as a good combination, and many railway tickets are so printed.

**To Make Hektograph Ink.**

Following is a simple formula for making hektograph ink, purple blue and black: Take one part aniline of desired color, dissolve in about seven parts water, and add one part glycerine.

**An Automatic Railroad Gate.**

A gate which is designed to be self opening and self closing with the movement of the cars on and off the track at stations, and which is more especially designed for use on elevated railroads, is shown in the accompanying cut. Scientific American explains it as follows: On the platform supports are secured a number of guides, which extend up to the outer edge of the platform, a vertically sliding gate being held between each two succeeding guides. These gates are connected at each end by a link with a weighted lever fulcrumed on a post or on a bracket secured either to the track posts or to the platform supports. From the fulcrum of each weighted lever extends an arm pivotally connected with a rod arranged horizontally along the platform, the outer end of the rod being pivotally connected with one arm of a bell crank lever pivoted on one of the track posts, and connected at its other arm by a link with the free end of a rail lever held alongside of one of the rails of the track.



AN AUTOMATIC RAILROAD GATE.

This rail lever is arranged in position covering the usual locomotive stopping places, and is so formed as to be acted upon only by the larger wheels of the locomotive. Each gate link may be connected to a separate weighted lever, or the links of two adjoining gate ends may both be connected to one lever. The weights of the levers are so arranged that the levers hold the gates in a closed position and also hold the rail lever slightly extending above the rails of the track. When a train moves up to the station, the wheels of the front locomotive wheels press the rail lever downward, swinging the bell crank lever, and drawing the horizontal rod forward, so that the weighted levers are swung to draw down the gates until the top edge of each is flush with the top of the platform, thus permitting passengers to pass from the platform into the cars, or vice versa, in the usual manner. As soon as the train starts to leave the station, and the wheels of the locomotive wheels move off the rail lever, the gates move upward vertically again by the action of the weights of the levers, and the station platform is closed on its track side.

**HOW HE WON.**

William Beach, Ned Hanlan's Conqueror. Tells How He Did It.

The recent exploit of Mr. William Beach, leaves no doubt that he is the handiest man in the world with the sculls. The ease with which he outwitted his opponent, the supposed invincible Ned Hanlan, shows that in form, stroke, and muscular development, adapted to sculling, he has no equal.

Although an Australian by virtue of residence, Beach was born in Surrey, England, in 1851, and removed with his parents to New South Wales in 1854. He was brought up to his father's trade, and, while toiling like a young Vulcan in the smithy, unconsciously developed that magnificent physique which has since brought him world-wide distinction. When about twenty-three years of age Beach commenced rowing on the Illawarra lakes against local competitors, and from the outset kept winning until gradually handicapped out of all races. Following are his chief aquatic performances while in Australia:

- December, 1880—Won on Deeble's handicap, Woolloomooloo Bay.
- January, 1881—Second Pyrmont regatta, won by Pearce.
- January, 1881—Second National regatta, won by D. McDonald.
- February, 1881—Beat N. McDonald, Parramatta river.
- March, 1881—Beat George Solomons.
- May, 1881—Beat Charles Reynolds.
- October, 1882—Second Punch trophy, won by E. C. Laycock.
- December, 1882—Beat T. Clifford, Parramatta river.
- January, 1883—National regatta, swamped, won by Messenger.
- March, 1883—Nowhere, Grafton regatta, won by D. McDonald.
- March, 1883—Won Woolloomooloo Bay regatta prize.
- December 7th Won James Hunt's trophy, Parramatta river.
- April 2nd, 1883—Beaten by E. Trickett, championship (first time.)
- April 12th, 1883—Beat E. Trickett, championship.
- April 17th, 1883—Beat E. Trickett, championship.
- April 12th, 1884—Beat E. Trickett, championship.
- August 16th, 1884—Beat F. Hanlan, championship world.
- March 17th, 1885—Beat T. Clifford, championship world.
- March 27th, 1885—Beat F. Hanlan, championship world.
- December 19th, 1885—Beat N. Matterson.
- November 26th, 1887—Beat F. Hanlan, championship world.

Mr. Beach's system of training includes a run of two or three miles before breakfast, a walk of six or seven miles afterwards, and a pull over the course. After dinner comes another two-mile walk and a second pull over the course, during which he rows him self right out, eases off, and then pulls again. A long walk concludes the day.

A man under such physical strain, even though he be a giant, must often feel the failure of his strength to his will, and, powerful though he be it is not surprising that Mr. Beach candidly states that during his training, previous to meeting Edward Hanlan the second time for the world's championship, his trainer bought for him Warner's Safe Cure and he says: "I was agreeably astonished at the great benefit which followed its use." While in training he finds this the best possible aid to a command of all his natural powers, because it does not first goal and afterwards weaken the system, but acts in perfect harmony with nature's laws.

Mr. Beach's experience is confirmed by the experience of many thousands of athletes all over the world. Under the great physical strain they break down and die prematurely, because they have not been able to keep disease away from their kidneys and liver, whence most diseases originate. Mr. Beach recognizes this necessity, and has sagacity enough to use the only scientific specific for that purpose. He has not only the prestige of victory, but the prestige of a true scientific method of training and keeping up his wonderful physical condition. If he did not voluntarily give up the championship it would no doubt be a long time before it was wrested from him.

**DOESN'T LIKE FEMALE MAYORS.**

All the Boys Voted for Mrs. Salter—She's Spoiled Their Fun.

New York Sun. KANSAS CITY, Jan. 17.—"Female Mayors are no good," said ex-city marshal, of Argonia, Kan. "Why, Mrs. Salter has just killed Argonia. I used to have a hotel there and was the city marshal, but I couldn't stand it, so I just scooted, and I expect I'm to blame for her election, too."

"You know she wasn't nominated in any of the conventions. About 9 o'clock on election day all us boys were feeling gay and agreed to meet at a hall and nominate a candidate to knock out Wilson. Jack Ducker, he's the toughest man in the place and the undertaker, got up in the meeting and nominated Mrs. Susanna Medora Salter for mayor, and the nomination was made unanimous. We rushed into the streets and commenced to work for our candidate. At noon her husband came to us and begged us to quit the racket, sayin' it was an insult to his wife. We wouldn't do it, and then the voters commenced to come our way in clusters. We got full of whisky and enthusiasm, and at 4 o'clock every one was votin' for our candidate. Well, you know as how she was elected. We had a jollification, and when she took her seat like a man all our fun was busted."

"I sent up to Kansas City for some crab apple cider, just to please the boys. She heard of it and asked me to stop it. You can't fight a woman and she the mayor. Then I started a little poker room, more for sociability than anything else. Chips was only ten cents. She heard of it and came to me and I had to stop. Then the drug-gist, before she was elected, used to keep blue grass biscuits, lemon rye, extract of malt, and a few other things like that. He don't do it now. The mayor heard of it. Then the two billiard rooms were running. They're closed up now. The mayor don't think it is fashionable to push the ivories. That's the way it is with everything. I just couldn't stand the town and so I came up here."

"She's the only woman mayor on earth, is she not?"

"That's just what she is. You ought to see the letters she gets, foreign letters and the like, askin' for her autograph, and askin' her if it's true that she is the mayor, and all questions like that. When I was marshal I used to act under her, and many's the letter she has shown me from abroad."

When Baby was sick, we gave her Castoria.  
When she was a Child, she cried for Castoria.  
When she became Miss, she clung to Castoria.  
When she had Children, she gave them Castoria.

Near Ottawa, Iowa, two fireman and an engineer were killed in a railway collision.

**WALSH & STEACY'S PRICES**

**WINTER - DRY - GOODS**

Are the Lowest in the City.

The Largest and Best Assorted Stock to choose from. All Winter Goods at Cost and Under. Don't buy till you get our prices.

**COTTON SALE!**

To-day we begin our Annual Spring Sale of White and Grey Cottons. Special Prices.

**WALSH & STEACY.**

**OUR GREAT REMNANT SALE**

**BOOTS & SHOES**

NOW IN FULL OPERATION.

**SOME SPLENDID BARGAINS OFFERED TO-DAY.**

**KID BOOTS.**

A Lot of Ladies' Button and Lace Kid Boots reduced from \$2.50 and \$2.00 to One Dollar and a Half. Another Lot reduced to \$1.10.

**BOYS' BOOTS.**

A Lot of Boys' Lace Boots \$1.50, the former price, now marked \$1.00.

**MEN'S BOOTS.**

A Lot of Men's Felt, Foxed, Buckle and Lace Boots reduced to \$1.50. A Fine Leather Lace Boots reduced to \$1.00.

**MOCCASINS.**

A Lot of Small Boys' Tie Moccasins only 50c. A Lot of Larger Boys' Lace Moccasins reduced to \$1.00. A Lot of Men's Extra Quality Lace Moccasins reduced from \$2.75 to \$1.50. This is an Unusual Opportunity. Call early for Best Choice.

**HAINES & LOCKETT.**

**TOO LATE! TOO LATE!!**

We have just received a Consignment of

**--LINEN HEM - STITCHED HANDKERCHIEFS--**

For Ladies and Gentlemen. Initials Embroidered in Hand Work.

These Handkerchiefs were bought for the Xmas trade, but arrived too late. To close them out before Stock-Taking, we will offer them Very Much Below the Regular Price.

Ladies' Handkerchiefs worth 25c, for 15c.

Ladies' Handkerchiefs worth 30c, for 20c.

Gents' Handkerchiefs worth 50c, for 30c.

Gents' Handkerchiefs worth 75c, for 50c.

Call and secure your initial before they are all picked over.

**MINNES & BURNS'**

RELIABLE AND CLOSE-PRICED DRY GOODS HOUSE.

Cor. Princess and Bagot Sts., Kingston.

**BOWES & BISONETTE**

Are offering all classes of Winter Dry Goods at a WONDERFUL SACRIFICE.

**IMMENSE REDUCTIONS!**

Everything Marked Down to and Below Cost Price. We are determined not to carry over any Woolen Goods to next season. We want your money. Everything must go. Regardless of Cost or Value.

Follow the Crowds to the CHEAPSIDE for Bargains.

**WE WANT MONEY AND ROOM,**

And in order to get them have decided to offer Goods in every department at Still Greater Reductions for the Next Two Weeks. Dress Goods, Cloakings, Ulsterings, Flannels, Table Linens, Napkins, Towels and Towellings, Etc., all Reduced.

This is a good opportunity for CASH Buyers to get NEW Goods at Lowest Possible Figures.

A. J. McMAHON,

110 PRINCESS STREET.

**WOOD AND COAL**

**REMOVED.**

THE SUBSCRIBER begs respectfully to announce to his numerous friends and customers that he has removed his old and established Wood Yard from the Ferry wharf to the old K. & P. Railway Depot at the foot of Ontario Street, and

Directly opposite the *Tele du Pont* Barrack Gate.

Where he will be glad to meet all his old customers and as many new ones as will honor him with their patronage. He will constantly keep on hand

THE BEST DRY HARD WOOD, 1 ft. long SOFT WOOD, SLABS, KINDLING AND SAWED WOOD.

—SOLD CHEAP AT—

Jas. Campbell's Wood Yard.

WOOD! WOOD!! WOOD!!!

**CAPT. JOSEPH PARSONS**

Has bought E. Williams' Wood Business on the Atlantic Dock at the foot of Princess Street. It is the most central yard in the city, and he is now prepared to supply the public with all kinds of Hard Wood any way required, and all kinds of Soft Wood. He would kindly solicit a call.

Remember the Yard, at the FOOT OF PRINCESS STREET.

**BRECK & BOUTH**

Wharfingers, Vessel Agents and Wholesale and Retail Coal and Wood Dealers. Coals of the very best description, under cover, well screened and promptly delivered. Bunco wood and Hard and Soft Cordwood of first quality on hand. Inspection solicited and satisfactory guaranteed.

YARD—Corner Ontario and West Streets.

Office—Clarence and Ontario Streets—Foot of Clarence Street.

ORDERS left at the stores of Mr. James Redden, Princess Street, and Messrs. McKelvey & Birch, Brock Street, will be promptly filled. Telephone Communication.

Agents—Black Diamond Line.

L. W. BRECK. E. A. BOUTH.

**LUMBER, WOOD AND COAL DEPOT.**

GO TO ANGLIN'S For Cheap Lumber, Wood and Coal, where you will find the largest assortment of Dry Lumber in the city; also the largest stock of Dry Wood and Slabs. This is the only place in the city having three Steam Machines for Sawing Cordwood; also having the only Steam Wood Splitting Machine in the city.

Having purchased the Lumber in the Noon & Tyner Yard we would invite an inspection of same, as we are selling at a slight Advance on Cost.

W. B. & S. ANGLIN.

**HARD AND SOFT WOOD.**

If you want the Driest, Cheapest and Best Hard Maple and Beach Cordwood, Oak, Birch, Ash, Elm or Hemlock Cordwood Sawn or Un-sawn.

Or if you want Kindling Wood, (Dry) or Stove Coal, Nut Coal, No. 4 Coal, Soft Coal or Blacksmith's Coal, go to

R. CRAWFORD & CO., - Foot of Queen St.

N.B.—Orders left at the Grocery Store of Jas Crawford, Princess Street, will receive prompt attention. Telephone communication.

**Coal, Wholesale, Retail,**

**BEST IN THE MARKET.**

Yard No. 1—Ontario Street.

" " 2—Clarence Street Wharf.

" " 3—St. Lawrence Wharf.

Secure delivery before broken weather sets in. Chief Office—St. Lawrence Wharf.

Branch Office—Corner King and Clarence St., opposite British American Hotel.

Prompt and satisfactory delivery a specialty. Coal all under cover and well screened.

Telephone Communication.

JAMES SWIFT & CO.

**COAL AND WOOD.**

For Scranton Coal of the Best Quality; Also Hard Wood and Mill Wood, and

Verona Lime,

P. WALSH'S.

OFFICE—Cor. Barrack and Ontario Sts.

KINGSTON LAUNDRY, - Opp. Windsor Hotel.

J. R. RATTENBURY PROPRIETOR.

First-class work done at low prices and on short notice.