THE CITY DIRECTORY.

Hotels and Restaurants.

ISLAND HOUSE—Best cigars and liquors Meals at regular hours. W. DOYLE, Market Square. BURNETT HOUSE, Ontario St., nearest first class hotel to G. T. R. and K. & P. Stations. T.

Wilson, Proprietor. ALBION HOTEL, corner Queen and Montreal Streets, well situated, with yard and stabling.

NELSON SWITZER, Proprietor OTTAWA HOTEL, corner o Ontario and Princess Streets. First-class accommodation; gard and stabling. James Norris, Proprietor. SCOTT'S HOTEL, cor. Queen and Ontario Sts. Satisfaction guaranteed. Fine liquors and ci-gars. Good yard and stabling. A. SIMPSON.

ANGLO-AMERICAN HOTEL, most convenient and popularhotel in city, opposite to G.T.R. station and steamboat landings, Mrs. Shanahan QUEEN'S HOTEL, 125 Brock St. Stabling for 100 horses; yard for 200 vehicles; rooms for 100 guests; meals at all hours; best cigars and liquors; 3 liveries in connection; conveyances to and from trains. A. VANALSTINE, Prop.

Livery Establishments.

F. A. Birsey. 129 Brock Street, the leading hack and livery stable in the city. Telephone

T. C. Wilson, 120 Clarence Street, the largest and longest established livery in the city. Telephone No. 179. Vehicles ready at a mo-

ELDER BROS., New Livery in connection with St. Lawrence Hotel on King Street. First class rigs will always be on hand on the shortest

McCammon Bros., Kingston Horse Exchange, Livery and Boarding Stables, corner of Brock and Bagot Streets. A new and stylish outfit of vehicles and excellent horses. Charges mode-

H. P. Wells Livery, foot of Princess St., is the most thoroughly equipped one in the city, having every style of rig kept in a first-class livery. Special rates to opera and commercial men. Telephone No. 10.

Watches and Jewellery.

F. W. SPANGENBURG, manufacturer and importer of fine jewellery, 347 King Street. J. A. LEHEUP, watch maker, jeweller, 68 Brock St., dealer in watches, clocks and diamonds.

SMITH BROS., 345 King St., headquarters for Watches, ranging in price from \$3 to \$200; Silverware and Jewellery. A. M. Brock, watchmaker, jeweller and engraver, has every facility for manufacturing and repairing jewellery in all its branches. Golden Diamond Watch Sign, 90 Princess St.

Groceries and Liquors.

J. HALLIGAN & Co., 53 Brock Street. Family groceries, imported wines, liquors and cigars, VICTORIA WAREHOUSE, admitted to be the best place in the city to buy groceries, crockery, china, etc. Thos. li Johns.

TIERNEY BROS, have removed to their new premises, Brock Street, Market Square, where they show the largest and finest stock of Imported and Domestic Liquors, Teas, Cigars, &c.

Financial.

CARRUTHERS BROS., Financial Agents, King Street. Money to loan on real estate and other

securities. MONEY TO LOAN in large or small sums at low rates of interest, on City and Farm Property Loans granted on City and County Debentures, Apply to Thomas Briggs, Manager, Frontenac Loan and Investment Society. OFFICE—Oppo-site the Post Office.

Fruit, Confectionery, &c. R. H. Toyk. - Try the Milk Rolls and Bath Buns manufactured at the King Street Bakery.

R. H. TOYE, Market Square. THE BEEHIVE-Fine groceries, fine and domestic fruits. Jos. HISCOCK, Masonic Build-

ings, Market Square. W. C. HORTON, dealer in fresh fish, oysters, fruit, etc., 62 Brock Street.

Cigars and Billiards,

R. NEWLANDS, Princess Street, dealer in cigars, tobaccos, pipes, fishing tackle and pocket

books. Finest assortment in the city. HOLDER BROS., (J. B. and F. W.) dealers in choice cigars and tobaccos. Pool and billiard room- in connection, 239 Bagot St., near Princess

Photographic.

YOU CAN GET BARGAINS in Christmas Cards and Photograph Albums at J. W. POWELL'S. the Photographer.

H. HENDERSON, Photographer. Enlarged Portraits and Views. Satisfaction guaranteed.

Tailoring.

SUITS TRIMMED and made to order, in latest fashions at JOHN SHANAHAN'S, Market Square, FOR LATEST AMERICAN STYLES, guaranteed to fit, go to A. O BRIEN'S, 269 Princess St., above Sydenham.

Areated Waters, Etc.

ACKNOWLEDGED by everybody that the finest line of soft drinks manufactured in the city can be found at HINDS BROS', Market Square. They consist of all areated waters. Prompt attention paid to pic-nic parties.

Crockery, Glassware, Etc. E. JONES, 280 Princess Street, has always an excellent stock of express waggons, crockery, glassware, baskets and fancy goods to choose from. ## Registry office for servants in connec-

Plumbing and Gas Fitting. J. G. Bastow, practical sanitarian. Plumo ing gas and steam fitting, 349 King St. Tele

phone, No. 62. Boots and Shoes.

W. ADAMS, mnfr. Men's work a specialty. Factory work on hand. Brock St., near Market,

THE LARDER.

BUTCHERS, FARMERS & GARDENERS.

Prime small hog casings, by tierce, 500 lbs. 28c. per lb; kegs, 100 lbs, \$30; half kegs, 50 lbs., \$15.00; small quantities, 35c per lb.

English sheep casings, kegs, of 50 large bund
les, \$30; small quantities, 65c per bundle.

Pure Fertalizer, composed of blood, bone and
meat, only \$30 per ton; fine bone meal, \$35 per
ton; coarse bone meal, \$35 per ton, f. o. b. Ha-

F. ROWLIN & CO., -- HAMILTON

PURE MILK AND CREAM

From Ayrshire Cows at the BAZAAR.

We have made arrangements for a daily supply in Glass, and trust it will be a benefit to the public as well as ourselves.

BROS REES . Man. Confectioners.

JUST THE THING FOR PIC-NICS.

Ginger Ale, Lemon Soda, Birch Beer and Cream Soda—the finest in the city. Davies Gold Medal Ale in pints and quarts.

JAMES THOMPSON, 331 and 333 King St June 1.

CITY FLOUR STORE.

CHOICE FAMILY & BAKERS' FLOUR SEED GRAIN, PRESSED HAY, CLO-VER AND TIMOTHY SEED.

C. D. FRANKLIN, MARKET SQUARE. Feb. 4.



SCIENCE AND PROGRESS.

EQUIPMENT FOR ELECTRICAL ENGI-NEERING AT CORNELL.

A Comparison Between Healthy and Unhealthy Occupations, with Interesting Statistics Relating Thereto-Experiments Illustrating the Pressure of Air.

The experiment of the Magdeburg hemispheres, illustrating the pressure of the air, can be cheaply and easily performed. La Nature gives the following directions for doing it: Take two glass tumblers; place a bit of lighted candle in one and cover it with the other, first placing a piece of moistened blotting paper between them.



FIG. 1—SIMPLE SCIENTIFIC EXPERIMENT.

The candle heats the air, which expands and escapes, and finally is extinguished for lack of oxygen. As soon as the air begins to cool it contracts, and as partial vacuum is produced in the tumblers, the wet paper forming a practically air tight joint, and the whole apparatus can be lifted by the upper tumbler, the pressure of the outside air being sufficient to hold the lower one in place. The paper separating the tumblers is often broken by the expansion of the air in the upper tumbler, which is not rarefied by the candle; but this does not interfere with the success of the experiment, and is only another illustration of the atmospheric pressure.



FIG. 2-SIMPLE SCIENTIFIC EXPERIMENT.

Take two forks and join them together at an angle by the prongs; then slip between them a silver dollar. The weight of the handles of the forks will bring the center of gravity of the whole system much below the edge of the coin, which can be then placed in any position, and will always remain perfectly balanced. The engraving shows how the apparatus is constructed, and also how the coin can be balanced on the edge of a goblet while the water is poured out of it. It will also stand equally well on a knife blade or even the point of a pin.

Healthy and Unhealthy Occupations. The English registrar general has made a comparison between the healthy and unhealths occupations. Assuming the normal average death rate of the community as the unit of comparison, and calling it 1,000, particular occupations may be regarded as healthy or unhealthy according as the death rates among those pursuing them fall above or below that figure. The most healthy occupation appears to be that of ministers of religión, whose rate is 556. Next are gardeners and nurserymen, 590; farmers and graziers, 631; agricultural laborers, 761; schoolmasters, 719; and grocers, coal merchants, paper, lace and hosiery manufacturers, wheelwrights, ship builders and coal miners, with all of whom the average death rate is under 775. The most unhealthy occupations are the trades connected with the liquor traffic and hotel service, with which the death rate is 2,205; following these are general laborers in London, 2,020; costermongers, bankers and street sellers, 1,879; innkeepers, etc., 1,521; and brewers, 1,361. After the trades connected with alcohol, the highest rates are furnished by occupations that involve the breathing of dust-other than coal dust-and exposure to lead poisoning. The death rate among butchers is also high, 1,170.

Sorghum Sugar.

A correspondent writing from Fort Scott, Kan., in Science, on the results of experiments carried on in Kansas under the auspices of the department of agriculture, in making sugar from sorghum, says: This much, at least, can be said of these

experiments: they have shown that good marketable sugar can be made from sorghum cane in sufficient quantities to pay at the present prices for the products and by-products of the manufacture. The question as to whether we are to have a national sugar industry in the United States will probably work out its own solution before many years.

These experiments in the manufacture of sugar should have a particular interest for scientific men, for their success means not only a triumph of science, but also a complete vindication of the policy of giving governmental aid to scientific investigations. The development of the sorghum sugar industry so far has been carried on entirely by the department of agriculture with appropriations made by congress for that purpose.

Electrica! Engineering at Cornell.

The equipment at Cornell in the line of electrical engineering bids fair to become, according to Science, the most complete in the country. It has been almost whoily contributed by friends of the university. The last and most important addition to the collection is that of the Westinghouse 650 light alternating current dynamo, exciter, lamps and other material required in establishing the plant. The list of dynamos now includes the Edison, the Gramme, the Mather, the Westinghouse alternating current, the Westinghouse continuous, a number of Weston and minor makes, and all sizes, from a little toy machine made in the university shops to the 50 or 60 horse power machines just added to the list.

The Power of the Camera.

The photographer's lens is more discerning than the naked eye. A recent photograph of a figure painting by an American artist shows that a woman's gown was first painted a bue and texture very different from that finally chosen, the underlying brushwork appearing plainly in the photograph, though not seen by the most attentive observer of the original picture. In like manner photography reveals stars that to the human eye are not distinguishable from nebulous matter.

WHO WROTE SHAKESPEARE!

How the Element of "Doubt" Leads to Grand Achievements.

The world is agitated again over the question of who was the author of Shakespeare's

The world is full of doubting Thomases. The man who has been successful in exciting the present momentary interest in the subjects, is like most successful agitators, an Irishman. He claims to have discovered a cipher running through the Shakesperian plays which proves them to have been written by Lord Bacon. It is also claimed that there is a cipher in the epitaph on the mossgrown tombstone, which, properly inter-

preted, leads to the same conclusion. The age shows a decided inclination to pry into mysteries. 'It can make no difference to Shakespeare

now whether the world believes he wrote the plays that bear his name or not. The plays are immortal. Ignatius Donnelly cannot rob us of these

grand works, even though he should succeed in robbing Shakespeare of his glory.
Were it not for doubting Thomases many of man's great accomplishments would never

have been brought to successful issue. Men have been stricken dewn without warning. Doubt put in motion the investi-gation which ascertained the cause. After the discovery of the cause, the world was ignorant of any remedy with which to stay the terrible slaughter of humanity, and medical science said it was impossible. Doubt led the way to the light, and Warner's safe cure solved the seemingly unsolvable problem. Its friends tell us with conclusive proof that the unsuspected kidney disease befouls the blood and causes most of our diseases !

For years the heart was looked upon as the most important organ in the body, but doubt led to further inquiry, which developed the fact that the kidneys are the real bloodpurifiers of the system and these organs now attract the first attention of the careful practitioner. It is now a recognized fact that if they are put in a healthy state by the use of that remedy possessing such wonderful curative and cleansing powers most of the prevailing diseases of the system will be easily overcome, since their cause will be re-

How unimportant, in comparison with such problems, is the present discussion as to the authorship of Shakespeare.

ANOTHER MEDIUM EXPOSED.

Caught During a Seance at Boston A Scene Add the Outcome of It.

Boston, Nov. 28.—One of the most pro-

minent materializing mediums in Boston for a long time has been Mrs. Herman B. Fay. One afternoon the Record sent a party of ten young men and two young women to one of her seances to test the genuineness of her spiritual manifestations. The visitors found fifteen others present, most of them men. Daylight was shut out of the room where the seance was given by heavy draperies. In one corner was the cabinet, and opposite it were about 30 chairs for visitors arranged in a semi-circle. A pale, dreamy looking woman played on a cabinet organ. Mrs. Fay is of medium height and is a strong, athletic appearing woman. After announcing her rules, and collecting \$1 a head from each person present the seance was begun. A figure in white emerged from the cabinet at three different times and beckoned to persons in the room to come into the cabinet where they were greeted by alleged spirits of dead relatives or friends. The figure appeared a fourth time, and evidently being convinced that it had a sympathetic audience, ventured far down the room. It appeared as a gypsy girl with long hair flowing down her back. Advancing boldly, it passed in front of one of the investigators and confidingly stretched forth both hands. Like a flash the man clinched them in a strong grasp and ejaculated "Now." Instantly a man ignited a bunch of matches, and the chandelier was a blaze of light. Other ready hands stripped away the curtains, and the sun's rays flooded the room. In the center of the room, directly under the blaze of the chandelier, struggling, fighting, biting, scratching like a tigress in the grasp of four strong men, who had all they could do to hold her, was Mrs. Herman Fay. She had said that the form would not be hers, but she got there just the same. Her flowing hair, a switch about two feet long, had been torn from her head in the melee, as was also her "spirit robe," a piece of cheap cotton gauze about four yards long and two and a half yards wide. Capt Dixon, the master of ceremonies, who attempted to rescue Mrs. Fay, was grabbed around the neck by another athletic young man. He struggled vigorously, and shouted: "D-you, let me go," but he was held in a firm grasp. A pair of shoes found in the cabinet were composed of three pieces of cork nailed together, one on top of the other, and having a strap to fasten them to Mrs Fay's feet. When she represented tall figures she put these on her feet. Loud demands for their money were made by the unbelievers, and Capt. Dixon was compelled to shell out \$1 to all who demand-

ed it. The exposure was complete. WHO'S GOING AWAY NOW?

Conditions Under Which Goods Are Not Dutiable-Settling at the Cape.

WASHINGTON, Nov. 29-Assistant Secretary Maynard has informed the collector of customs at Cape Vincent, N.Y., that the office furniture, such as desks, safes, account books, stationery, etc., of a firm doing business in Ontario, which proposes to remove its business to Cape Vincent, will be free of duty on importation into the United States, under the provisions of the free list for books, household effects, etc., of persons or families from foreign countries, provided the same have been used by them abroad for not less than one year, and are not intended for sale or for other persons, and the further provisions for professional books, implements, instruments and tools of trade, Mr. Maynard says, also, that carriage horses are exempt from duty under the provision for household effects.

A Matter of Economy.

As a matter of economy B. B. R. is the cheapest medicine in use, for it takes less to cure chronic diseases of the stomach, liver, kidneys and blood, than of any other known remedy. B. B. is only one dollar a bottle.

Value and Quality.

Z. Prevost, of the New York elothing store, has a splendid assortment this season of beavers, French knapps and meltons, in all shades for overcoats; also two hundred pieces of well-assorted Scotch and Canadian tweeds to select from for suitings. Remember he guarantees a first class fit.

Removes the Cause. Many persons suffer from a symptom of catarrh that causes nausea, more especially after eating in the morning. Nasal Balm

will cure by removing the cause. A traveler's samples of plush goods to be sold at half price, at M. Kirkpartick's, 159

Princess St. Breck & Booth's is the cheapest place for pine blocks, bunchwood, hard or soft wood, cut or un-cut.

LADIES'RUBBERS 35 CENTS

ARMSTRONG'S.

We have just received 500 Pairs of Ladies' American Croquet Rubbers, double thick heel and sole, selling for 40c. These are regular 50c goods. All our Rubber Goods fitted with the Hartford Heel Plate. With this plate they will give you double the wear.

D. F. ARMSTRONG,

141 PRINCESS STREET.

NEW DRESS GOODS AT LOWEST FIGURES

M'MAHON'S.

Black and Colored Cashmeres from 25c. Best Value in the city in Heavy All-Wool Dress Goods in all the newest shades of Greys, Browns, Fawns, Heliotropes, Navys, Bronzes, Gobelins, &c., in Single and Double Widths, See the New Linsey Flannel for 15c.

A. J. McMAHON. IIO Princess St., Agency for Universal Fashion Co's Perfect Fitting Patterns.

Dr. J. Collis Browne's Chlorodyne.

THE ORIGINAL AND ONLY GENUINE.

ADVICE TO INVALIDS—If you wish to obtain quiet, refreshing sleep, free from headache relief from pain and anguish to calm and assuage the weary achings of protracted disease, invigorating the nervous media, and regulate the circulating systems of the body, you will provide yourself with that marvellous remedy discovered by Dr. J. Collis Browne (late Army Medical Staff) to which he gave the name of CHLORODYNE, and which is admitted by the profession to be the most wonderful and valuable remedy ever discovered.

CHLORODYNE is the best remedy known for Coughs, Consumption, Bronchitis and Asth

CHLORODYNE acts like a charm in Diarrhoga, and is the only specific in Cholera and Dy CHLORODYNE effectually cuts short all attacks of Epilepsy. Hysteria, Palpitation and CHLORODYNE is the only palliative in Neuralgia, Rheumatism, Gout, Cancer, Toothache

From Symnes & Co., Pharmaceutical Chemists, Medical Hall, Simla, Jan. 5, 1880. To J. T. Davenport, Esq., 33 Great Russell Street, Bloomsbury, London. Dear Sir, -We embrace this opportunity of congratulating you upon the wide-spread reputation this justly esteemed medicine, portunity of congratulating you upon the wide-spread reputation this justly esteemed medicine, Dr. J. Collis Browne's Chlorodyne, has earned for itself, not only in Hindostan, but all over the East. As a remedy of general utility we must question whether a better is imported into the country, and we shall be glad to hear of its finding a place in every Anglo-Indian home. The other brands, we are happy to say, are now relegated to the native bazaars, and judging from their sale, we fancy that their sojourn there will be but evanescent. We could multiply instances "ad infinitum" of the extraordinary efficacy of Dr. Collis Browne's Chlorodyne in Diarrhosa and Dysentery, Spasms, Cramps, Neuralgia, the Vomiting of Pregnancy, and as a general sedative, that have occurred under our personal observation during many years. In Cholera, Diarrhosa, and even in the more terrible forms of Cholera itself, we have witnessed its surprisingly controlling tower. We have never used any other form of this medicine than Collis Browne's, from a firm power. We have never used any other form of this medicine than Collis Browne's, from a firm conviction that it is decidedly the best, and also from a sense of duty we owe to the profession and the public, as we are of the opinion that the substitution of of any other than Collis Browne's is a DELIBERATE BREACH OF FAITH ON THE PART OF THE CHEMIST, TO PRESCRIBER AND PATIENT ALIKE. We are, Sir, faithfully yours, Symes & Co., Members of the Pharmacy Society of Great Britain. His Excellency the Viceroy's Chemists.

CAUTION—Vice Chancellor Sir Page Wood stated that Dr. J. Collis Brownews undoubt

edly the inventor of CHLORODYNE that the story of the defendant Freeman was deliberately untrue, which, he regretted to say, had been sworn to. See "Times," July 13, 1864. Sold in bottles at 1s, 11d., 2s, 9d., 4s, 6d., and 11s, each. None is genuine without the words "DR J. COLLIS BROWNE'S CHLORODYNE" on the Government Stamp. Overwhelming medical tests mony accompanies each bottle.

CAUTION - Beware of Piracy and Imitation.
Sole Manufacturer, T. J. DAVENPORT. 33 Great Russell Street, Bloomsbury, London Eng

CONPANY'S 1 Liebig EXTRACT

Cookery Dooks post free on application.

in Blue Ink across the Label.

FINEST ATO C EAPEST MEAT FLAVOU ING STO K FOR SOUPS MADE DISHEY & SAUCES. To be had of all St r. lespers, Grecers,

. Ask for the COMPANY'S Extract, and see and chemists. Sole Avents for Canada and the United States (wholesple only) C. David & Ce., that it bears Baron Liebig's Signature 9, Fenchurch Avenue, London, England.

WEEK AGAIN **BOWES & BISONETTE**

Will offer Special Bargains in Corsets, Kid Gloves, Laces, Ribbons, Collars and Cuffs, Wool Hosiery and Gloves, Fancy Wool Goods, and Thousands of Novelties in Fancy Goods at

THE CHEAPSIDE,

OPPOSITE THE WINDSOR HOTEL.

FEATHER TRIMMINGS JUST RECEIVED BY

RICHMOND, ORR & CO.

Feather Trimmings in Cream, Pink, Chinchilla, Grey, Myrtle, Bronze,

Brown, Navy and Black. SOMETHING SPECIAL-One Hundred Yards of FINE BLACK CORKSCREW, bought at about One Half Actual Vaiue, and will be sold accordingly. It is suitable for either Men's Coating or Ladies' Mantles. Call and see it, as it is virtually giving gold dollars for fifty cents, selling it at the price. Remember

RICHMOND, ORR & CO.

FLANNELS!!

Heavy Plain and Twilled All-Wool Grey Flannels, 3-4 of a yard wide, only 20 CEN1S.

Another Lot of Soiled Blankets, even Better Value than before, and at Lower Prices.

M'FAUL.

a the Electors of Colorans Marc

STATE STOLEN STATE OF THE PROPERTY OF

ARRIVED -AT THE PALACE BOOT & SHOE STORE A Full Line of CHILDREN'S AND MISSES' SCHOOL BOOTS. We have also, without doubt, the Finest OIL GOAT BOOT FOR LADIES BRESEE & ROCKWELL,

167 Princess Street, next door to Powell's Photograph Gallery.

Fine Gold Jewelry, Solid Silver Jewelry, &c., just received. 179 Wellington St., near Princess. w Watches, Clocks and Jewelry Repaired.