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# CANADIAN DRUGGIST.

DEVOTED TO THE INTERESTS OF THE GENERAL DRUG TRADE AND TO THE ADVANCEMENT OF PHARMACY.

VOL. 3. { PUBLISHING HOUSE, STRATHROY, ONT. }

MARCH, 1891.

{ 6 WELLINGTON ST. WEST, TORONTO, ONT. } No. 3.

## CANADIAN DRUGGIST.

WILLIAM J. DYAS, - Editor and Publisher.

SUBSCRIPTION, \$1 PER YEAR, IN ADVANCE.  
Advertising Rates on Application.

The Canadian Druggist is issued on the 15th of each month, and all matter for insertion should reach us by the 5th of the month.  
All cheques or drafts to be made payable to the editor. New advertisements or changes to be addressed

CANADIAN DRUGGIST,  
TORONTO OFFICE, STRATHROY, ONTARIO.  
6 Wellington St. West.

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used as a text-book in many Colleges of Pharmacy and is highly recommended by the pharmaceutical press of the United States and England.

PROF. J. T. FOTHERINGHAM, B. A., Lecturer in Materia Medica, Latin, Microscopy, and Pharmacognosy, has been for nearly four years resident Assistant Classical Master in Upper Canada College and is spoken of as an exceptionally good teacher.

PROF. GRAHAM CHAMBERS, B. A., M. B., Lecturer on Practical Chemistry and Toxicology, obtained his Arts degree in 1886, and graduated in medicine in 1889, obtaining the Gold Proficiency and Silver Starr Medals, also spent a session in



A. Y. SCOTT, M. A., M. D.



CHAS. E. HEEBNER, PH. G.

### The New Professoriate.

We have much pleasure in presenting to our readers portraits of the recently appointed Professors of the Ontario College of Pharmacy.

PROF. A. Y. SCOTT, B. A., M. D., Dean, and Lecturer on general Chemistry and Botany, is a graduate in honors in the Department of Natural Science, University of Toronto. He matriculated in 1878, graduating in 1882 with First Class honors. Although holding the degree of M. D., he has not been engaged in the practice of medicine, but has taught in Upper Canada College for the past nine years, in which work he is still engaged.

PROF. CHARLES F. HEEBNER, PH. G., Lecturer on Pharmacy, Theoretical and



G. CHAMBERS, B. A., M. B.

macy in the New York College of Pharmacy, and also for 12 years chemist in charge of the laboratory of Lazell, Dalley & Co., of New York. He is also author of a "Manual of Pharmacy and Pharmaceutical Chemistry," which is now



J. T. FOTHERINGHAM, B. A.

Germany attending Prof. Liebrich's Pharmacological Laboratory in Berlin University. He has paid but little attention to the practice of medicine, devoting himself principally to study and teaching.

### More Remedies for Tuberculosis

DR. KOCH'S bacterium essence has been named "Tuberculin." There are signs that this definition is rather in the way of an epitaph than of a baptism. But the wonderful boom of enthusiasm which his announcement excited naturally tempts other discoverers into the same field. A short time ago two important lectures were delivered—*one* in Paris, the other in Berlin—both by eminent investigators, in which methods of treatment

quite different from that of Koch were explained and demonstrated. The remedy proposed by Professor Liebreich, of the Pharmacological Institute, Berlin, is cantharides. This is an old treatment revived. French physicians gave cantharides long ago in tuberculosis, and, it is said, with success; but the crude fly was too variable in strength, and consequently too uncertain in effect. Professor Liebreich employs cantharidate of potash, injecting it in doses of two deci-milligrammes. He claims that in this dose an effect will be produced on capillaries in a state of irritation only. Liebreich says that in this condition the cantharidate excites the exudation of serum, without cellular exudation, and he supposes that the serum thus exuded may have a disinfectant action. At any rate, he believes he has proved that it has a value in the treatment of bacterial disease. He claims to have obtained benefit in several cases by this method.

Dr. Bernheim, of Paris, offers what seems to be a more substantial system of cure. This has been already described, and the demonstration on Wednesday was intended as evidence of progress. Dr. Bernheim is treating a number of tuberculous patients by transfusing into their veins the arterial blood of the goat. The goat is believed to be proof against tuberculous disease. The operation, as exhibited, consisted in binding a goat firmly in the doctor's study, then an assistant cut the throat down to the carotid artery with a bistoury. This was the third time in the present month that the animal had gone through the same process. The last time two kilogrammes of blood were taken. Some hours later it was on its feet again and eating. The human subjects enter and present their bare arms to the operator, kneeling close to the table where the goat is lying. The patients, chiefly women and girls, had all been transfused already once or twice. As an ordinary bleeding, the patient's arm is tightly banded above the elbow. A small incision is then made with a lancet, when the venous blood begins to flow. Then the assistant introduce into the incision a cannula ending in an indiarubber tube, a cannula at the other end being fixed in the carotid artery of the goat. One minute and a half suffices to inject 150 grams of blood, meanwhile the patient converses calmly. Dr. Bernheim gives very hopeful reports of his success in the twenty-two cases of tuberculosis he has so far experimented with, some of which he states were almost desperate when the treatment was commenced.—*Chemist and Druggist*.

#### Indigo-Blue Hectograph Ink.

We have, for some time past, been using a new kind of ink for polygraph purposes. Having become dissatisfied with the ordinary violet ink, and desiring to replace it by a blue one, we tried at first every kind of blue aniline color accessible in the market. None of them,

however, was fully satisfactory, some being too dull in color and others not being lasting enough, that is yielding only a small number of good copies. It occurred to us next to try to combine several colors, not exactly with a view to obtain a blue, but rather a very dark and persistent green color. In one experiment we found to our surprise that the addition of green to methyl violet, in certain proportions, resulted in the production of a very handsome blue. The reason of this, in our opinion, is that the green neutralizes the red of the violet, which latter is composed (mainly) of red and blue, and that, therefore, the blue tint alone remains. The tint is, however, much intensified by the presence of the neutralized mixture of green and red. After some further trials we found the following combination to produce the best results, furnishing an ink which yields polygraphic copies of a very fine, brilliant indigo or "navy" blue. The names of the colors are those used in the trade.

Brilliant green, crystals.....	3 parts.
Hofmann's violet, 4 B.....	3 parts.
Glycerin.....	1 part.
Water.....	10 parts.

Mix the two coloring matters in a mortar, and reduce them if in lumps, to a moderately fine powder. Transfer this to a tared flask, add the glycerin and water, and heat the flask on a water bath, frequently agitating, until the colors are dissolved. Then allow the flask to cool, replace it on the scale, and restore the loss of water. Transfer the product to small vials.

Since a little of this ink lasts a long time, it is best to keep it in small vials, since the bulk would, by gradual evaporation, become too thick, and the lost water could only be replaced by guess.

Ink stains produced by it upon the hands, etc., may be readily removed by washing with alcohol strongly acidulated with acetic acid.—*American Druggist*.

#### Artificial Lemon and Orange Syrups.

For Lemon Syrup.—Dissolve in 12 parts of alcohol of 95° and 25 parts of water, 4 parts of tartaric acid and 8 parts of citric acid. Add to the solution 40 parts of lemon essence prepared and directed below, and 1,000 parts of simple syrup.

To prepare the lemon essence, proceed as follows: Peel thinly 25 fresh lemons, and cut up the peelings (about 14 ounces in all) into little pieces. Put the whole in a mixture of 24 ounces of alcohol of 90° and 2½ pints of water and let macerate for twenty-four hours. To the macerate add 10 drops lemon oil, and 10 drops of orange oil, and distill slowly until 2 pounds of distillate pass over. The distillate will be quite turbid, and must be set aside for eight or ten days, being agitated quite frequently, and at the end of this time it may generally be filtered off clear and bright. If this is not the case, add sufficient alcohol to clear. It is now ready for use but is

improved by the addition of a little vanillin. To color, add 1 dram tincture of turmeric and an equal quantity of solution of caramel.

For Orange Syrup.—Dissolve in 10 parts of alcohol and 10 parts of water, 5 parts tartaric acid, and to the solution add 45 parts of orange essence (made as directed above for lemon essence, substituting fresh medium-sized oranges for lemons), and 2 pints of simple syrup.

According to the *Berliner Pharmaceutische Zeitung*, these syrups keep indefinitely, are of exquisite flavor, and make clear solutions with plain or carbonated water, thus fitting them for soda-fountain use.—*National Druggist*.

#### Buchu as a Perfume.

For some time there has been a great scarcity of buchu leaves, and the value of the round leaves (*Barosma crenulata*)—which is the variety most commonly met with in our market—has risen from about 2d. to 6d. per lb., although it is now again falling. The drug belongs to those minor articles of materia medica of which the supply and demand are not sufficiently important to create a regular speculative market. It was introduced into European medicine in 1821, although long before that time the leaves were used by the natives of South Africa, not so much it would seem, as a medicine as a perfume! Says a South African traveller, in a book published early in the present century:—"The Hottentots perfume their bodies by daubing them all over with the powder of an herb, the smell of which is at once rank and aromatic, approaching to that of the poppy mixed with spices. For this purpose they use various species of the diosma, called by them *bucku*, and which they imagine to be very efficacious in the cure of disorders. One species of this plant, growing about Goud's river, is said to be so valuable that no more than a thimbleful of its powder is given in exchange for a lamb.—*Chemist and Druggist*."

#### Cement for Broken Meerschaum

CURDLE a little skim milk with acetic acid; separate the albumen and dry it quickly. When dry triturate to a very fine powder, add to it one-tenth its weight of dry quicklime, and to every one-hundred parts of mixture add one of camphor. Triturate well together and keep in a well-corked bottle. To use make into a paste with water, and apply quickly. Let the joined pieces rest in a warm place unmoved for 24 hours, so as to allow the cement to set thoroughly. If the parts you wish to join are colored you can make the joint almost invisible by first treating the cement powder, before wetting it, to the desired shade.—*British and Colonial Druggist*.

The man who never does a kind action robs himself of a great satisfaction.

Did you ever know a man who did himself any good by living for himself alone?

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Tuft's Arctic and Siberian Patents.

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*SPECIALTY: Patent drawer Syrup Tanks of Glass and Porcelain.*

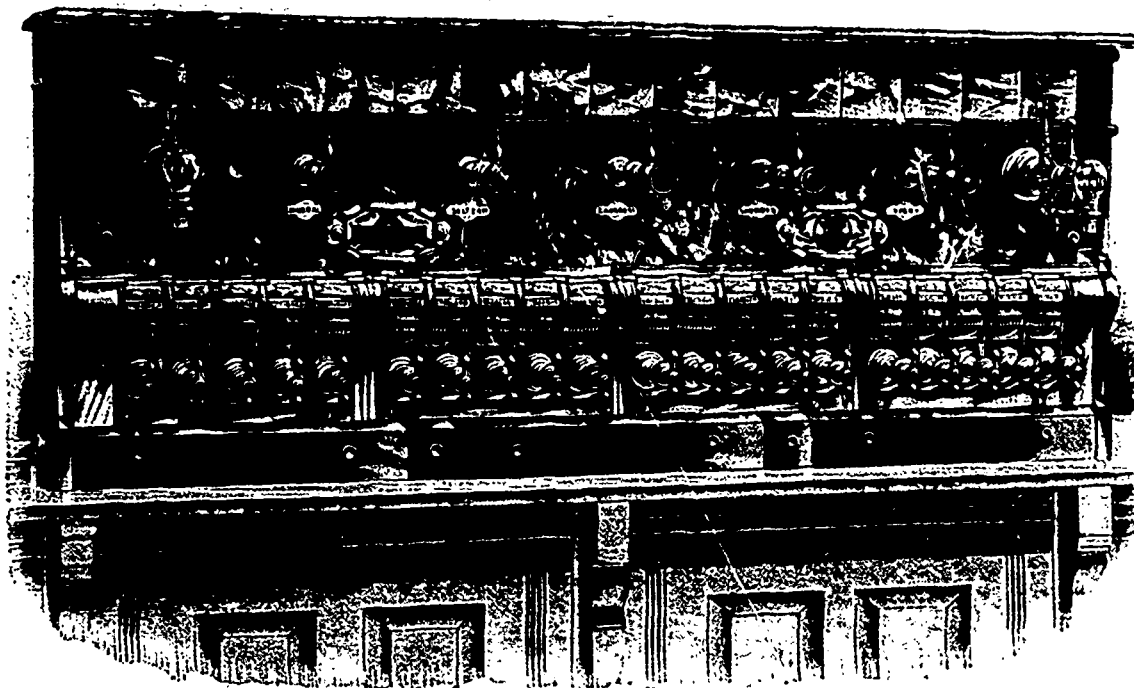
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First-class Druggists throughout the United States find Soda Water the most profitable branch of their business.

Every first-class Canadian Druggist who does not dispense Soda Water should at once add an apparatus to his fixtures.

It is a beautiful piece of furniture, and will invariably pay for itself in a very short time, usually the first season.

If you have a soda fountain which is not profitable, it is because you have not kept abreast of the times. You can make soda water as profitable as thousands of your fellow druggists make it.



THE MILESIAN, SIBERIAN-ARCTIC.

My illustrated catalogue and price list will be mailed free to any Druggist thinking of buying.

Address all Communications to

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When writing for my Illustrated Catalogue or Price List of Second-Hand Apparatus, you will confer a favor by stating where you saw this advertisement.—J. W. TUFTS.

## HOW TO MAKE IT PAY.

I will take your obsolete and perhaps worn out apparatus in part payment for a new one, allowing liberally for it and will make terms of payment for balance so easy, that in all probability the increased profit will pay it.

I will provide with the apparatus formulas for all the latest and most popular drinks, and hints about all the latest novelties in the business, so that you cannot fail to find a soda fountain a gold mine, as many others now find it.

There is to-day a promising field in Canada for a soda water dispenser, who will take pains to produce a high grade of beverages and serve them daintily.

Second hand apparatus in thorough repair at very low prices, and on particularly easy terms.

# HOLIDAY - GOODS

-FOR THE-

1890—DRUG TRADE—1891

Our travellers are now on the road with samples of Holiday Goods. Our range is much greater than ever before. Notwithstanding the late advance in customs duties, imported lines are lower than ever, and in style and finish far surpass any previous effort.

Fancy Leather, in most artistic patterns, seems to be the favorite material this season. Brush, Comb and Mirror Sets, Ladies' and Gents' Travelling and Toilet Sets, Ladies' and Gents' Cuff and Collar Sets, Handkerchief and Glove Sets, Jewel Boxes, Toilet Necessaries, Work Sets, Tablets, Music Rolls, Olor Cases, Manicure and numberless other varieties.

We are showing an extensive range of Oxidized Silver Cases in all varieties, some 50 different patterns.

French and German, fancy and plain, Cut Glass Bottles.

Fancy Basket Perfumes, our own designs, a line that will pay every druggist to handle. Allows a handsome margin of profit.

Push is still selling and we are as usual showing all the new and saleable lines, from the home manufacturers.

N. B.—As we confine our trade almost exclusively to Druggists, we would respectfully request an inspection of our samples before placing any Holiday orders.

## Smith & McGlashan Co.,

DRUGGISTS' SPECIALTIES,  
53 Front St. East, - Toronto.

## Lawson & Jones,

FOREST CITY LABEL WORKS,  
LONDON, - CANADA.

ESTABLISHED 1882.

We are the only firm in Canada devoting special attention to

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and with our present facilities we can successfully compete with any of the American or European label houses. We invite comparison of our work and prices with others. We also supply Ester Turned Wood Boxes, Gill's Sealless Tin Boxes, Paper Pill and Powder Boxes, Cartons and special lines of Containers.

Write for Catalogue. Mention this paper.

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226 King Street, London, Canada.



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WHOLESALE OPTICIANS,

251 St. James St. - MONTREAL.

A Specialty made of Assortments  
for Drug Stores.

By using their Test Cards a customer can be suited at the first attempt.

# J. PALMER & SON

1743 & 1745 Notre Dame,

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Special prices given for Import Orders on  
Brushes and Perfumery.

We have just received and our stock is now complete in the following:

Turkey and Honey Comb Sponges, 250 Cases.

Chamois Skins, extra quality and good value.

Violet and White Lilac Perfumes, the latest and best.

Also Roger & Gallet's, Coudray's, Gelle Freres, Pinaud's and Pivers', Colgate's and Vennard's Perfumery.

A splendid variety to select from.

## R. BRAYLEY,

Wrapping Papers,  
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Tags, Commercial Stationery, Blank Books, Sea Island Twine, Bondoir Paper, Comb Bags, Tooth Brush Bags, Seidlitz Powder Boxes, White D. D. Paper, D. Blue Paper, etc., etc.

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Unequaled for Richness and Beauty of Coloring.  
They are the ONLY DYES that

**WILL NOT WASH OUT !  
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There is nothing like them for Strength, Coloring or Fastness.

ONE Package EQUALS TWO of any other Dye in the market.

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## Our Stock of First-class

## Druggists' Sundries

Is daily approaching completion.

The values in BRUSHES of all kinds, COMBS, PUFF BOXES and PUFFS, and general line of SUNDRIES, are such we can suit almost any one. It will pay you to see the lines before buying.

We are daily adding to our line of  
**S. C. PILLS, TRITURATES and HYPO-  
DERMIC TABLETS.**

Write for Quotations on

## S. C. Quinine Pills

## TRADE NOTES.

Mr. J. Lawrence, of Hamilton, Ont., is now manager of the Rhynas' Estate drug business, Goderich, Ont.

E. Shoff, Walkerville, has sold out to H. J. Childs, of London. Mr. Shoff is going into business in Axtell, Neb., U. S.

A. Marling, druggist, New Westminster, B. C., was a sufferer by fire on Feb. 15th. Insurance, \$10,000, on a stock of \$25,000.

C. R. Sneath, formerly of Penetanguishene and late of St. Marys, has bought out J. Stewart's business, Broadview Avenue, Toronto.

G. S. Robertson, who formerly represented Wyeth's Pharmaceutical Preparations on the road, has opened a drug store in Hamilton, Ont.

Dr. Shannon, of Goderich, one of the oldest practitioners of that town, who a year ago went to New York to have a surgical operation performed on his eye, keeps hale and strong, with perfect vision, after suffering from loss of sight for a great number of years.

Mr. John A. Clark, President Ontario College of Pharmacy, has removed from the stand so long occupied by him, on the corner of King and Hughson Sts., to 77 King St. East, opposite the Post Office. His new premises are more commodious and handsomely fitted up.

Dr. Alice McGillivray, the first lady Professor in the Women's Medical College, Kingston, Ont., has gone to practice medicine in Chicago, Ill. While in the Royal College of Physicians and Surgeons she won the only medal offered for third-year students. She is also a gold medalist of Queen's University. In 1884 she was appointed Professor in the Women's Medical College.

### British Columbia Notes.

Business during the past month has continued good, and all lines, drugs included, look forward to an increase of trade with the approaching spring.

Langley & Co., wholesale druggists, Victoria, are contemplating a new departure in their business which is the putting in of a full line of dental goods. Having a complete stock of dental supplies so centrally located from which orders may be filled in two or three days at the farthest, will prove a boon to the dentists of British Columbia, who at the present time are greatly inconvenienced by the delay in getting supplies from the east. We predict for Messrs. Langley & Co. success in their new venture.

Messrs. Cochrane & Munn, the aggressive and enterprising retail druggists of Victoria, seem determined to keep at the top. They have placed their store, which is already the handsomest in the city, in the hands of a noted New York frescoer, and they confidently affirm that, when he has completed the contract, they will have the finest drug store west of Toronto.

Mr. Munn, of Cochrane & Munn, was elected one of the representatives of James Bay Ward in the City Council, at the recent elections on Jan. 15th.

The Pharmacy Bill has passed its second reading in the House and is at present in Committee, with good prospects of becoming law.

There is a rumor abroad that a wholesale drug house is shortly to be established in Vancouver by a local syndicate, with a capital of a quarter of a million dollars.

T. R. Morrow, of Vancouver, has recently started a branch store in the suburbs of the city, in the vicinity of False Creek.

A fire at New Westminster on Sunday, Feb. 15th, destroyed \$100,000 worth of property in the business portion of the city. Among those burnt out was A. M. Herring, druggist. The fire made a clean sweep of his stock, nothing being saved. Mr. Herring carried \$12,000 insurance which will in some measure indemnify him for his loss. It is generally reported that he will not start in business again.

### Manitoba Notes.

Mr. J. K. Patton, of Minnedosa, has removed to his new store, the interior arrangement of which reflects credit on the designer, Mr. Mason, of that town.

Dr. Crookshanks, of Rapid City, has added greatly to the appearance and convenience of his store by refitting and enlarging.

Dr. Gunn & Co., of Glenboro, are about to open a drug store at Cypress River.

Dr. Siemens, Gretna, has opened a well equipped drug store in that town, and reports trade good.

Messrs. Harrison & Co., of Neepawa, have removed to better premises.

Mr. Moncton, of Messrs. Inman & Moncton, Winnipeg, with his wife and daughter, are spending the winter in Oakland, Cal.

Mr. N. H. Jackson, Winnipeg, has removed to enlarged premises on the corner of Main and McWilliam streets.

### Nova Scotia Notes.

THE druggists of Nova Scotia are incorporated as the Nova Scotia Pharmaceutical Society. Members pay an annual fee of two dollars, and no person can legally do business as a retailer or dispensing druggist who is not on the register of the Society. This body was originated in 1876, as a means of self-defence against threatened encroachments by some of the medical men, who were seeking to require from druggists examination at the hands of the Medical Board, and payment of fees therefor. The druggists, while resisting successfully the interference of the "medicos," took the matter up themselves and secured the passage of a law by which all druggists then in business were incorporated, and provision made for an annual

examination and the granting of diplomas of competency to those who should successfully pass it. The examining board consists of five members, —two of whom are appointed by the Provincial Government, and three by the Council of the Society. The examinations, though of a very simple and elementary character at first, have steadily improved in quality. The number of candidates, from two or three at first, now number from six to ten at each examination, and two examinations are frequently held in the year. The effect, on the whole, of our legislation has been good, in evoking and encouraging an *esprit de corps* which did not before exist, and our examinations have done, and are doing, excellent service in raising the standard of acquirements among druggists and young druggists. Our law is, however, defective in many points, and its amendment is being agitated by the more progressive members of the Society. There is no limit to the number of shops which a registered man may keep, and he is not required to put any of them in charge of a registered clerk or manager. Medical men are entirely exempt from the operation of the Act, and thus a door is opened for evasion of the law, by their lending their names to unregistered men. The penalties for infringement are much too light and do not effect their purpose. In all these respects we hope to see improved legislation ere long.

The Halifax Medical College recently approached the Pharmaceutical Council with a proposal to have their diploma recognized by the Council so that their graduates may be admitted to the Society without further examination. The proposal has resulted in an agreement by which the Lecturer on Pharmacy at the College will be nominated by the Pharmaceutical Council, and be a member of the examining board of the College, and the requirements for examination made in all respects equal to our own. This arrangement will certainly add to the practical value of the College diploma, and it is believed will also be of service to many young men seeking admission to the Society.

BLUENOSE.

### Quebec Pharmaceutical Association.

#### NOTICE TO STUDENTS.

THE Semi-Annual Examinations for Major and Minor Candidates will commence on Tuesday, April 11th, 1891, at 6.30 p. m. and will be held in the Lecture Rooms of the College of Pharmacy, 575 LaGauchetiere Street, Montreal. Candidates must file their applications, duly certified, with the Registrar, on or before the 4th of April. Printed Regulations and Form of Application must be obtained from the Registrar, and be duly signed by the Applicant.

E. MUIR, Registrar.

In business matters, remember that a few drops of honey attracts more bees than a barrel of vinegar.



## Chicago News.

THE graduating exercises of the Illinois College of Pharmacy (Pharmaceutical Department Northwestern University) for the term of '90 and '91, were held in the Grand Opera House, Chicago, Tuesday, Feb. 24. Twenty-nine, out of a class of forty-two, were granted diplomas. Eight students could not graduate with the class because under age or deficient in experience.

The degrees were conferred by the President of the University, Dr. Rogers, who, in his address to the class, said that pharmacy is rapidly advancing to the dignity of a profession, notwithstanding its mercantile side, and cited in evidence the circumstance that so many of the great universities are establishing departments of pharmacy. He believed that colleges of pharmacy were as much entitled to recognition by the universities as the colleges of law and medicine, and was glad to welcome the young gentlemen before him to the privileges of alumni of the university which he had the honor to represent. He urged upon the graduates the importance of broadening out their education by reading the best English literature (not the newspapers) of the day and of the past, and of keeping abreast of the progress of science, and, in short, of making themselves worthy of their degree.

President Rogers was followed by Dr. McPherson, whose address emphasized the importance of strict integrity in their business transactions, of always bearing in mind the ethics of their profession, and of never swerving in their loyalty to their Alma Mater. He closed with a humorous reference to the relation between the professions of medicine, divinity and pharmacy, the pharmacists, said he, assists the physician in the cure of his patient, while the clergyman assists in the covering up of his mistakes.

After announcing the honor men, Prof. Uldred pronounced a little benediction and assured the members of the class that if all the good things of the world were bestowed upon them in the abundance he wished, they would never have cause to complain of his weights and measures.

The class was banquetted by the alumni association at the Wellington, Prof. Quine officiating as toast master. Speeches by President Rogers, Prof. Oldberg, Dr. N. S. Davis, Dean of the Medical Department (Chicago Medical College); Hon. Henry Booth, Dean of the Law School; Dr. J. S. Marshall, Dean of the Dental College; Will H. Lowe, class of '89; Louis E. Bonn, '89; Cary Hopkins, '88; J. H. Taylor, '89, and last by Prof. Quine, who treated the guests to a humorous dissertation which convulsed even such sedate old gentlemen as Dr. Davis and Judge Booth with laughter.

The warm sunshine and the gentle zephyr may melt the glacier which has bid defiance to the howling tempest; so the voice of kindness will touch the heart which no severity could subdue.

## The Kola Nut of Africa.

BY P. L. SIMONDS, F. L. S.

THIS seed or fruit, known under a variety of names in different parts of Africa, as kola, gaurou, ombene, mangone, kokkorokon and matrassa, has only within a few years come into important notice as a food stimulant. Twenty or thirty years ago, it was incidentally described by Dr. Daniel and Prof. Atfield, in the *Pharmaceutical Journal*, but its extensive employment in Africa was comparatively little known. Although its use as a stimulant, in the place of coffee, tea, mate and cocoa by other people, had been very general, almost from time immemorial among the various tribes of Equatorial Africa, the product was little known in Europe.

The opening up of Central Africa and the increase of trade on the West Coast has demonstrated its importance as a local article of commerce, and its chemical advantages have become duly appreciated. There are, however, two distinct products; one, the true kola nut, the product of *Sterculia acuminata*, popularly known as the female kola, and the false, or bitter kola, designated as the male kola. The true kola tree grows spontaneously over the range of Western Africa comprised between 10° of N. latitude to the 5° S. latitude. This tree, to which attention has of late years been prominently directed by the authorities of Kew, has been introduced from time to time into India, Ceylon, Seychelles, Mauritius, and Cochin China in the East; Zanzibar and Sydney, and in French Guiana, British Guiana, Guadaloupe, Dominica and Jamaica in the Western Hemisphere.

Incidental mention of this nut has been already made in this *Journal*—1880, pp. 6 and 7; 1883, p. 27; 1884, p. 166, and 1886, p. 391. The tree commences to bear at 4 or 5 years, but it is not until 10 years that it is in full fruit, when it will produce on an average 120 pounds of seed twice yearly. Flowering in June the pods will ripen in October and November, and a second crop will be yielded in May and June following. The fruits as they ripen have a yellowish-brown color, and, as the central suture opens exposes both red and white seeds. The women remove the seeds, which are most appreciated and valued when they are fresh and moist. To preserve them, they are placed in baskets, in layers, with the leaves of *Sterculia cordifolia*, which are kept damp. If they are kept, or to be transported any distance, the nuts are washed and fresh-moistened leaves added every month. The packages, weighing about 1 cwt., are sent to the Gambia, Gona and other districts. When the nuts become dry, they are reduced to powder, and taken in this state by the caravans to the interior. They frequently arrive, however, in a fresh state at Sokoto and Kouka, in the Soudan, and at Timbuctoo.

Not only are the kola nuts consumed in Africa, but they are also exported to Brazil for the use of the negroes there.

The seeds of the *Sterculia Chica* and *S. lasiantha* are also eaten in Brazil.

Sierra Leone is the principal market for these nuts. Ten years ago, about 750,000 pounds of kola nuts were imported there, and 600,000 pounds to the Gambia.

The unerring instinct of man, even in uncivilized countries, has led him to select from the many thousand plants presented to him by Nature, just four or five, which, from their alkaloid active principle, theine, seem to be a necessary rather than a luxury of life. These nuts contain more theine (viz., 2.31) than most of the other dietetic products in use. The properties of the nut are said to be two-fold. In the first place, it enhances to many palates the flavor of food eaten afterwards; secondly, it possesses the more important function of staying the cravings of hunger, and enabling those indulging in it to endure prolonged labor without fatigue. Being bitter, they are used as a stomachic and a tonic.

It is beneficial in periodical and chronic headaches, in heart complaints and diarrhoea; and, mixed with cocoa, it has been found a sustaining and stimulating adjunct in exhaustive and wasting diseases. It is said to clarify beer and spirits, and, like the clearing nut (*Strychnos potatorum*), to render drinkable foul water. It is even spoken of as a cure for drunkenness, from the amount of theine it contains. Probably other species of kola or *sterculia* may furnish seeds equally used if they contain caffeine.

The false kola nut has been named *Garcinia Kola* by Dr. Heckel, but is not yet well defined, although it resembles the Eastern *Garcinia Morella*. These seeds are employed like the true kola nuts, although they have not the same properties, being destitute of the alkaloid. They are contained in a large berry, like an apple, to the number of three or four; oval, cuneiform. They are chewed generally on the West Coast, and have a bitter flavor, like green coffee. They are said to be an effectual remedy for cold in the head, a few seeds being chewed in the course of the day.—*American Journal of Pharmacy*.

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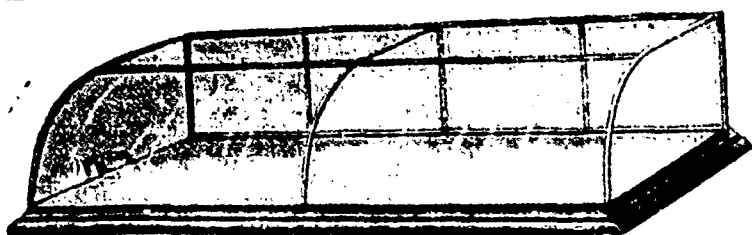
Let your recreation be manly, moderate and lawful; the use of recreation is to strengthen your labors and sweeten your rest.

Good is slow; it climbs. Evil is swift; it descends. Why should we marvel that it makes great progress in a short time?

Always do as the sun does—look at the bright side of everything; it is just as cheap, and three times as good for digestion.

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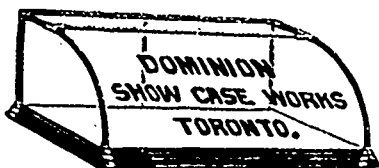
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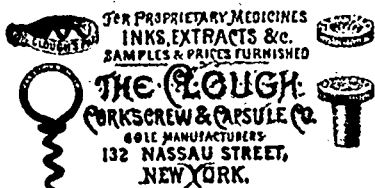
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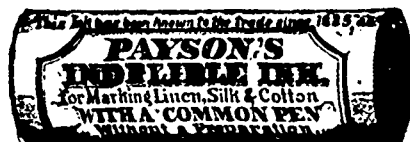
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### Progress in the Manufacture of Pharmaceutical Preparations.

THE last decade has been signalized by marked progress in therapeutics, in respect both to the discovery of new drugs and to the new application of familiar ones. The pharmaceutical art has kept pace with the science, and has in many cases succeeded in rendering concentrated preparations so palatable that the repugnance of the patient need no longer oppose the application of drugs. Germany is entitled to the credit of being the pioneer in these directions, but it was reserved to American energy and American enterprise to elevate the manufacture of pharmaceuticals to the degree of perfection achieved by the well known firm of Parke, Davis & Co. It is this firm that has ever opposed the constantly increasing patent and proprietary medicine evil and which has insisted that the manufacturer of pharmaceutical preparations should not seek his profit in the secrecy of the formula introduced by him, but only in a manner of production which safely permits of the most searching analysis, and open competition.

None of the preparations manufactured by Parke, Davis & Co. are protected by patents. The formulae are known, and it is only to the uniform excellence of their products that the firm is indebted for their universal recognition by the medical profession. A number of drugs, which have been discovered in part in the laboratory of Parke, Davis & Co., and partly by botanists and chemists in their employ, and have since been made official, have thus become common property. We mention only coca erythoxylon, cascara sagrada, Jamaica dogwood, viburnum prunifolium, grindelia robusta, manaca, gelsemium, duboisia, eucalyptus globulus, yerba santa, convallaria majalis, coto, cheken, and pichi.

Also in that field of pharmaceutical industry, in which, in the interests of the medical profession, greater accuracy, elegance, and palatability are sought for familiar agents, Parke, Davis & Co. have not been backward. Mention is due to their normal liquids, pure, reliable and absolutely uniform fluid extracts; their soluble elastic capsules which facilitate the administration of foul-tasting, disagreeable drugs like quinine, castor oil, copaiba, cubebs, oil of eucalyptus, etc.; their sugar-coated pills; their digestive ferments; their pepsin and pancreatic products; as well as their recently introduced hypodermic tablets. This list, to which we could add all the newly discovered alkaloids and glucosides, is too long for continuation. This firm, which have gained for themselves a world wide reputation for the excellence of the medicinal articles manufactured by them at their main establishment in Detroit, have lately determined to extend their manufacturing business into Canada, and to this end they have erected a large and complete laboratory in Walkerville, Ontario,

on the opposite side of the river from their home manufactory. Here they propose to manufacture all the standard medicinal products and fine pharmaceutical specialties for which their Detroit establishment is so famous, and we believe the machinery and apparatus which they have erected for this purpose are of the newest and completest kind. Parke, Davis & Co., whose energy, perseverance and originality have no bounds, have recently placed upon the market preparations of beef that are calculated to fulfill all the requirements for therapeutic and dietetic use.

### Styrone—A New Antiseptic.

DR. H. H. A. Beach announced to the Boston Society for Medical Observation, in 1879, the antiseptic value of styrone, or a compound of styrax and balsam of Peru, but owing to the cost of production, there was little demand for the drug. Now that it can be prepared at a reasonable figure, it bids fair to enter into competition with other antiseptics, notably those whose odors are objectionable, or that are feared because of their toxicity. The origin of styrone suggests the reason for employment and effectiveness of balsams in ancient, and even modern surgical dressings.

As an antiseptic, Dr. Beach claims for it three important advantages:

1. Efficiency.
2. Non-poisonous character.
3. Agreeable odor.

Surgeons universally admit the desirability of an agent offering adequate protection to wounds, and known to be devoid of toxic properties. A fluidounce administered internally to dogs, produced no unfavorable results. As a deodorizer of foul or offensive wounds or ulcers, particularly those associated with malignant disease or necrosed bone, it is as prompt, effectual and lasting as either of the offensive or poisonous applications in common use. Its odor is not unlike that of cinnamon-water. In ulcerating cancerous growths it may be conveniently sprayed upon parts too sensitive to bear the douching necessary for clearing the surface of decomposing discharges. The following formula has been found useful in such cases, with the addition of morphine as required:

R Styrone .....	1 drm.
Glycerin .....	1 drm.
Distilled water .....	1 drm.

"To raw surfaces, pure styrone is somewhat irritating; but in the form of an emulsion with olive oil, water or liquid vaseline, it may be applied freely to open wounds. In the pleural and peritoneal cavities where the greatest opportunity is offered to poisonous antiseptic for absorption, it may be freely used without danger. One part to twelve, with water, is sufficiently strong to disinfect a foul and ulcerating surface. Its action upon the cholera bacillus is so marked that a trial of it in cases of Asiatic cholera is indicated. It may yet corroborate the brilliant discovery of Koch by killing the bacillus

with which he explains cholera, and curing the patient. A solution 1:60, with a portion of glycerin added, tastes agreeable and has a gentle stimulating effect upon the mucous membrane of the mouth, not unlike that of ginger syrup."

Dr. Beach further remarks:

"I have known it to give great relief, with diminution of cough and expectoration, in a number of cases where the patients were subjects of phthisis, no other medicine being used at the time. It may be substituted for carbolic acid in gargles requiring antiseptic action. I have excised the female breast repeatedly, and after tying all vessels, washed out the resulting cavity with styrone and liquid vaselin (1:12), closed the wound with catgut sutures, enveloping the projecting ends of the drainage tubes with a bunch of charpie as large as the fist, which had been saturated with the mixture and squeezed dry, then covering the wound with two layers of sheet-lint saturated with the mixture, overlapping the incision an inch on each side. A layer of borated cotton was afterward applied to maintain an even compression. Upon removal of the dressing at the end of eight or ten days, good union without suppuration was found. No unfavorable effects from its use have been observed in any instance."—*The Medical Age*.

**HYDROFLUORIC ACID AS AN ANTIFERMENTATIVE.**—That hydrofluoric acid is a powerful antifermentative has long been known, but a practical use of this property has until recently been made only on a small scale. Some years ago an English analyst proposed to preserve specimens of milk, intended for analysis, by adding to them a minute quantity of hydrofluoric acid, which was, indeed, found to be highly efficacious. Effront has now made use of this fact for preventing the development of too large an acid fermentation in mashes from which spirit is to be distilled. It has been found that the formation of lactic acid can thus be either retarded or entirely suppressed, and that of butyric acid is still more energetically resisted. In consequence of this, the alcoholic distillate is found to be much purer and less contaminated with odorous principles, fusel oil, etc.—*Amer. Druggist*.

**NEW COLLEGE OF PHARMACY.**—S. S. Beman has prepared plans for the new home of the Illinois College of Pharmacy to be erected on Dearborn street, at the corner of Twenty-sixth street. It will consist of four stories and basement, 106 x 100 feet, pressed brick and stone front, gravel roof, hard wood finish, steam heat, electric light, architectural iron work, and the latest appliances. There will be such complete and commodious lecture and recitation rooms, laboratories, museum and library as will render it by far the most thoroughly equipped college of its kind in the country. Cost about \$1000,000.

Exactness in little duties is a wonderful source of cheerfulness.

# To Council Electors.

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Readers of this page will readily have recognized the unwillingness displayed in our last article to launch into Council troubles in connection with the college staff.

We didn't desire to prejudice in any way the interests of the professors, and therefore waited until the change was made before proceeding to discuss the pros and cons relating thereto. That disability has now been removed, and we are free to consider the matter from every point of view. Our last article ended by a reference to the work devolving on the druggists' representatives—the Council. In a late article, we quoted from the Pharmacy Act the duties and powers of this body, as laid down therein, in the interests of the professors they represent. A consideration now of how they have discharged those duties and powers will possibly be the means of throwing light on many parts of the vexed subject which now seems dark.

Prior to the Council Elections of 1887, the affairs of the college seem to have been managed very largely by Prof. Shuttleworth, under sanction of an existing Council, which either had unlimited confidence in his ability to do so, or a very limited amount of confidence in their own abilities to perform the obligation their selection as Councilors imposed on them.

At anyrate such appears to have been the position of affairs when the election for that year approached, as we find that what was termed "new blood" sought to introduce itself.

It may be that it considered the old blood had become vitiated, belonged to a preceding generation: lacked vitality to continue through another term, or that it had become so conservative that it wanted to parentalize the position for all time. At any rate what was then the nucleus, now the backbone of the present Council, made an earnest bid for the support of their confreres, when, as you are all aware, they came out last on the first count, and first on the recount, but only after they had made a legal fight for it, a fight which practically commenced then and ends now, when their last opponent has been obliged to give into their hands a management which he has so long contrived to hold, and which he has not relinquished without making a fight for its retention such as will establish a precedent in that particular sphere of action.

It has been patent to every observer who has watched College affairs with any degree of interest, that the privileges and powers accorded Prof. Shuttleworth by the old regime, have been gradually withdrawn by the new regime, who, whatever sins they may have to answer for, are freed from the charge of inertia. They took hold of the position with the avowed intention of performing themselves the work attached thereto; of husbanding the finances, and of raising the School to a place, such as an institution—provincial in character and supported by at least two-thirds of the entire number of druggists in the Dominion—is entitled to and should be expected to assume.

The demand for the writer's Preparations on page 17, are not only provincial but continental.

*(To be continued.)*

## Historical Sketch of the Ontario College of Pharmacy.

BY J. E. D'AVIGNON, WINDSOR, ONT.

THE Toronto Chemists and Druggists Association was formed in June, 1867, and numbered in its membership Messrs. H. P. Brumell, Wm. Brydon, J. Coombe, W. H. Dunspaugh, John Henderson, Geo. Hodgetts, C. E. Hooper, J. Howarth, W. Hunter, J. C. Lander, Geo. H. Leslie, N. C. Love, Geo. Massey, A. Matheson, H. Miller, E. B. Shuttleworth, R. R. Owen, J. T. Shapter, Wm. Elliott, R. W. Elliott, Jos. Davids, H. J. Rose, J. Dilworth, F. McCallum, L. P. Stickney and G. Mathe son, and was very soon added to by druggists from other parts of the Province, especially from the city of Ottawa, where nearly every druggist joined, and the growth of the Association was hastened by the publication of a monthly periodical, issued under the authority of the Association, and placed under the editorial control of Prof. E. B. Shuttleworth, who still continues his duties in that capacity. The Association steadily grew in numbers and influence and soon took measures to secure pharmaceutical education for its members and their apprentices. Free classes in chemistry were conducted in conjunction with those of the Mechanics' Institute in Toronto, and also at the house of Prof. Shuttleworth. A great deal of good was done in this way. Efforts were soon made to secure legislation for the protection of the public, and of the drug trade, and after many difficulties had been overcome an Act of Incorporation was granted by the Legislature in 1871. The title of "Ontario College of Pharmacy" was given to the organization, which had for some time been known as the "Canadian Pharmaceutical Society," and, as before said, had originated as the "Toronto Chemists' and Druggists' Association." The Act was modelled to a large extent on the Act of Great Britain (which latter was passed in 1868) and gave to druggists the exclusive privilege of dispensing prescriptions and poisons, and of selling certain specified drugs, and also conferred on them the right to examine and license those who desired to practice pharmacy, the authority being vested in a council of thirteen members, elected every two years. Power was also given to erect buildings, and to carry on a teaching college, but many years passed before sufficient money could be accumulated for this purpose. The sole revenue during these years being derived from the compulsory fees of four dollars each per annum from the druggists.

The first Council was composed of Messrs. Bickle, Brendon, Dunspaugh, Elliot, Hodgetts, Holden, Lyman, Miller, Rose, Parker, Roberts, Sanders, and Shuttleworth. Mr. Wm. Elliott, who had occupied a similar position in the old society, was the first President, and Mr. Hugh Miller was elected Vice-President. Mr. Elliot was some years later again

elected President. His son, Robert W. Elliot, who has shown for many years the deepest interest in the cause of pharmaceutical education, has since also served in the same capacity. The late Mr. Benjamin Lyman, who, during his lifetime, was the senior member of the firms of Lyman, Sons & Co., Montreal, and Lyman Bros. & Co., Toronto,—the oldest established drug houses in Canada—has also been President of the College for several terms. Mr. Wm. Sanders, so well known to all pharmacists, who has filled the office of President of the American Pharmaceutical Association, and is now Director of Experimental Farms for the Dominion Government, served a term as President of the College. Until 1882, the College existed as a corporate body only, exercising examining and licensing powers similar to those held by various State Associations, but in that year the Council decided that a teaching department should be organized. Prof. Shuttleworth was



PROFESSOR E. B. SHUTTLEWORTH.

appointed Principal, and with the assistance of Messrs. Rose and Robinson began the school in April, 1882, with an attendance of 21,—which became 45 the succeeding session. Since then the number has averaged about 60, with over 90 for the current term.

The classes were first held in a building temporarily fitted up for that purpose, at the expense of the Council, the lecturers being paid solely by the fees of the students. The entire management of the school was vested in the faculty, who were appointed by the Educational Committee, and who received and acted on any suggestions made by the latter. This plan was followed very satisfactorily until August, 1889, when the Council thought best to take more direct control of the teaching department, and fixed the salaries of the faculty at \$1800 per annum for Prof. Shuttleworth, as Dean and Lecturer on Chemistry and Pharmacy; \$1000 for Dr. Avison, and \$900 for Mr. Harrison; being for the first two named gentlemen a

large reduction from the amount of remuneration previously received by them.

This arrangement continued until the meeting of Council held last August when a resolution was passed that the engagements of Prof. Shuttleworth and Dr. Avison should terminate August 15th, 1891, and that notice to that effect be given to the gentlemen named. The writer strongly protested against what he still believes to have been a very unwise action, and was supported in this view by Messrs. Watters, Lawrence and Jeffrey. Mr. Harrison has since received a Government appointment, which necessitates his leaving the College, so that next session will likely see an entirely new staff in charge of the teaching department.

The teaching department was successful from the beginning and the Council felt encouraged to such an extent that they decided to erect a suitable building.

This was rendered easier by the accumulated savings of past years. Building operations were begun in August, 1885, and in September, 1886, the College was ready for occupation, and was formally opened by the Council on February 3rd, 1887. The original cost of the building was about \$20,000. It is of brick with cut stone facings, and is located opposite the local headquarters of the Department of Education of the Ontario Government in St. James' Square—one of the very best positions in the city of Toronto, and one which is not likely for many years to be closely built up, and so to some extent ensuring healthy surroundings.

The basement floor, only slightly lower than the ground, is taken up by the two chemical laboratories which are now completely fitted up. There are also reading and recreation rooms for the students, lavatories, and accommodation for steam heating apparatus. On the main floor are the museum, already fairly well supplied with specimens, and receiving frequent additions, and the handsomely furnished Council chamber and Registrar's office. The chemical lecture room is also on this floor, and is arranged in amphitheatre style, and is capable of accommodating 90 students, each being provided with a separate desk. The Professor's rooms open out from this lecture room so that preparations for the lectures may be conveniently made. The Pharmaceutical Laboratory occupies the upper story. This has been fitted up with great care, the desks and working tables, which are detached, being furnished with gas, and the drawers and cupboards have a complete Pharmaceutical outfit, comprising Pill Machines, Plaster Iron, Mortars, Ointment Slab, Graduates, etc. The examination hall is quite a large one capable of affording writing accommodation for 100 candidates, each seat having six feet of clear space around it. A good view of all parts of the room is given to the Examiner and Inspector from the raised platform at the end of the hall. The oral examinations are conducted in separate rooms, the candidates passing one at a time into the presence of the several ex-

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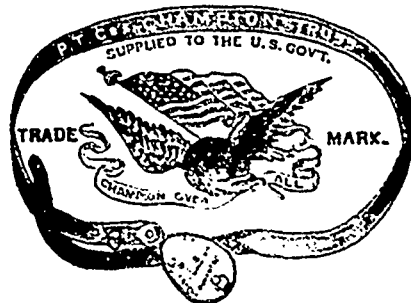
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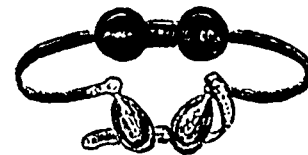
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### Wallace Dawson,

MANUFACTURING CHEMIST, MONTREAL.

aminers. The regular examinations of the licensing body take place in May and December and the candidate is required to secure a minimum of 66 per cent. of the possible marks, and at least 50 per cent. each in Dispensing, Pharmacy and Prescriptions in order to obtain the diploma which entitles him to practice in Ontario. He will also be required to pay to the College an annual fee of \$4.

The course of instruction is divided into junior and senior branches. The junior classes meet from October to December, and the senior classes are held from January until May. Students are expected to give all their time and attention to their studies, the days being fully occupied with either lectures or practical instruction. Each student is required to pass a matriculation examination of which the subjects are English, Geography, Arithmetic (including mensuration), Algebra and Latin. Attendance, for at least the senior term at the College, is made compulsory by the Pharmacy Act of 1889—but even when not so, before the Act of 1889, very few failed to take advantage of the lectures before presenting themselves for examination.

The subjects for the junior course are Chemical Physics, Chemistry as far as the metals, Botany (including Organography), Histology and Physiology, Materia Medica (constituents of drugs, geographical distribution and general classification), Pharmacy (taking up all general processes), and Dispensing, with the construction and reading of prescriptions.

Practical instruction is given in Chemistry, Pharmacy, and Dispensing.

The senior course includes the advanced branches of the preceding course to which microscopy is added.

The faculty consists of the Principal, or Dean, Prof. Shuttleworth, who is also lecturer on Chemistry and Pharmacy; Prof. A. O. Avison, M. D., who takes the subjects of Materia Medica, Botany and Microscopy, and Mr. F. T. Harrison, the demonstrator in Practical Chemistry and Pharmacy.

The officers of the College for the current term are J. A. Clark, of Hamilton, President; John J. Hall, of Woodstock, Vice-President. J. H. Mackenzie, of Toronto, is Chairman of the Educational Committee, and Isaac T. Lewis is Registrar-Treasurer of the College.

The following table showing the names of the officers of the College since its organization may be of interest:—

LIST OF OFFICERS OF THE COLLEGE SINCE 1871.

July 1871—President, Wm. Elliot; Vice-President, Hugh Miller; Treasurer, W. H. Dunspang; Registrar, H. J. Rose; Examiners, E. B. Shuttleworth, W. Saunders, Hugh Miller.

Dec. 1871—President, Benj. Lyman; Vice-President, P. Bickle; Treasurer, Geo. Hodgetts; Registrar, H. J. Rose; Examiners, Wm. Saunders, R. W. Elliot, Fred Brendan.

Aug. 1873—President, Benj. Lyman; Vice-President, Wm. Saunders; Treasurer, Hugh Miller; Registrar, Geo. Hodgetts; Examiners, Hugh Miller, E. B. Shuttleworth, L. W. Yeomans, E. Gregory.

Aug. 1875—President, Benj. Lyman; Vice-President, Neil C. Love; Treasurer, R. A.

Miller; Registrar, Geo. Hodgetts; Examiners, E. B. Shuttleworth, L. W. Yeomans, E. Gregory.

Aug. 1877—President, Wm. Elliot; Vice-President, Wm. Saunders; Treasurer, R. A. Miller; Registrar, Geo. Hodgetts; Examiners, E. B. Shuttleworth, Wm. Saunders, H. J. Rose, L. W. Yeomans.

Aug. 1879—President, Wm. Sanders; Vice-President, N. C. Love; Registrar-Treasurer, Geo. Hodgetts; Examiners, E. B. Shuttleworth, L. W. Yeomans, H. J. Rose, W. Brydon, A. B. Bennett, W. S. Robinson, P. Jackes.

Aug. 1881—President, Hugh Miller; Vice-President, G. J. Waugh; Registrar-Treasurer, Geo. Hodgetts; Examiners, E. B. Shuttleworth, L. W. Yeomans, H. J. Rose, W. Brydon, E. Gregory, W. S. Robinson.

Aug. 1883—President, Neil C. Love; Vice-President, E. Harvey; Registrar-Treasurer, Geo. Hodgetts; Examiners, L. W. Yeomans, E. Gregory, W. S. Robinson, J. E. D'Avignon, W. E. Saunders, A. R. Fraser, C. E. Hodgetts.

Aug. 1885—President, E. Harvey; Vice-President, R. W. Elliot; Registrar-Treasurer, Geo. Hodgetts; Examiners, L. W. Yeomans, E. Gregory, J. E. D'Avignon, W. E. Saunders, A. R. Fraser, J. E. Kennedy.

Aug. 1887—President, R. W. Elliot; Vice-President, W. B. Sanders, Registrar-Treasurer, Geo. Hodgetts; Examiners, L. W. Yeomans, E. Gregory, J. E. D'Avignon, W. E. Sanders, A. R. Fraser, J. E. Kennedy.

Feb. 1888—President, Harry Sherris; Vice-President, John A. Clark; Registrar-Treasurer, I. T. Lewis; Examiners, A. R. Fraser, B. Jackes, D. S. Sager, Frank Holman, A. W. Ball, C. R. Sneath.

Aug. 1888—President, J. A. Clark; Vice-President, W. B. Sanders; Registrar-Treasurer, I. T. Lewis.

Aug. 1889—President, J. A. Clark; Vice-President, John J. Hall; Registrar-Treasurer, I. T. Lewis; Examiners, A. R. Fraser, B. Jackes, C. R. Sneath, Frank Holman, D. S. Sagers, W. Murchison.

The Council is now contemplating important additions to the building and there is no doubt that the College will continue to maintain the high standard and good reputation which it now has, and which has been the means of attracting students from all parts of the Dominion, and even from the neighboring Republic.

### Antiseptic Sponges.

PROF. J. PERRINS.

TAKE a string of fine, new sponges, neither too large nor too small. Commence by beating them with a small hammer, or a piece of wood, in order to knock out the dust and any mineral particles that they may contain. Examine particularly the point where the sponge was attached to the rock; often there are minute grains of sand firmly adherent at this point, and which should be absolutely removed to avoid irritating an already painful wound. It is better to cut this point off with the scissors. Having done this, wash the sponges freely in water, squeeze, and place them in fountain basins, preferably enameled ones, containing the following solutions:—

Hydrochloric acid ..... 10 grams.  
Water ..... 1 litre.

Allow them to remain six hours in this mixture, then wash freely again in water, and steep them for six hours in the following:—

Water ..... 1 litre.  
Permanganate of potash .... 1 gram.

By treatment of a chameleon solution of a beautiful, intense violet hue, they will become more or less rapidly discolored, and after washing freely in water, will retain a brownish shade.

Immerse the sponges next in the following liquid for two hours:

Liquid bisulphite of soda.... 10 grams.  
Water ..... 1 litre.  
Hydrochloric acid ..... 1 gram.

A slight odor of sulphurous acid gas will be perceived. After a little while the sponges lose their brown color, and assume a beautiful whitish yellow shade.

Wash again freely in water and introduce them into a preserving fluid made as follows, where they should be kept until needed:

Water ..... 1 litre.  
Carbolic acid ..... 1 gram.  
Alcohol ..... 5 grams.

Dissolve the carbolic acid in the alcohol and mix together in the aqueous solution.

In order to remove the odor of the carbolic acid, which the lute always associates with hospitals, we may use in place of the above solution the following preserving fluid:—

Thymol..... 1 gram.  
Alcohol..... 4 grams.  
Water ..... 1 litre.

—Gaz. da Gyneec.

### American Camphor.

The possibility of Florida as a future field for the supplying of camphor is deserving of attention. It is even said that the experiments in that line which have thus far been made proves the product to be nearer that of Japan than the Chinese article, the Japanese santon odor being distinctly present in the Florida product. If the hopes of those interested in the growth of camphor trees in Florida are well-founded, and the industry reaches reasonable proportions, it will be of great advantage to the drug and allied businesses of this country, as the consumption of camphor in new manufactures is yearly increasing and in a formidable ratio. At present the government of Japan really controls the product of the world and permits the regulation of the supply in the manner best suited to increase the revenues of the merchants in whose hands it places this traffic. China is no important competitor because its supply is both comparatively small and inferior. To be sure, Japan with its cheap labor, might be able to prepare it in the crude state it reaches this country at much less than the American crude could be produced, but then there is the expense of ocean freight to more or less offset that advantage. In any event the manufacture of the refined article from the product of American trees would be of great advantage to home industries, and particularly so in preventing the periodic tightness of the market due to the withholding of shipments from Japan when better prices are thought advisable by the merchants of that enterprising little empire.—*Pain, Oil, and Drug Review.*

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YOU WILL FIND FAIRCHILD'S GLYCERINUM PEPTICUM THE BEST ADAPTED FOR THIS PURPOSE.

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Specify **PLANTEN'S CAPSULES** on all orders.

Send for Samples and Formula Lists. Sold by all Druggists.



### Montreal Notes.

The semi-annual (Minor and Major) examinations take place in Montreal on Tuesday, April 14th, and following days, and the preliminary examinations will be held in Montreal and Quebec on April 2nd.

Mr. Parker assumes the proprietorship of Mr. Coverton's branch store, on the upper part of Main St., on May 1st. Branch stores are difficult things to manage and Mr. Coverton may be congratulated on having made such a satisfactory arrangement to all parties. Mr. Parker has been in Mr. Coverton's service a number of years.

A writer on the Montreal *Pharmaceutical Journal* asks "Why are not chemists richer?" Most chemists know the reason pretty well. Expenses have been going up rapidly this last 10 years, notably rent, taxes and clerk hire, while the profits have gradually been getting smaller, to say nothing of the direct competition of wholesale drug houses.

A local journal speaks rather harshly of the criminal way druggists dispense deadly drugs, whereupon "Chondrous Crispus" calls upon the President of the Pharmaceutical Association to oblige the editor of the said local journal to retract such a damaging statement. It may be that some druggists deserve the strictures of the journal in question; let us hope not.

To the regret of a great many the Pharmacy Clerks' Association does not seem to be as vigorous as was expected. It seems a pity that the students do not avail themselves of the Association, to show their ability by reading papers on subjects connected with the professional part of their business.

A very interesting case is before the Superior Court this morning (March 14), Hon. Judge DeLorimier presiding—Tucker versus the Corporation of Montreal. Mr. Tucker is a Herbalist (what is known as an Indian Herb Doctor). He has a number of specialties, such as Green Mountain Balm, Worm Chocolates, &c., &c. When St. Lawrence street was expropriated and widened he was turned out of his stand, where he was undoubtedly doing a good business. The Commissioners only adjudged him a small indemnity and he appeals, probably with reason, against it. The prevailing opinion is that many of the awards of the Corporation were notoriously unjust, and Mr. Tucker has a good deal of public sympathy with him.

### Adulteration of White Lead.

If any one has a suspicion that white lead is adulterated, buy a pound or two of the substance and place it in a ladle and set it on fire. After it is completely burned there will be a quantity of metallic lead in the bottom of the ladle. After the ladle is washed and dried, it may be weighed; should it weigh exactly as much as the whitelead before being burned,

then the whitelead is pure. Should a less weight of lead be found, there is an adulteration, the per cent. of which may be obtained by dividing the loss of weight by the weight of the white lead before being burned.—*North Western Mechanic.*

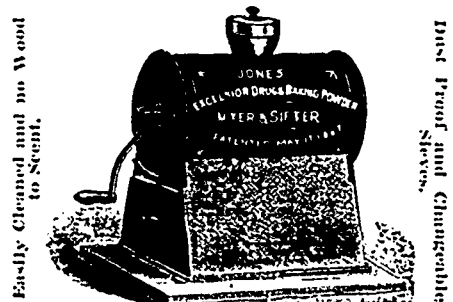
**ELDER BARK AS A DIURETIC.**—G. Le-moine, of Lille, recommends the inner white bark of the European elder, *Sambucus nigra*, as a valuable diuretic, a handful of the fresh material being boiled in a liter of water, and the decoction administered during the day; it has also a laxative action.

The best protection against other people's ill manners are our own good manners.

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Two Sieves, 40 and 60 mesh, with each Mixer, and valuable formulas for Baking Powder, Tooth Powder, Dyspepsia Powder, &c. Send for circular to sole Manufacturer and Inventor. AGENTS WANTED.

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Spirits Aethers Nitrosi Pur.  
Spirits Ammonia Arom. distilled.  
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Chlorodyne, from a well tried formula.

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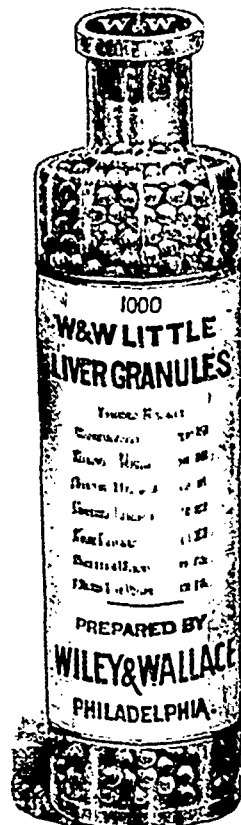
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### Notes on Lanoline in Powder Form.

BY J. A. MARTIN, DENVER—READ AT A MEETING OF THE DENVER PHARMACEUTICAL ASSOCIATION.

In reply to the query of this association, I to-night present my report on lanoline powder, a preparation used as a dusting or sprinkling powder in various affections of the skin.

The practicability of preparing a powder from lanoline would on first consideration seem doubtful, but the subject has already received some attention.

According to Quaglio, (*Nat. Drug.*, Vol. XVII., p. 4.) lanoline powder is prepared by forming a solution of lanoline with ether or chloroform, mixing the solution with carbonate of magnesia and drying by evaporation at the ordinary temperature; the product is then finely powdered and mixed with an equal weight of powdered starch. If required, the starch can be replaced by oxide of zinc, subnitrate of bismuth or powdered tale.

In the process of manufacture a large amount of water is incorporated with lanoline, varying from 23 to 28 per cent. Now to obtain a product of uniform quality, it is, of course, necessary to get rid of this combined water. Melting at ordinary temperature will not separate it; heated to 230° F, in an evaporating dish, and kept at this temperature for half an hour, failed to expel the water entirely, and fused chloride of calcium was used to remove all traces of water. Prolonged exposure to a high temperature will cause discoloration and develop a disagreeable odor. This method, therefore, of rendering the lanoline anhydrous cannot be recommended. A more satisfactory dry lanoline is obtained by mixing melted lanoline with an equal weight of chloroform or ether, setting the mixture aside until two distinct layers have formed; in the former the water rises to the top, and in the latter it sinks to the bottom. The water can now readily be removed by means of a separating funnel, or in the chloroform mixture with a syphon. In this manner also, the percentage of water present can be easily calculated by ascertaining the weight of residue after evaporating the ether or chloroform. The three specimens on the table labelled anhydrous lanoline, Nos. 1, 2 and 3 were prepared by the three respective methods mentioned.

With an anhydrous lanoline the lanoline powder can now easily be prepared of uniform composition. Dehydrated lanoline is dissolved in two parts of ether, the solution rubbed up with sufficient carbonate of magnesia to equal three times the weight of dry lanoline used, exposed to the ordinary temperature until no traces of ether remain and reduced to fine powder. We thus obtain a dry powder containing 25 per cent. of dehydrated lanoline. Of course, any desirable addition can be made and the percentage of lanoline reduced. The specimens on the tables will show powders of different combinations, containing varying amounts of dry

lanoline. The one in bottle labeled Lanoline Dusting Powder E. D. is made according to E. Dieterich's formula, published in the *Amer. Journ. of Pharmacy*, 1890, p. 248, from *Pharm Centralhalle*, 1890, p. 158:

"5.0 anhydrous lanoline are dissolved in 20.0 ether and rubbed up with 45.0 wheat starch, by exposure the ether is allowed to evaporate; .20 powdered boric acid and 50.0 powdered tale are mixed with the lanoline starch powder and flavored by the addition of one drop each oil wintergreen and oleo-balsamic mixture."

The percentage of lanoline in this preparation is less than 5 per cent., and certainly small to deserve the name lanoline powder. You will observe the powder has the appearance of having been wetted or dampened and not at all suitable for a dusting powder. This is owing to the absence of a proper absorbing material. The use of carbonate of magnesia before mixing the lanoline with powdered starch, as recommended by Quaglio, must be considered an improvement, as it permits the admixture of a larger amount of dry lanoline.

As shown by the specimen on the table, as much as 33 per cent. of dry lanoline can be incorporated with carbonate of magnesia, the mixture still retaining the powder form.—*Rocky Mountain Druggist.*

### Prescription Scales.

All prescription departments should be furnished with at least two pairs of prescription scales, one to be kept for weighing small quantities (never over twenty grains), and the other for larger quantities up to the half-ounce.

By keeping a scale for small quantities, its delicacy will be retained for a very much longer time than if used for all weights, heavy and light.

In too many pharmacies can be seen prescription scales that will not turn for a quarter of a grain; this is due to dull bearing points, too large a weight having been used on some occasion, or to rust or dirt being allowed to collect on them.

The prescription scale should be cleaned with water, and if care is exercised nothing else is needed. They should always be enclosed in a case, protected from the air and dust. Always see that your scales balance before attempting to weigh.

It is well to place pieces of paper of even weight on the pans, for by this means you avoid the danger of soiling the latter, and the substance weighed can be at once carried to where you wish to deposit it.

Keep the case door closed when the scale is not in use; put away the weights after using them; and when handling weights, use a little pair of nippers.

One thing, often neglected, is keeping the drawer containing the weights closed, especially when conveying anything on a spatula from a bottle to the scale pan; it is a very common, disagreeable sight to find this drawer full of all sorts of drugs that have dropped in at different times to destroy the accuracy of weights lying in the dirt.—*Bulletin of Pharmacy.*

## HUMPHREY'S

SPECIFICS. VETERINARY SPECIFICS.

SPECIAL PRESCRIPTIONS.

WITCH HAZEL OIL.

MARVEL OF HEALING.

Stocked by all wholesale druggists in Canada and delivered

DUTY FREE.

Write for catalogue, photographs of counter show cases, terms and inducements.

Humphreys' Medicine Company

NOS. 111 AND 113 WILLIAM ST., AND NOS. 61, 63 AND 65 JOHN ST., NEW YORK.

Piso's Remedy for Catarrh is the Best, Easiest to Use, and Cheapest.

**CATARRH**

Sold by druggists or sent by mail. 50c. E. T. Hazeltine, Warren, Pa.

## This Beats All.

\$1 00 FOR NOTHING.

Are you selling RUDY'S PILE SUPPOSITORIES? If so, write to me at once and some paying advertising matter will be sent to you FREE OF CHARGE. If you do not handle them and want to start in right now, write me at once, and send me the name of your jobbing house, and I will send to you in their care, FREE OF ALL CHARGES, two (2) boxes of RUDY'S PILE SUPPOSITORIES, which retail at 50 cents each, with FREE SAMPLES, a neat metal sign, etc.

MARTIN RUDY, Lancaster, Pa.

## DR. H. P. WILKINS' LIVER POWDERS

Promote Cheerfulness and Rest.

AN EXCELLENT REMEDY FOR Sick Headache, Dyspepsia, Constipation, Sour Stomach, Neuralgia, Nausea, Vomiting, Loss of Sleep, Drowsiness, etc.

PRICE, 25 CENTS PER BOX.

Prepared by DR. H. P. WILKINS, Toronto.

Wholesale by ELLIOTT & CO., Toronto, Ont.

# To the Retail Druggists and Chemists of Canada.

GENTLEMEN :

Owing to the rapidly increasing demand for my Preparations and the numerous orders received from Retail Druggists, I have concluded to place the Medicines in the hands of the Wholesale Druggists of Canada.

The following Agents have thus far been appointed :

## DRUGGISTS -- WHOLESALE.

### TORONTO, ONT.

Lyman Bros. & Co.  
Elliott & Co.  
Northrop & Lyman.  
T. Milburn & Co.  
Lyman, Knox & Co.

### HALIFAX, NOVA SCOTIA.

Brown & Webb.  
F. C. Simson & Co.  
Forsythe, Sutcliffe & Co.

### LONDON, ONT.

J. A. Kennedy & Co.  
The London Drug Co.

### HAMILTON, ONT.

J. Winer & Co.  
A. Wilson & Co.

### MONTREAL, QUE.

Lyman, Sons & Co.  
Evans & Sons.  
Kerry, Watson & Co.  
Lyman, Knox & Co.

### BELLEVILLE, ONT.

L. W. Yeomans.

### WINNIPEG, MAN.

Martin, Rosser & Co.

### ST. JOHN, N. B.

S. B. Barker & Sons.

### OTTAWA, ONT.

H. F. McCarthy.

### VICTORIA, B. C.

Langley & Co.

### GUELPH, ONT.

A. B. Petrie.

### MY PREPARATIONS :

**Slocum's Psychine,**  
**Oxygenized Emulsion of Pure Cod Liver Oil,**  
**Coltsfoot Expectorant,** **Regulative Pills,**  
**Magnetic Medicated Plasters,**

*Can be purchased through the above Houses at List Prices. Price List and Beautiful Lithographs supplied on application.*

**T. A. SLOCUM, M. C.,**

186 West Adelaide Street, TORONTO, ONT.

## CANADIAN DRUGGIST.

WM. J. DYAS, EDITOR AND PUBLISHER.

MARCH 15th, 1891.

Look at our proposition for free advertising on this page.

\* \*

If you are overstocked with any particular line of goods let your brother druggists know it through the columns of this journal. Perhaps he may want just what you are so anxious to get rid of.

\* \*

THE CANADIAN DRUGGIST specially requests that, when corresponding with advertisers, special mention will be made of the fact that the advertisement was seen in these columns. This should be done in justice alike to the advertiser and the publisher.

\* \*

We must thank our readers for the true appreciation of this journal as evinced by the many laudatory letters received, some of which were sent for publication, but which lack of space prevents. It is most gratifying at all times to be assured that your endeavors are appreciated, and none the less so in the case of the editor of a trade journal. That we may continue to merit this approbation will be our constant endeavor.

\* \*

A good way—to lose customers: Sit in an easy chair in your store, reading a paper; and when persons come in to buy, either keep on reading, or look over the edge of your paper and growl out, "What do you want?" On no account give the least hint that you are glad to see them, or would like to have them come again. Don't let them suspect for an instant that you are anxious to serve them. *Exchange.*

\* \*

SOMETIME ago, an amusing paragraph went the rounds of the press, telling of the experience of a foreigner in trying to get hold of the dictionary equivalent of a common American word—"that'lldo." In some places the expression is entirely insignificant; in others it indicates a pernicious habit. Too frequently it is the latter. When a man turns out a bit of work which he knows to be inferior, with the remark "that'lldo," he runs the risk of injuring his reputation, and of cultivating the habit of "slouely" performance. This no one, whether employer or employee, can afford. It is always worth while to do our best, if what we attempt is worth doing at all.

## Pharmacists by Act of Parliament.

We notice by the Ontario Gazette that J. A. Brown, of Tottenham, and Reuben Arthur Mason, of Markham, are applying to the Legislature for special Acts to empower them to practice pharmacy in this Province. We trust that all such efforts

will prove abortive, such special legislation only tends to weaken the acknowledged usefulness of our Pharmacy Act, and establishes an unfortunate precedent. The College is open to these gentlemen as well as to all and there should be no special privileges nor underground way of obtaining what others have to spend time and money to secure.

## Free Advertising.

If you want to—

BUY A DRUG BUSINESS,  
SELL A DRUG BUSINESS,  
OBTAIN A SITUATION,  
OBTAIN HELP,  
EXCHANGE UNSALEABLE GOODS,

You may advertise these facts FREE in the columns of the CANADIAN DRUGGIST.

## Publications.

We are in receipt of a neatly bound copy of the proceedings of the twelfth annual meeting of the Ohio State Pharmaceutical Association to which is added a copy of the By-Laws and also the Act of Incorporation of the Association.

The American Art Printer for February announces a change of editor. Amongst the engravings in this number are "Yorkton's Editorial Carnival," "Yes or No," and a life-like group of the "Trustees of the Childs-Drexel Home for Union Printers;" as usual, the letter press is *par excellence*.

## Answers to Queries.

"Pharmacist," Manitoba—(1) They are applied with a mucilage of gum Arabic and, after being placed in position, a sizing of Isinglass or gum Arabic is applied, this, when dry and hard, is varnished with damar or other white spirit varnish; (2) Write Price Bros. Co., 125 Worth St., New York City; (3) From eight to twelve dollars per week here.

"A. C. S."—The chloroform is insoluble in the glycerine. Dissolve the oleoresin and oil in 4 or 6 drachms of alcohol and you will have a satisfactory result.

## Homœopathy in Russia.

Homœopathy is said to be spreading in Russia, especially in the upper social strata. Societies for the propagation of the Hahnemannian doctrines have recently been established at Tschernigow, Odessa, and Warsaw. As has been noticed in other countries, the clergy are conspicuous among the supporters of the great medical heresy, and in Russia the military mind seems also to have an elective affinity for globules and infinitesimal dilutions. Thus, at Tschernigow, one of the founders of the new Society is the Bishop (Benjamin). At Odessa, among those who have signed the draft statutes of the Society are the Archbishop of Cherson (Nikanor), Generals Count Rostowzew, Roop, Teplow, and Strandmann, and the Mayor of the city, M. Marashi, with his deputy, M. Ligin.

## Iodoform Substitutes.

At the last meeting of the Society of Therapeutics, Pharmacist Yvon said, after numerous trials for devising an iodoform substitute, odorless and easily prepared, he fixes upon cinchonine iodosulphate, a combination obtained when the alkaloid sulphate is thrown down with Bouehardat's reagent—that is, iodised potassium iodide. Cinchonine was selected owing to its comparatively low price. As to the iodine combination, it is one of a class well known since Herapath's remarkable works. The iodosulphate may be obtained as follows:—

	(1.)	
Sulphate of cinchonine..	1	gramme.
Water .....	80	grammes.
Dissolve.		
	(2.)	
Iodine.....	1	gramme.
Potassium iodide .....	10	grammes.
Water .....	1000	grammes.

The second solution is to be added to the first, but an excess must be carefully avoided. The chocolate-brown precipitate produced is to be collected on a filter, washed until it contains no free iodine, and lastly dried in open air. The result is an odorless, light, impalpable powder, insoluble in water, soluble in alcohol and ether. It contains 50 per cent. of iodine, and, so far, has proved very satisfactory in clinical practice. As an antiseptic, it is in no way inferior to iodoform. From a pharmaceutical standpoint, it presents the advantage of being easily and inexpensively prepared.—*Chemist and Druggist.*

## Origin of Titles.

Ergot is a title of French origin; Gelsemium from an Italian word; jalap from Mexican; manna and myrrha, Hebrew; camphora, Chinese; catechu, Japanese; cusso, Abyssinian; bucha, Hottentot; senna, Senaar; cambogia, Cambodian; benzoe, Siamese; kino, Malabar; cajuput, Moluccan; calumba, Mozambique; quassia, Surinamese; tamarindus, East Indian; guaiacum, West Indian; senega is named after the Seneca Indians of North America; cuprum, after the island of Cyprus; magnesia after a town in Asia Minor; gentiana after King Gentius of Myria; kramerea after Herr Kramer and nicotiana after Monsieur Jean Nicot.—*Prof. Oscar Oldberg on Pharmaceutical Nomenclature.*

## A Versatile Practitioner.

The following very amusing advertisement, says the *Medical Press*, appears in the columns of a Westmeath journal:—

MICHAEL KENNA, of Friarstown Parish, of Meedin, 4 miles from Tyrrellspass, 4 from Rochford Bridge, 3 from Castletown-Geoghegan. I propose to cure by Herbs—Water Gravel, Kidney Gravel, Rheumatism, Blast, Piles inwardly and outwardly, Falling Sickness, any person wishes to have the Blight stopped on their potatoes, the Tooth Ache, soft and hard corns. If you wish to have your hens laying in winter apply to me.

# FELS & CO.S American General Toilet, Transparent, Shaving and Medicinal **SOAPS**

Made by FELS & CO., PHILADELPHIA.

**THESE SOAPS** are peculiarly adapted to the wants of the **Drug Trade**, being beautiful in designs, of excellent quality and equal to any **TOILET SOAPS** produced, at much lower prices, (quality considered). We take pleasure in commending them to the general trade as of best value, and believe a first sample order for them will bring continued duplicates.

THE HEMMING BROS. CO., Limited,  
TORONTO.

## Circular to the Trade.

Having recently purchased from Brown Bros. & Co. the Trade-Marks, Patent Rights, and business of

### PUTTNER'S EMULSION,

We beg to solicit your interest in keeping this old established and valuable remedy before the public.

PUTTNER'S EMULSION is the oldest of the many emulsions now offered to the trade, and maintains its lead against them all.

It is a Native Preparation. It pays the dealer a good price. It is a good seller, and therefore safe to stock with, and it is undeniably the best for the consumer, for the following among other reasons:—

1. It is the richest in oil.
2. The oil is pancreatized, that is, partially digested, and thus better suited to weak stomachs.
3. The bottles are fully one third larger than others sold at the same price—a point of great interest to the patient.

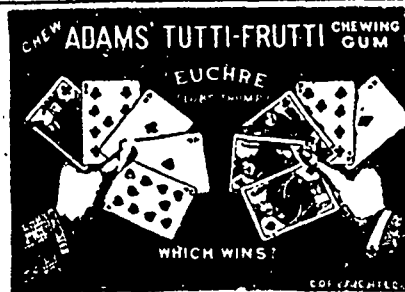
The Emulsion may be had of any Jobber or Wholesale Druggist in the Dominion, at \$4.00 per dozen, \$3.75 by three dozen, or \$42.00 per gross.

Soliciting the favour of your orders to your Wholesale House, we are

Yours respectfully,

**BROWN & WEBB,**  
HALIFAX, N. S.

February, 1891.

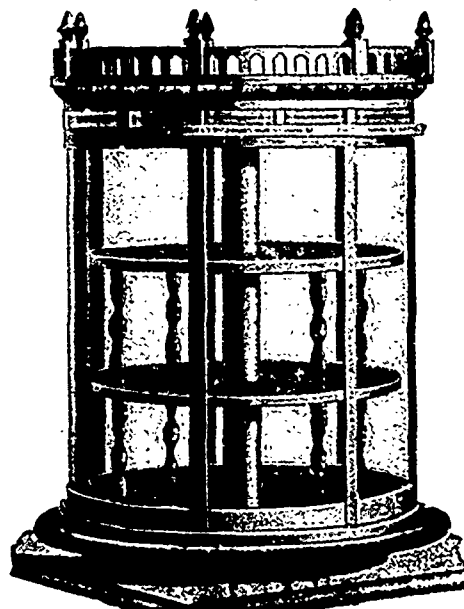


## ADAMS & SONS TUTTI-FRUTTI CHEWING GUM.

It is the fastest & best selling article the Drug Trade handles to-day.

SEND TO ADAMS & SONS, 23 CHURCH ST., TORONTO, ONT  
For beautiful advertising matter.

## Goddard's Revolving Book and Show Case.



Patented May 14, 1889, and other Patents applied for.

It is round, 42 inches high, 31 inches in diameter. The bent glass are double strength French, 12x25 inches. The inside revolves by the ring at bottom upon anti-friction, cone-shaped rollers.

It turns as easily when filled as empty, no oil required. The frame holding the glass is stationary.

### ELEGANTLY FINISHED IN Antique Oak Veneering.

Price \$28.00.

For Physicians, Dentists, Oculists, Confectioners, Jewelers, Filing Case, &c., they are arranged to suit.

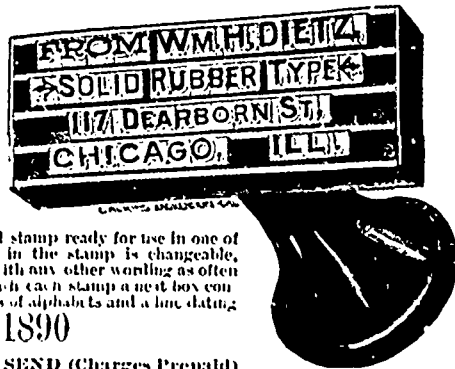
SEND FOR CIRCULAR.

CURTIS GODDARD, ALLIANCE, OHIO.

# You. Have Found It.

## A SINGLE RUBBER STAMP

That does the Work of a Dozen.



The cut shows our hand stamp ready for use in one of many ways. The lettering in the stamp is changeable, and can be easily replaced with any other wording as often as desired. We furnish with each stamp a neat box containing several complete sets of alphabets and a line dating stamp, thus: **JUN 15 1890**

**FOR \$3.00 WE WILL SEND (Charges Prepaid)**

This Outfit No. 433, from which you can adjust at will various stamps for printing letter heads, business cards, envelopes, labels, price marks, tags, receipts, etc. Stamp the date on all orders and letters you receive and file away. This stamp will do the work of a small printing press. It consists of a Four-line and One-line Stamp, a Self-Inking Pad, a pair of Tweezers for adjusting the type, and a box of Rubber Letters containing 255 separate pieces, consisting of Letters, Figures, Points, Ornaments, Spaces, etc., also the words "Return in 10 days to," "From," "For Sale by," and the twelve months and dates in solid blocks of rubber. The following is specimen of type furnished:

**AAAaaaa BBBbbbb CCCcccc  
1122334455667788990\$. , , , , --"**

❖ ❖ ❖ ❖ FROM ❖ ❖ ❖ ❖

**RETURN IN 10 DAYS TO FOR SALE BY**

We are willing to send this outfit No. 433 on approval, and if not found satisfactory, money will be refunded. Mention this paper. Catalogue free.

### **WM. H. DIETZ,**

117 Dearborn St., CHICAGO.

# Druggists of Canada.

*We wish to again remind you to stock up with*

## DAVIS' FLY FELTS

*AND BE READY FOR EARLY CALLS.*

DAVIS' FLY FELTS was immensely popular last year. Sales exceeded the year previous by over 90 per cent. Sell an article that is guaranteed to give satisfaction and is satisfactory alike to all who buy it.

*Buy in 3 box lots. Profit over 100 per cent.*

We are sending out, till supply is exhausted, an Advertising Card in Colors, 14 x 20 inches, with each box of Felts.

Place your orders early with your wholesale dealer. If they cannot supply you, drop us a card and we will see you are supplied.

Felts packed 100 packages in wooden case. Retail **5c.** each.

### **Powell & Davis Co.,**

CHATHAM, ONT.

The following Wholesale Firms will be pleased to supply **FELTS** in any quantities:

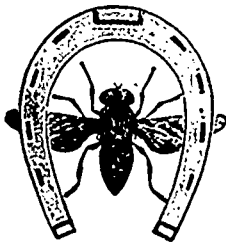
MONTREAL—Lyman, Sons & Co., Kenneth Campbell & Co., Brayley, Sons & Co.

TORONTO—Northrop & Lyman Co., T. Milburn & Co., Elliot & Co., Lyman Bros. & Co., Evans & Sons, Hemming Bros. & Co., Smith & McGlashan Co.

HAMILTON—J. Winer & Co.

LONDON—London Drug Co., J. A. Kennedy & Co., McCallum & Co.

HALIFAX—Brown & Webb.



## Fly Poison!

### BRIGGS'

# FLY POISON MATS

The Greatest Destroyer of Flies and Insects known.

Order from any Wholesale Druggist or Patent Medicine Dealer, or direct from the manufacturers.

### **G. C. BRIGGS & SONS,**

HAMILTON, ONT.

Manufacturers of the Celebrated "SHOO-FLY" Fly Poison.

# DON'T FAIL TO READ THIS.

100% profit on the Best Headache Remedy on the market.

## Brown's Alpha Wafers

AGENTS WANTED IN EVERY TOWN.

These Wafers are the most attractive article for counter display ever offered in this line. With first order for one-half gross, we print buyers name on 500 samples, put up in neat envelopes, containing each a Wafer. If they are properly distributed they will create a large demand for the goods. We are continually receiving letters from the trade wherever our Wafers are introduced in this manner, reporting larger sales for them than all other HEADACHE preparations combined.

Price—One Gross, - - - \$18.00 delivered.  
Half Gross, - - - 9.50 "  
One Dozen, - - - 1.75 net.

Address all Orders,

### **W. J. BROWN MEDICINE CO.,**

110 Woodward Avenue,

Branch Laboratory—Windsor, Ont.

DETROIT, MI' H.

**IMPERIAL GRANUM**

THE SALVATOR FOR INVALIDS AND THE AGED

REGISTERED JUNE 5, 1877

**MEDICINAL FOOD**

**SOLD BY DRUGGISTS JOHN CARLE & SONS NEW YORK**

PHILIPPS PRINTING CO BOSTON

*This has become one of the most popular and best appreciated articles of diet for the last comers into the household. They thrive on it, get fat, make muscle, and have plenty of lung capacity, though they generally smile rather than bawl, especially when IMPERIAL GRANUM is placed in their sight. IT IS REALLY A CAPITAL FOOD, one that can be commended as furnishing the best principles for infant diet. It is called for not only for babes, but IT HAS A VERY LARGE SALE AS A FOOD FOR INVALIDS, and we learn from its proprietors that the sales are not only increasing constantly, but those who use it SEEM BETTER PLEASED THAN EVER with its results. — New York Pharmaceutical Record.*



## The Manipulation of Gum Acacia to Form Permanent Emulsions.

BY W. H. WEARS.

Gum acacia has long been known as an emulsifying agent, and many methods have been prescribed for its manipulation in forming emulsions, all of which are known too well to require an explanation.

As an emulsifying agent, it is acknowledged by all to be a success, but unsatisfactory, because its emulsions do not remain permanent; the emulsified oil separating at an early date from the water used in its preparation. This fact, independent of the price of gum acacia, caused leading pharmacists to seek for other agents whose products would remain permanent; the prominent ones discovered being gum tragacanth and chondrous crispas, which have been advocated from time to time by various writers through the pharmaceutical press as preferable to gum acacia. Their principal features being: formation of permanent emulsions unaffected by iron.

My experience with them, and others, has demonstrated that they are inferior to gum acacia, and, strictly speaking, do not emulsify, as I will endeavor to show later. And that the non-permanence of emulsions formed with gum acacia is due to the construction and manipulation of their formula.

An emulsion is a product produced by mechanical manipulation, from an oil that is almost, if not entirely, insoluble, in aqueous menstrua by the action of its emulsifying agent, which, by its solubility in water and inherent tenacity, first exerts its tenacious effect atom to atom of oil, which is intensified by the friction produced by continued trituration, breaking down the globules of pure oil and stretching them into the realm of solution, termed in pharmacy, emulsion. It is evident that the success of the product is dependent upon the tenacity and solubility of its agent in water.

In gum acacia we have an agent soluble in twice its weight of water, of very great tenacity; being dense in its nature it does not increase the consistency of the product beyond that of a thick liquid when used in its greatest proportion. With it I have been able to form a permanent emulsion by its use in the proper proportion and manipulation. That others may have the benefit of the result I have written this paper; its formula and manipulation being as follows: The excess of water usually separating in old formulas demonstrated the necessity of its being utilized by an increase in the amount of gum acacia and oil, forming a larger per cent. of emulsified oil per volume. This was tried with success, by the following formula and manipulations: using cod-liver oil, as being the oil most difficult to emulsify: Oil 48 parts, gum acacia 24 parts, sacch. alba 24 parts and water 36 parts by weight. Sacch. alba fortifies strength of acacia. This will furnish a product yield-

ing 50 per cent. oil by volume; same formula applying to all oils.

Manipulations: Rub sugar and gum acacia up with just enough water to form a heavy tenacious paste, gradually adding the oil in fractional proportions, triturating vigorously then regularly until all the oil is incorporated, adding water at such intervals as the tenacity of emulsion seems to weaken, which is due to the oil being in great excess; always reserving 10 per cent. of water for last addition. The emulsion will not be formed at this stage, as will be the case of regular formulas and manipulations.

The manipulation consisting after this in allowing it to stand in the mortar long enough to allow gum acacia and emulsified oil to collect "en masse" again after each trituration, so that the gum and emulsified oil may renew the tenacity of their atoms, thereby enabling them to incorporate free oil each time, and stretching the emulsified oil into closer union. This process is slower, owing to the small amount of water used, especially where large quantities are prepared, but the product doubly repays for excess time in point of pharmaceutical elegance.

The emulsion when formed exhibits the united tenacity of its elements, by cracking with a loud noise when triturated, and as it runs from the pestle stretching itself in to a thread. It is of a beautiful cream-white color, and of semi-liquid consistency, and remains permanent. Strictly speaking, chondrous crispas and gum tragacanth are insoluble in water, and by virtue of their swelling properties simply occupy space instead of entering into solution, forming a jelly in a comparatively small portion of water, the inherent capacity of their cells being weak. Therefore, it cannot be expected that these elements could carry an associate into an element that they do not enter themselves. Oils emulsified by them form emulsions which are of gelatinous consistency and poor tenacity. The oil, strictly speaking, is simply forced into intercellular space and retained by minute tenacity of their swollen cells and their compact jelly formation, and are not emulsified.

**ADULTERATION OF PHENACETIN.**—Phenacetin is said to be adulterated with anti-febrin sometimes. If that be so one can easily detect it by boiling 5 grs. of the sample in a drachm of water; cool and filter. Boil the filtrate with a little nitrate of potash and dilute nitric acid, then add a few drops of solution of nitrate or mercury, and boil again. If no red coloration appears anti-febrin is either absent, or present in less proportion than 2 per cent.

**MITES** in flaxseed meal and ground mustard multiply rapidly, and render the meal unfit for use. H. David (*Bulletin Commerce*) recommends the seeds of both, flax and mustard, be ground fresh for use. The mite is a species of acaridae, and is known as *Tyroglyphus siro*. It is also met with upon cheese in company with another species,

## Major's - Cement.



**MAJOR'S CEMENT**, for repairing China, Glassware, Furniture, Meerschaum, Vases, Books, Tipping Billiard Cues, etc. 15 and 25 cents.

**MAJOR'S LEATHER CEMENT** for repairing Boots and Shoes. 15 and 20c.

**MAJOR'S RUBBER CEMENT** for repairing all kinds of soft rubber goods. 15 cents.

**MAJOR'S BEST LIQUID GLUE** for repairing wood, etc., always ready for use. 10 cents.

Large and small Lithograph Cards in fine colors, sent on application to all dealers who handles my goods.

Advertising matter sent by mail on application. I also furnish a hand some sign for inside and a stand, 3 ft. 6 in., for outside use, with a 50 lb. weight, and a thermometer 4x24 inches, first-class in every respect. Also a Portrait Sign for Show Case, 9 x 12, with glass frame and a strong easel. 22¢ Sent for terms.

A. MAJOR, 232 William Street, New York City.  
KERRY, WATSON & CO., Montreal, P.Q.  
and the LONDON DRUG CO., London, Ont.

## - CIGARS. -

OUR LEADING LINES :

**10c.**

"LA MAYA,"

"LA FAMEUSE,"

"HAVANA PEARL,"

**5c.**

"FASCINATOR,"

"PERFECTION,"

"BABY PEARL,"

These lines always have, and are giving perfect satisfaction. No stock complete without them.

Prices, quality considered, below any factory in Canada. A \$35 Cigar for \$30. A \$75 Cigar for \$60.

We hope, by straight forward dealing, giving best value, to merit a continuance of our rapidly increasing patronage of the Drug Trade of Canada.

Please mention this paper when ordering.

**PAYNE BROS. & MACFARLANE,**  
GRANBY, QUE.



LIFE,  
GROWTH  
—AND—  
BEAUTY  
FOR THE HAIR.

# LUBY'S PARISIAN HAIR RENEWER

AS a dressing for Ladies' and Gentlemen's Hair, it has no equal.

Strengthens weak hair,  
Checks its falling out,  
Allays irritation of the scalp,  
Removes all traces of Dandruff,  
Restores gray and faded hair,  
Keeps the head clean and cool,

—AND—  
IS NOT A DYE.

Sold by all Chemists and Perfumers.  
Large Bottles, 50 Cents each.

General Agent for the Dominion,  
**R. J. DEVINS,**  
No. 4, St. James St., Court House Square,  
MONTREAL.

## DID YOU HEAR ABOUT —THIS?—



### Pennyroyal Wafers

Have an Imprint Label on Both Box and Wrapper in French and English, with our Signature in RED across both. Look for this hereafter.

### NOT A DRUGGIST

In Canada or United States ever was overstocked with our goods when buying of us, but several got hit with counterfeit. We cannot advertise counterfeit goods. But the original and genuine we will advertise, and sell, too.

We want one Druggist in each town or city for Local Agent. Will advertise him as local dealer. Make terms with him in which his profit is assured.

If you want to get good profits at no expense to your self, write to us, tell us something about your location and class of trade. We ship from Windsor, Ontario. No Duty to pay.

Address to Main Office,

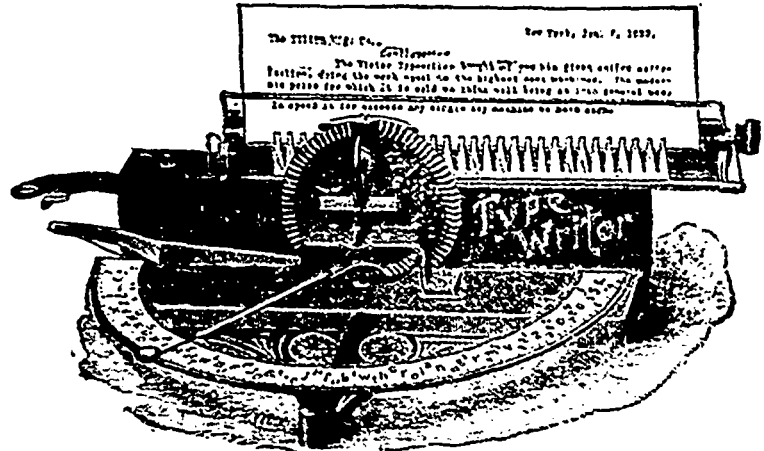
**Eureka Chemical Co.,**  
10 & 12 Michigan Ave.,  
DETROIT, MICH.



This preparation is being extensively advertised. Sales steadily increase wherever introduced. Trade supplied by Wholesale Drug Houses. You will largely increase your sales by keeping our FREE SAMPLES to give your customers. Furnished free by application to

**D. DENSMORE & CO.,** 317 CHURCH STREET, TORONTO, - ONTARIO.

EVERY  
DRUGGIST  
SHOULD  
HAVE ONE OF  
THESE  
MACHINES.



Your writing is readable. Mistakes prevented in writing your wholesaler. They do the work like the larger machines. The Canadian Druggist has one. "Can we send you one?"

**GEORGE BENGOUGH, Agent.**

4 Adelaide St. West, Toronto, Ont.  
Corner Yonge.

Agents wanted in every town and city in Dominion.

## "How To Do Business,"

OR  
THE SECRET OF SUCCESS IN RETAIL MERCHANDISING.  
By G. D. N. McLean.

The Most Comprehensive, Practical and Valuable Treatise on Business, and How to Successfully Do It, Ever Published.

A text book of practical hints, rules and examples of such rare value that every one, no matter how old and experienced, cannot but derive absolute and positive value from its teachings—while to the young novice it is a hand-book and treasure of indispensable value.

Contains 28 Grand Chapters on the Following Subjects:

How to Do Business—Choosing a Business or Profession—The Ebb and Flow of Business—Purchasing Stock—Factors of Success—How to Obtain Credit—Marking Goods—Advantages of Advertising—Employing Clerks—Selling Goods—Exclusive Cash Sales—Selling Goods on Credit—Cash and Credit Combined—Cause of Success or Failure—Prompt Settlement—Depreciation of Goods—Losses in Business, which Occur to the Merchant—Expenses and Accounts—Partnership and its Advantages—Business and Social Intercourse—Proper Investment of Profits—Insolvency, its cause and Prevention—Qualifications Necessary to Insure Success—Mercantile Examples—Expenses of Doing Business—Variety of Business Terms—Preparation for Business—Secure the Confidence of Customers—Valuable Hints, Comprising Short Chapters and Paragraphs on Business Methods, Systems, Rules, Etc.

Postpaid on Receipt of \$2.00.

**SPECIAL OFFER**—We will send you, prepaid, this book—as valuable as if specially written for your business—for \$1.50. For sale at this office.

## GIBBONS' Toothache Gum

PREPARED BY

**J. A. GIBBONS & CO.,** Toronto and Buffalo.

SOLD BY ALL WHOLESALE HOUSES  
IN CANADA.

## SELECTIONS.

**CTRAL** is the name given by Schimmel & Co., to the odorous principle,  $C_{10}H_{10}O$ , separated by them from oil of lemon. This body is present to the extent of approximately  $7\frac{1}{2}$  per cent.

**DIAMIDE IS POISONOUS.** Trials to ascertain the toxic properties of diamide, made by O. Loew and H. Buchner, show that it, like hydracin, is a powerful poison, being toxic alike to plant and animal life.—*Ber. d. d. Chem. Ges.*

**SALINAPHTHOL.**—According to the *Therapeutic Gazette*, salinaphthol is a combination of salicylic acid with naphtha, analogous to salol, which is a combination of the same acid with phenol. Salinaphthol is said to be odorless, tasteless and insoluble in water.

**AS MUCH DIFFICULTY** has been found in the satisfactory administration, when in the form of fluid media, of such insoluble crystalline substances as benzoic acid, antipyrin, sulphonal, naphthol, etc., a writer in a recent issue of *Repartoir de Pharmacie* recommends that they be powdered with sugar or gum, and then suspended in the form of an emulsion in water.

**THE IODINE TEST FOR PEPPERMINT OIL** of the German and Russian pharmacopœias, in which an adulteration with turpentine oil is indicated by a rise in temperature or by slight detonation, has been examined by E. Hirschsohn, who finds that all peppermint oils produce with iodine an increase in temperature, and that to cause detonation at least 40 per cent. turpentine oil would have to be present, smaller quantities not being indicated.—*Pharm. Ztschr. f. Russland.*

**CONDENSED MILK FOR MAKING EMULSIONS.**—According to the *Pharm. Post*, condensed milk is excellently adapted for making emulsions of any kind. A 50 per cent. cod liver oil emulsion is thus made with it: Oil, 8.0; condensed milk, 3.0; glycerin or syrup, 3.0; water, 2.0. The milk is rubbed in a mortar, the oil added gradually and lastly the glycerin and water. To make it more palatable 10 drops of oil of bitter almond and 15 drops of oil wintergreen may be added.

**TO RECOGNISE TRUE PARCHMENT PAPER.**—Dr. Maunth states in *Diengler's Polytechnisches Journal* that if true parchment paper be cut into narrow strips, and placed in hot water for a few minutes, it will retain its hardness and firmness. When torn, the edge of the true parchment paper is almost as smooth as though cut with scissors. The imitation quickly becomes soft when placed in the hot water, and tears with greatest ease, the edges showing the fibres of its structures even to the naked eye.

**VALERIANATES OF ANTIPYRIN AND QUININE.**—M. Sochaczewski in *L'Union Pharm.* announces the preparation of valerinate of antipyrin and a double salt with quinine. Valerianate of antipyrin is said to occur in regular cubic crystals very soluble in water and imparting a strong val-

erian odor and slightly disagreeable taste. The double valerianate occurs in long prismatic crystals, quite soluble in water and alcohol. It is said to have a marked action in neuralgia.

**CALOMEL AND COMMON SALT.**—It is believed by many to be dangerous to administer calomel with salt or other chlorides, though this theory is every once in a while contradicted. Paul Adam in the *Nor. Remed.* reports the results of a series of experiments which he made. He finds that boiling calomel in open vessels in presence of the alkali chlorides, ammonium chloride especially, mercuric chloride, is formed. If the atmosphere is excluded, however, even in the presence of organic matter, no corrosive sublimate is formed. There is no danger, therefore, according to Adam, in administering these two remedial agents together.

**A NEW ETHER.**—M. H. Meslans announces to the *Academie des Sciences* his successful preparation of a new ether, allyl fluoride. It is prepared by letting fall allyl iodide, drop by drop, upon silver fluoride, and differs from all the kindred substances hitherto known in being a gas. It is extremely inflammable, burning with a sooty flame and yielding in abundance the vapors and fluorhydric acid. It is described as smelling abominably of garlic, this being a characteristic of many of the allyl compounds. Allyl alcohol itself has the smell, and it was indeed from the common garlic (*Allium sativum*) that Werthiem first obtained allyl some fifty years ago. It is sulphide of allyl which is the chief constituent of and gives its odor to oil of garlic. It is contained also in oil of onion; and if it were not for a salt of allyl (sulphocyanate) a mustard plaster would have no more power to inflame the skin than a piece of dough.

**PILL COATING.**—Dr. Hughes Davis gives, in the *Pharm. Journ. and Trans.*, January 10, several processes for pill coating which have proved satisfactory in his hands. For gelatine coating he dissolves at a gentle heat 1 ounce of gelatin in 8 ounces of water, adds the white of an egg, heats until the albumen coagulates, strains through flannel into a water bath kept at a low temperature, and adds 2 drams each of glycerin and rectified spirits of wine with 6 grains of boric acid. The pills to be coated are attached to needles, dipped into the solution and revolved so as to make the coating even. The pearl coating of the pills should be as nearly round as possible and moderately dry and hard. Dampen the pills with a solution consisting of equal parts of mucilage acacia, simple syrup and water, and turn into a tin containing French chalk. Shake sharply and empty into a proper receptacle. Repeat the operation, removing as much of the loose chalk as possible before finishing in a dry gullipot polisher. Repeat once more and the work is complete. Where the pills contain essential oils, they may be first coated with a suitable varnish and allowed to dry before attempting the pearl coating.

# MITCHELL'S AREKA NUT Tooth Soap.

Druggists Should Recommend the BEST.

This is what DR. RICHER said before the German Association of American Dentists.

"We know that the whole method of correctly caring for the teeth can be expressed in two words: 'Brush and Soap.' All preparations not containing soap are not to be recommended."

## Mitchell's Areka Nut Tooth Soap

Meets the requirements, being a carefully prepared Soap, combined with Aromatic and Antiseptic Oils, rendering it not only one of the best, but one of the pleasantest preparations in the market.

## MARTIN, ROSSER & CO.,

PROPRIETORS,  
WINNIPEG, MAN.

TRADE MARK **DR. WILLIAMS' PINK PILLS FOR PALE PEOPLE.** REGISTERED.

**MESSRS. FULFORD & CO.** take this means of notifying the trade that they are the Wholesale Trade Agents for these justly celebrated pills, and are prepared to supply the trade in any quantity. Arrangements are now being perfected for an extensive line of newspaper advertising for PINK PILLS, and during the past couple of months several hundred thousand neat pamphlets, with testimonials, etc., have been circulated throughout the country, and there is sure to be a large and increasing demand for these Pills. All dealers are advised to lay in a supply at once, that they may be in a position to meet the demand. Profits large; sales certain. Order your supply now.

## PINK PILLS

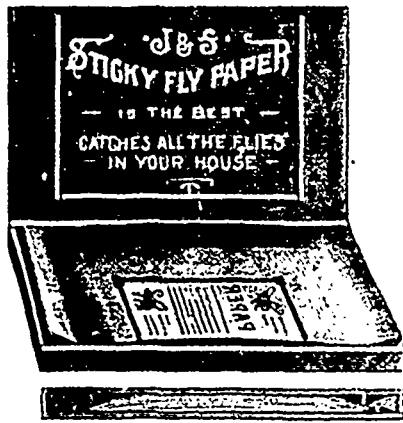
Have no equal as a Blood Builder, for men and women. They cure Anæmia, all forms of Debility, Suppressions of the Monthly Periods, Female Weaknesses, Palpitation, Shortness of Breath, Cold Hands and Feet, Nervous Headache, Chronic Constipation, Premature Decay, Loss of Powers, Loss of Memory, Involuntary Losses, etc. Address all orders,

The Dr. Williams Medicine Co.,

BROCKVILLE, ONT.

FULFORD & CO.,

Wholesale Trade Agents.



**J. & S.**  
**Sticky Fly Paper is the Best.**

Packed in self-clamping wooden boxes so that the edges of each sheet are kept perfectly clean, and your hands will not be soiled when opening the sheets.

Costs you only 65c. a box of 25 Double Sheets, and you sell it for \$1.25. A good Profit—This is Business.

OVER 284,000 BOXES SOLD LAST YEAR.

For Sale by all the Wholesale Drug Houses.



**RAT PILLS**

**UNDOUBTEDLY  
 THE BEST  
 RAT POISON.**

**BECAUSE**—Rats do not die in the house. Rat pills are always ready for use. They require no mixing. They are colored to make them easily distinguishable. There is no danger of being poisoned by accident, as these pills will color anything with which they come in contact. Each pill is strong enough to kill at least five rats. There is a peculiar aroma arising from these pills which is liked by rats and mice. One box contains enough pills to kill 200 to 300 rats. Through these advantages we can safely say that our Rat Pills are highly superior to other preparations of like character.

No mixing of poison necessary.

Simply distribute them where Rats and Mice congregate.

Rats and Mice like them and will eat them.

PRICE \$1.75 DOZ.

RETAIL 25c. BOX.



**EXTERMINATOR KILLS**

**Cockroaches, Bedbugs, Ants.**

This preparation will positively Kill and Destroy these Insects, as also their Breed—and Eggs.

We guarantee our EXTERMINATOR, and are willing to pay \$100 where it does not do the work, if used according to our directions.

PRICE \$1.75 DOZ.

RETAIL 25c. CAN.

**Infallible Moth Powder**

WILL PREVENT AND KILL MOTHS, &C.

Nothing better for Woollen, Silk or FUR GOODS.

Packed in ¼ and ½ lb. Cans. Retail, 25 and 50c.

Wholesale Price, \$2.00 & \$3.75 doz.

**Disinfecting Tablets, for**

BASINS, SINKS, SEWERS,  
 CLOSETS, &c.

These Tablets are very hard and possess all the Deodorizing qualities. It is not so obnoxious as Chloride of Lime, &c. One Tablet will last for one month.

\$1.75 Dozen. 25c. Tablet.

**JARMUTH & STEINKRAUS,**

**Manufacturers,**

**CHICAGO, III.**

## FORMULAE.

## CURLING FLUID.

Take of

Carb. pot . . . . .	2 drms.
Liq. am. font. . . . .	1 dr.
Glycerine . . . . .	4 drms.
Alcohol . . . . .	12 "
Rose water . . . . .	18 ozs.

Mix and filter. Apply sufficient to the hair to moisten it and loosely adjust. The hair will curl on drying.

## HAIR RESTORER.

Take of

Eau de Cologne . . . . .	2 ozs.
Tinct. canthar . . . . .	2 drms.
Oil lavender . . . . .	10 drops.
Oil rosemar . . . . .	10 "

The addition of rectified spirit affords a cheaper preparation.—*British and Colonial Druggist.*

## GLYCERINE SUPPOSITORIES.

Mr. Balland finds that good and permanent glycerine suppositories may be prepared in the following manner.

Glycerine . . . . .	2 parts.
Lanolin . . . . .	2 "
Cacao Butter . . . . .	1 part.
White Wax . . . . .	1 "

Melt the lanolin, wax, and cacao butter, then add the glycerin. Mix intimately, and at once pour into moulds which had been set into a freezing mixture of salt and ice. The glycerin is thus prevented from separating.

Each suppository is made to weigh 6 Gm. (90 grains).—After *Repert de Pharm.*

## PALATABLE CASTOR-OIL MIXTURE.

In the following preparation of castor-oil the disagreeable taste of the oil is replaced by a pleasant flavor of almonds:

R Castor Oil . . . . .	30 parts.
Bitter Almonds . . . . .	2 "
Sugar . . . . .	30 "
Gum Tragacanth . . . . .	1 part.
Orange-flower Water . . . . .	10 parts.
Water . . . . .	120 "

Mix.

The only drawback to this mixture is that it requires a good deal of it for a dose, a teaspoonful of the oil being contained in about five teaspoonfuls of the mixture.

## SALICYLATE OF SODA AS A COLD MIXTURE.

Sodii Salicylas . . . . .	1/2 oz.
Syr. Aurantii . . . . .	1/2 oz.
Aq. menth. pip. q. s. ft. f . . . . .	1/2 oz.

Sig. A teaspoonful every three or four hours.

The *Memphis Medical Journal* starts this on its mission of relief, and says that if given as above until the ringing in the ears is a pronounced effect of the remedy, it will prove an excellent remedial unusually efficacious, as compared to many others that are advocated.

## AROMATIC TINCTURE OF IRON.

The *Pharmaceutische Zeitung* gives the following:

Soluble saccharated oxide of iron . . . . .	320 parts.
Glycerin . . . . .	100 parts.
Simple syrup . . . . .	200 parts.
Distilled water . . . . .	950 parts.

Mix the glycerine, simple syrup and water, and with the aid of heat dissolve the iron in the mixture and strain the solution. When cold add

Raspberry water (quintuple) . . . . .	40 parts.
Orange-flower water . . . . .	40 parts.
Bitter-almond water . . . . .	5 parts.
Cinnamon water . . . . .	5 parts.
Alcohol, 90 . . . . .	330 parts.
Water, sufficient to make whole . . . . .	2000 parts.

The resultant tincture contains five per cent. of iron, has a pleasant taste, and remains clear for a long time.—*Nat. Dr.*

## AROMATIC PASTILLES.

Roasted coffee . . . . .	75 parts.
Wood charcoal . . . . .	25 parts.
Boric acid . . . . .	25 parts.
Sugar . . . . .	60 parts.

Pulverize each separately and very fine; mix, add vanilline to flavor and mucilage of tragacanth to form a mass. Divide into suitable pellets or pastilles.

—*Pharm. Central.*

## THOER'S MOUTH WATER.

To be used as a mouth wash or gargle for bad breath.

Saccharin . . . . .	1 part.
Sodium bicarbonate . . . . .	1 part.
Salicylic acid . . . . .	4 parts.
Alcohol, 95° . . . . .	200 parts.

Mix and dissolve. A few drops in a glass of water make a gargle or collutory which is to be used frequently.

—*Nat. Dr.*

## An American Beeswax Mine.

We have all heard of the famous mine of shaving soap which was discovered in one of the Western States some years ago, and of the natural razor deposit which was subsequently found in close proximity to it. Another marvel has now turned up at Hehalem, Oregon, in the shape of a "beeswax mine." It is described by a correspondent as follows:—"Enormous quantities of beeswax are deposited on the beach near Hehalem. Specimens are found along the beach in various places, but it is plentiful near the mouth of the Hehalem. As the sea shifts the bars pieces of it are washed ashore, and large quantities are found by ploughing in some of the low land near the beach. There are spots where the sea has never reached in the memory of the oldest settlers, and which are covered with a good-sized growth of spruce, where deposits of wax may be found by digging. Several tons have been unearthed, and one man shipped a large amount to San Francisco once, for which he received £100. In quality it is as good as any in the market, and has retained its familiar odor through all its rough usage and age. It is stated that it came from the wreck of a Spanish vessel or a Chinese junk over a century ago. These traditions in regard to the wrecks come from the Indians, and are not reliable." But the body of the story about the beeswax itself evidently is.—*D. O. and P. Reporter.*

## A Substitute for Gum Arabic.

Sulphurous acid is now being used to act upon starch under pressure and at a high temperature. The product, after neutralization, is Schumann's universal gum, which is soluble and extremely adhesive, and closely resembles gum arabic, which is now very scarce and dear.

## To Retail Druggists and Chemists

Yearly contracts for advertising **St. Jacobs Oil** have been made with all the leading newspapers of the Dominion, and other means have been adopted to extend the sale of this Great Remedy. Novel advertising matter, bearing dealers' card, furnished FREE upon application to **EDWIN A. WILSON, Canadian Depot, TORONTO, ONT**

**ST. JACOBS OIL**  
TRADE MARK



**THE GREAT REMEDY FOR PAIN.**

—CURES—  
**RHEUMATISM, NEURALGIA, SCIATICA, Lumbago, Backache, Headache, Toothache, Sore Throat, Frost Bites, Sprains, Bruises, Burns, Etc.**

**HARVARD BRONCHIAL SYRUP**

A Marvelous Remedy for all  
all forms of

**Coughs, Colds, Bronchial Throat  
or Lung Troubles.**

Its marvellous effects endorsed by hundreds of suffering humanity.

It emanates from the highest Medical source in America.

For Sale by all the Wholesale Trade.

For Sale by all Retail Dealers at  
Large Size Bottles, - 25 cents  
Extra Large Size Bottles, 50 cents  
One-half the price of inferior remedies.

**A. J. LAWRENCE,**

Sole Proprietor and Manufacturer  
for Canada,

**MONTREAL, . . . . . QUEBEC.**

Price List of Lambert's Physician's Specialties :

# LISTERINE.

ANTISEPTIC, PROPHYLACTIC, DEODORANT.

One Bottle (14 oz.) Retail, - \$1.25

# LAMBERT'S LITHIATED HYDRANGEA.

KIDNEY ALTERNATIVE - ANTI-LITHIC.

One Bottle (8 oz.) Retail, \$1.25

The Retail Drug Trade promptly supplied at \$10.50 per dozen NET, by any Wholesale Druggist of Canada, or from our Canadian Depot at Toronto, by W. LLOYD WOOD, Agent.

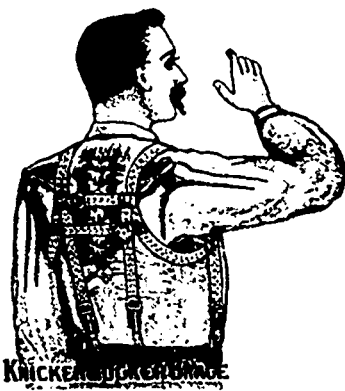
**SUBSTITUTION.**—In view of numerous letters which we have received from Canadian Physicians, complaining of the "substitution of articles of uncertain commercial value where LISTERINE was prescribed," we consider it necessary to hereby

### REMINDE CANADIAN DRUGGISTS

that the word LISTERINE is justly and legally ours, that it is properly identified as such by registration in Canada, the United States and Great Britain. By a system of investigation we shall endeavor to secure for the Physician's prescription, the identical article prescribed, and to this end we are all ready assured the hearty co-operation of many Physicians and leading Druggists of Canada, who universally deery this pernicious practice—**SUBSTITUTION.**

Yours respectfully,

**Lambert Pharmacal Co.,  
ST. LOUIS.**



KNICKERBOCKER

NO MORE ROUND  
SHOULDERS

KNICKERBOCKER

Shoulder-Brace

—AND—

SUSPENDER COMBINED.

Expands the Chest, promotes Respiration, prevents Round Shoulders. A perfect Skirt-Supporter for Ladies. No harness—simple—unlike all others. All sizes for Men, Women, Boys and Girls.

**Cheapest and Only Reliable Shoulder-Brace.**

The importance of a Shoulder-Brace in holding the body erect, expanding the Chest, preventing Round Shoulders and Hollow Chest, is well understood. Good health depends upon it. Many attempts have been made to present a suitable article for this purpose, all of which, however, were objectionable in some respects, which prevented their coming into general use. In the Knickerbocker Brace all objections have been overcome. It is a **Combined Shoulder-Brace and Suspender.** It provides new and improved suspenders for men's pants, and supporters for ladies' underskirts, which do the double duty of holding up and bracing up.

Sold by Druggists. Send chest-measure around the body. Address,

**Knickerbocker Brace Company,**

EASTON, PA., U.S.A. N. A. JOHNSON, Prop.

For sale by **Lyman Bros. & Co.,** of TORONTO, and other Wholesale Druggists.



## 4 POINTS IN FAVOR OF

# Miller's Emulsion of Cod Liver Oil

IT LEADS THEM ALL.

We have, after repeated experiments, succeeded in perfecting the most complete and palatable Emulsion of Cod Liver Oil ever produced, containing fifty per cent. of pure Norwegian Cod Liver Oil, combined with the P. B. dose of Hypophosphates of Lime and Soda. What we claim for this Emulsion is :

- 1st. That it is miscible with water, thereby rendering it of easy and pleasant administration to young children.
- 2nd. That it contains fifty per cent. pure Norwegian Cod Liver Oil in a perfectly disguised form.
- 3rd. Will not decompose, separate or become rancid in any climate or at any age, owing to our having perfected an Emulsion by the use of Carrageen, in place of the usual Gums of Acacia or Tragacanth.
- 4th. That it can be administered to the most delicate invalids and young children (when Cod Liver Oil is required) with the utmost assurance that the patient will not experience the unpleasant, fishy and oily taste of Pure Cod Liver Oil.

15 OZ. \$6.00 PER DOZ. ; 8 OZ. \$3.00 PER DOZ.

PREPARED BY

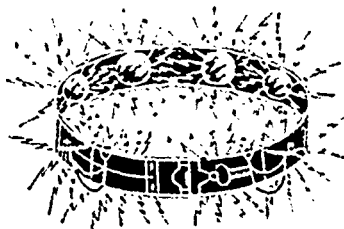
**THE MILLER EMULSION COMPANY,**

New York and Kingston, Ont

Wholesale by **Lyman, Sons & Co., Montreal,**  
**Lyman, Knox & Co., Toronto.**

## THE DORENWEND

# Electric Belt and Attachments



FOR THE SELF-APPLICATION OF  
ELECTRICITY.

C. H. Dorenwend, of Toronto, has invented a system of Electrical Appliances whereby home treatment gives all the benefits to be obtained from costly and complicated Medical Batteries.

All Diseases Curable by ELECTRICITY can be treated by the Dorenwend Inventions.

Rheumatism, Neuralgia, Sciatica, Gout, Lumbago, Indigestion, Liver and Kidney Disorders, Weak Circulation, Spinal Diseases, Paralysis, Female Complaints, Impotence, Nervous Debility, Sexual Decline, and all forms of Nervous Diseases.

The Dorenwend Appliances are endorsed by Physicians and will stand the scrutiny of any expert.

Druggists everywhere take orders for them, and all say they sell well and give the best of satisfaction.

The Dorenwend are the only legitimate Electro-Medical Body Appliances made—and contain all the advantages of most recent discoveries.

THE DORENWEND ELECTRIC FOOT BATTERY FOR COLD FEET, RHEUMATISM, &C.

Every Druggist should get particulars, and Book on Home Electro Medical Treatment.

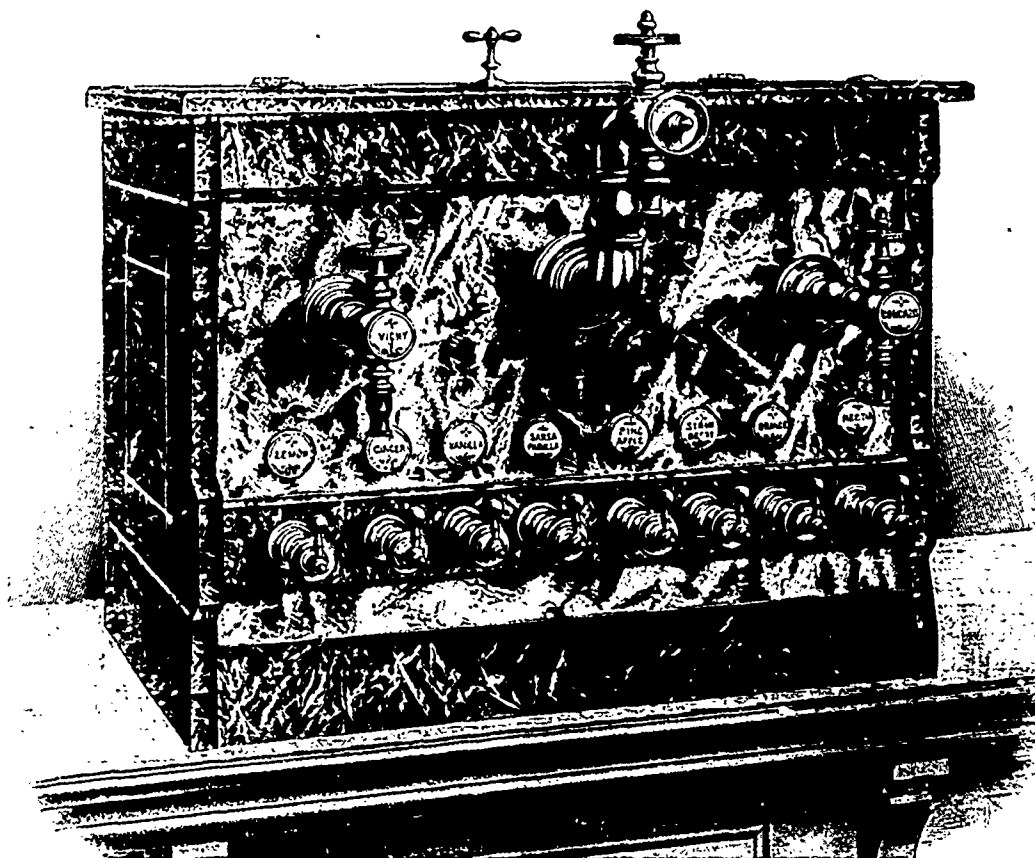
**THE DORENWEND ELECTRIC BELT & ATTACHMENT CO.**

C. H. DORENWEND, Electrician and Manager.

103 Yonge St., TORONTO, CAN.

# Green's Improved SODA ❖ WATER ❖ APPARATUS.

Low Prices. - Easy Terms of Payment.



**A** COMPARISON of the principles of construction and prices of our Apparatus with those of other makes, will convince anyone that ours are not only the **LOWEST IN PRICE**, but also contain the **MOST IMPROVEMENTS** of any on the market

When you wish to purchase an Apparatus, or exchange your present one, we shall be pleased to open correspondence with you on the subject, and send our

**New Illustrated Catalogue Free.**

**SECOND HAND APPARATUS**, of all makes, in thorough repair, at **VERY LOW PRICES**. - Send for List.

**ROBERT M. GREEN CO.,**

1413, 1415 and 1417 Vine Street,

**PHILADELPHIA, PA.**



# REVOLUTION.

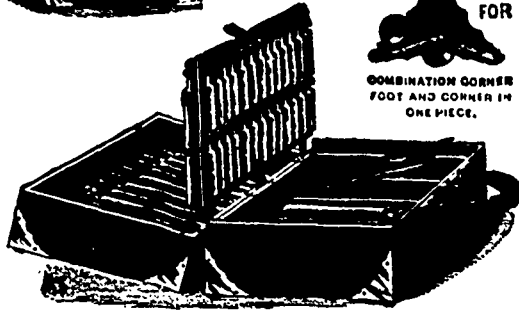
No more destruction of leather loops or spilling of remedies.



METAL SPRING.  
Pat. July 31, 1890.



PAT. AP'D FOR  
COMBINATION CORNER  
FOOT AND CORNER IN  
ONE PIECE.



Springs used instead of loops, with stops or supports at head of the corks.

## No. 1890 BUGGY CASE—OPEN.

Much time and annoyance saved in taking out and replacing the bottles, and the durability of cases TEN TIMES that of the old way of constructing, by the use of these Patent Springs and the Combination Corner and Foot.

No. 1890 Medicine Case contains 5 two ounce bottles, 26 three drachm vials, and 26 one ounce vials. Space for powder papers, loops for instruments, etc. Dimensions, 12 inches long, 7 1/2 inches high, and 5 1/2 inches wide. Case made of black grained leather, leather lined, and mounted with nickel combination corners, nickel spring lock with key, and nickel name plate. Price, \$14.00. Send for full descriptive circular.

## Western Leather Mfg. Co.,

SOLE MANUFACTURERS,  
151 and 153 Fifth Avenue, CHICAGO.

Established 1831.

Incorporated 1891.

PUREST AND SWEETEST

# Argoline • Petrolatum Petroleum Jelly.

Sold in Barrels, Half-barrels, 1 lb, 5 lb, 10 lb, 25 lb. & 50 lb. Tins.  
Also in full 2 oz. Vials at \$5.25 per gross.

We will Print your Name and Address on Label when desired, free of Cost.

A full size sample by mail on application.

SPECIAL QUOTATIONS FOR QUANTITIES.

Argoline Pomade.

Argoline Camphor Ice.

Argoline Cold Cream.

Argoline Camphorated.

Argoline Carbolated.

Our goods are clarified by U. S. process of filtering through bone charcoal, and *not* by the German process of *bleaching with acids.*

ARGOLINE MANUFACTURING COMPANY,  
HOMESTEAD, PA.

## To Druggists :

Dr. Child's Pile Ointment is an infallible remedy, vastly superior to any and every other preparation in the world. It is not only a sovereign specific for Piles, but also for Chaps, Chafings, Pruritus, Fissures, Salt Rheum, all Hot and Itching Sores and Eruptions, and all cases requiring an Astringent, Soothing and Healing application. 2,000 Cures. No failures.

Messrs. D. S. Curtis & Co., New Westminster, B. C., write :—"Please ship us eight dozen Dr. Child's Pile Ointment. The demand for it is constantly increasing, so that we feel warranted in doubling previous orders. It is a remedy that we can conscientiously recommend. Physicians here prescribe it with satisfaction to themselves and their patients." In a previous communication they said : "We take pleasure in pushing this Ointment, having had positive evidence of its merits."

Messrs. Langley & Co., wholesale, Victoria, B. C., April 1889, wrote : "Dr. Child's Pile Ointment gives satisfaction wherever used." And again, April, 1890, they say : "We have remarkably good reports from those who have used the Ointment, and always recommend it, believing it to be all you claim for it."

Mr. J. J. Carment, Prov. Constable, Kamloops, was cured over a year ago and certifies as follows : "I have suffered terribly from PILES and PROLAPSUS ANI, and despaired of ever being cured, but Dr. Child's Pile Ointment has perfectly relieved me, and I take pleasure in recommending it. I also have knowledge of a bad case of Eczema cured by this ointment."

Mr. J. Campbell, merchant, North Westminster, certifies to the cure of three persons.

Mr. J. B. Tiffin, Manager Port Moody Saw Mills, certifies to the cure of two persons.

The boxes are small, but the cures are big. Some of our customers buy it in quantity for stable use, as it cures Scratches, Harness Sores, etc., in horses, better than anything else. It can be recommended with confidence, and it is offered at a price which make it worth your while to stock and push it.

If your Wholesaler does not keep it, we will send one dozen postpaid on receipt of \$6.00, as a "starter." Retail price, \$1.00.

CLARKE & CO.,

Wholesale and Retail Druggists, - KAMLOOPS, BRIT. COL.

Advise your Customers to

SMOKE

Creme de la Creme,

Canvas Back,

Rose Celeste,

and El Caza

CIGARS,

MANUFACTURED BY

J. M. FORTIER,

MONTREAL.

## BUSINESS NOTICES.

As the design of the *CANADIAN DRUGGIST* is to benefit mutually all interested in the business, we would request all parties ordering goods or making purchases of any description from houses advertising with us to mention in their letter that such advertisement was noticed in the *CANADIAN DRUGGIST*.

We call the attention of our readers to the advertisement of T. A. Slocum, whose preparations are meeting with a steady sale.

**NO EXPENSE TO YOU.**—Never be without advertising matter for Humphreys' Preparations. A postal card sent to the address of the Company (corner William and John Sts., New York City) will bring you a handsome sign or supply of Dr. Humphreys' Manuals with your name and address printed on each; all charges prepaid, no expense to you.

THE SEELY MANUFACTURING COMPANY would respectfully call the attention of the trade to the opening of their laboratory in Windsor, Ont., a branch of their Detroit House, which has been doing business successfully for the past twenty-nine years. They are now prepared to manufacture their full line of fine perfumes, etc., which have been held superior by the American people for so long. Their perfumes will no doubt find favor in those who use them in the Dominion. The Company's advertisement appears on page 32, and should interest every druggist who reads it.

**TO THE MEDICAL PROFESSION.**—As Sulfonal-Bayer and Phenacetine-Bayer are insoluble and supplied to the trade in fine crystals (to insure purity) we respectfully suggest when prescribing the above to your patients to instruct the dispenser to have the dose or powders "finely powdered" as the good effects of these modern remedies are greatly retarded when administered in the crystal form. Samples, pamphlets, &c., of Phenacetine-Bayer, Sulfonal-Bayer and Aristol (the new odorless substitute for Iodoform) manufactured only by the *Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany*, mailed free of charge, on application to the Dominion Dyewood and Chemical Co., 77 Front Street, East, Toronto, Sole Agents for Canada.

**AN EASY TEST FOR BELLADONNA PLASTER.**—Authoritative assays for atropia are somewhat difficult and seldom applied by physicians or druggists to Belladonna Plasters. The following method, while not offered as a substitute for assay processes, may be used as a ready method of approximating the amount of Belladonna Extract in the plaster mass, as well as to determine whether coloring (lamp black, etc.) has been added:—Dissolve one square inch of every brand of Belladonna Plaster possible to obtain, in one ounce of benzine. Compare the resulting color, with a solution of one-half grain of Extract Belladonna Root in one ounce of solvent. The result will be surprising. It is so simple we would recommend every druggist to try it. See advt. on first page of cover.

**WHAT A CANADIAN HAS DONE IN THE STATES.**—Some few weeks ago the editor of the *CANADIAN DRUGGIST* had the pleasure of meeting one of our countrymen in the person of Mr. H. Jarmuth, whose "ad." appears elsewhere over the firm name of Jarmuth & Steinkraus, manufacturers of the celebrated "J. & S." Sticky Fly Paper. In 1887 this firm commenced in Chicago to manufacture their products, having but a small capital to do business with, but through push and energy they have now quite an extensive plant on one of the main streets of Chicago. The first year of their fly paper the sales were only 2600 boxes, which has increased to the enormous number for last year of 284,000 boxes, of which about 40,000 were sent to Europe. Their products are all put up and packed in a novel and practical manner, as well as made so. Mr. Jarmuth, of the firm, is a graduate of the Ontario College of Pharmacy of the class of '78. We would suggest to the druggists of Canada to try their goods, especially the J. & S. Sticky Fly Paper.

### Gathering Turpentine.

TURPENTINE forests are divided into "crops" of from eight to ten thousand trees. Two men can box a crop in a week or ten days. The axe used has a long narrow bit, and the hole cut—which must be on the sunny side of the tree, and about two feet from the ground—is some eight or ten inches across the face, four deep, and shaped somewhat like the bucket of a grain elevator. Each contains from a pint to a quart of turpentine a week from the cutting, and they are then "cornered," which means that the corners are chipped to expose more fresh surface to the sun. Every week after this they are "chipped" or "hacked," that is, strips of bark some three inches wide are removed, so that the bared surfaces converge toward the box like spokes toward a hub, and lead the gum down into it. These naked strips are afterward continued up the tree with a spud-like tool having a handle some ten or twelve feet long, to the height of twenty feet, which is as high as trees can be worked. This process is called "pulling."

Meantime the "dippers" have gone around visiting each tree, about once a week to dip the turpentine into buckets and empty it into barrels placed here and there. One negro can perform one of these various processes for a crop in a week, so that as many men are required to work a crop as there are distinct processes going on. A competent white superintendent "rides the woods" to see that everyone does his work properly. A store and distillery at the nearest convenient point on the railway completes the outfit.

After a forest has been worked over on one side it is "back-boxed"—that is, the same operations are carried on upon the other side of the trees. As much turpentine is often secured at this second working as at the first, but it is not of so good a quality. After this the trees are of no further use except for lumber or shingles,

and when a forest of the long-leaf species is thus cut it is followed by the short leaf, which does not yield turpentine.—*Paint, Oil, and Drug Review.*

### Extemporaneous Pancreatic Liquid.

M. Bouvret gives a process for preparing a fresh pancreatic liquid which, in many cases, is preferable to any of the pharmaceutical preparation of pancreatin, as follows: Take the pancreas of a hog, as fresh as possible, and, after depriving it of fatty matter, mince it finely, and add from 1 to 2 volumes of water. Let stand at a temperature of 45° to 50° C. (113°–120° F.) for half or three-quarters of an hour, and then squeeze through strong linen. The expressed liquid may be kept in a refrigerator for several days. The dose is from 12 drams to 2 ounces, taken just after the two principal meals of the day. Salt and pepper may be added, but no alcohol or alcoholic fluid should be mixed with it, as alcohol tends to injure the activity of the juice.

### Liquid Glue.

A French formula for a liquid glue directs that a solution of eight ounces of glue be made in a half-pint of water, in the usual way by placing it in a vessel of water until solution is effected. To the solution it is directed that 2½ ounces of strong aqua fortis (nitric acid) be added, stirring all the while. Effervescence will take place with the evolution of orange nitrous fumes. When all the acid has been added, the liquid is allowed to cool. It should be kept in a well-stoppered bottle, and will remain permanently liquid. It will never gelatinize nor putrefy, and it is said to make a very servicable cement for various domestic uses, such as repairing cabinet-work, chisaware, etc. Another formula directs that a jar or bottle be filled with glue broken into small fragments, and the same covered with acetic acid. It should then be placed in a vessel of hot water for several hours until all the glue is dissolved.

### A Blush.

A blush is a temporary erythema and calorific effulgence of the physiognomy, etiologicalised by the perceptiveness of the sensorium when in a predicament of unequilibrium from a sense of shame, anger, etc., eventuating in a paresis of the vasomotor nervous filaments of the facial capillaries; whereby being divested of their elasticity, are suffused with radiant, aerated, compound-nutritive, circulating liquid, emanating from an intimidated precordia.—*Dixie Doc.*

Whale glue, a new article of commerce, is manufactured on the Russian island of Jeretike from the jelly remaining on extracting train oil by means of superheated steam.



**A GREAT Scientific Revelation.**

The microbe or germinal cause of all disease can now be effectively destroyed and removed from the system.

**Cases of Consumption, Scrofula, Catarrh, Rheumatism, Syphilis, Eczema, Bright's Disease, Stomach Troubles, Tumors, Etc.,**

Cured by the thousands during the past four years.

This remedy has proven a very successful as well as a remunerative line to handle by "Retail Druggists."

While the sale may be slow the first two months, owing to the greater price charged for it, yet in time it actually becomes a "leader" because of its merits.

Druggists all over the United States and in England are finding it a splendid medicine to handle, one of which no complaints are made against by the purchaser.

It really draws trade to one who handles it, especially where we give exclusive agencies for it.

It is a remedy which can be guaranteed by the "seller" to do all we claim for it.

**We want an exclusive Agent in every town in Canada.**

Write for Pamphlets and Prices.

**Wm. Radam Microbe Killer Co., (LIMITED)**

LABORATORY AND OFFICE } 120 King St. West, TORONTO, ONT.

Sole Manufacturers for the Dominion.

C. W. EMAN, General Manager.



For Sale Wholesale by

**Toronto :**

NORTHROP & LYMAN, LYMAN BROS., T. MILBURN & Co., ELLIOTT & Co., F. F. DALLEY & Co., EVANS & SONS, LTD.

**Hamilton :**

J. WINER & Co., ARCHDALE WILSON & Co., F. F. DALLEY & Co., G. O. BRIGGS & Sons.

**London :**

LONDON DRUG Co., C. McCALLUM, JAS. KENNEDY & Co.

**British Columbia :**

LANGLEY & COMPANY.

**Montreal :**

EVANS & SONS, LTD.

**DR. HAIR'S Asthma - Cure**

Has become a Staple and Invaluable Remedy for the Cure of Spasmodic Asthma, Bronchitis and Nasal Catarrh.

All Retail Drug Stores throughout the Dominion of Canada can obtain DR. HAIR'S REMEDIES from Messrs. Lyman Bros. & Co. and Messrs. Evans & Sons, Toronto, Ont.; Messrs. Lyman & Sons and Messrs. Evans & Sons, Montreal, Quebec; Messrs. P. B. Barker & Sons, St. John, N. B.; Messrs. Forsyth, Sutcliff & Co., Halifax, N. S.; Messrs. J. Winer & Co., Hamilton, Ont.

**DR. B. W. HAIR.**

**AN OLD NURSE FOR CHILDREN !**

**MRS. WINSLOW'S**

**Soothing - Syrup**

**FOR CHILDREN TEETHING,**

Should always be used for Children while Teething. It Soothes the Child, Softens the Gums, Allays all Pain, Cures Wind Colic and is the Best Remedy for Diarrhoea.

**TWENTY-FIVE CENTS A BOTTLE.**

**The Northern Pine**

**REMEDY**

IS A QUICK RELIEF AND RELIABLE CURE FOR

**ASTHMA, HAY FEVER**

—AND—

**CATARRH.**

It prevents and relieves more suffering than all other Asthma preparations. Testimonials free.

Trial Package, 10c. Box, \$1. 6 Boxes, \$5.

**The Northern Pine Strengthening Plasters**

**WORN ON THE CHEST,**

Are a great preventative from taking Cold, and never fail to Relieve and Cure Lame Side, Back or Stomach, and will prevent Rheumatism and a doctor's bill if used in time.

Price, 20c. or Six for \$1.00.

All are invited to send for Testimonials.

Sold by Druggists generally or by mail direct from

**JAMES L. LEAVITT,**

Attleboro, Mass., U. S.

**FOR WEAK AND INFLAMED EYES**

Or Chronic Granulation of the Lids, or Ulceration of the Glands, Flim, Weakness of Sight, from any cause.



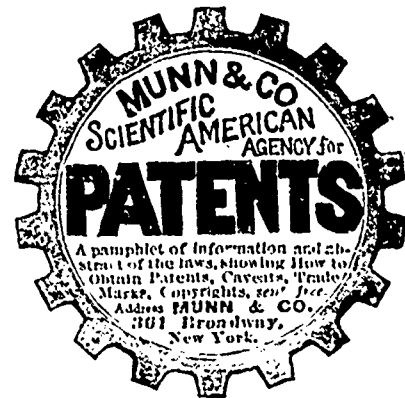
AS A LIP SALVE it is Unparalleled and should be kept on every Lady's Toilet Table, and in Gentlemen's Pockets for immediate use. For Chapped Hands, Cold Sores, Pimples, or Roughness of the Skin, its healing and soothing powers are truly marvelous.

For Piles it is worth its weight in gold.

Golden Eye Salve is sold by all Druggists.

Use Golden Eye Salve for weak and inflamed eyes.

For weak or inflamed eyes use Golden Eye Salve.



A pamphlet of information and abstract of the laws, showing how to Obtain Patents, Caveats, Trade Marks, Copyrights, etc. for Address MUNN & CO., 301 Broadway, New York.

Marvellous !



Wonderful !

**"ALUMINUM"**

**Druggists' Mortar Watch Charm**

The finest work ever executed in this metal.

**WARRANTED 98% FINE. MADE SOLID (NOT HOLLOW)**

Five times stronger than gold.

One-quarter the weight of silver.

Will not tarnish or corrode.

Sent on receipt of price, \$1.62 each.

Money refunded if not as represented.

**Duryea Jewelry Co.,**

180 Broadway, N. Y. City.

**YOUR STOCK IS INCOMPLETE WITHOUT**

Bloxam's Electric Hair Restorer, (retails at 50c.)

Cole's Sarsaparilla Pills, (retails at 50c. & \$1.00.)

" Scr. Tamarac Gum, (retails at 25c. & 50c.)

" Corn Cure, (retails at 25c.)

" Rosalenna, (retails at 25c.)

TERMS, 5% OFF 30 DAYS OR 1 MONTHS.

MANUFACTURED BY

**H. SPENCER CASE,**

HAMILTON, ONT.

Order direct, or through Messrs. J. WINER & CO., of A. WILSON & CO.

### Drug Review.

Trade during the past month has been fair considering the country was on the eve of an important election.

Heavy Chemicals of all kinds are higher on account of high cost of importation at this season of the year.

Opium is easier.

Morphia, so far, has not sympathized with it so much as usual.

Citric and Tartaric Acid firmer.

Carbolic Acid much lower.

Camphor, good demand; firm in price.

Quinine unchanged.

Ambergris has doubled itself in price.

Sulphur, advancing.

Cocaine, firm at advance.

Chlorate Potash higher.

Chloral Hydrate lower.

Orris Root is higher.

Oil Lemon higher and firm at advance.

Salicine easier.

Bitter Almonds much higher.

Capsicum, sharp advance.

Oil Cloves is lower.

Platinum has doubled itself in price; for some time they have been throwing it away in Sudbury. It is worth now from \$25 to \$30 an oz.

Cantharides firm and advancing.

### Brevities.

A singing class—canaries.

Board wages—directors' fees.—*Fun.*

An idle worship—A magistrate on his holiday.

Which of the reptiles is a mathematician?—The Adder.

Why, indeed?—Why do people call for a piece of string, and did anybody ever hear of a whole one?

The line of a woman's fancy is supposed to be the mascu—line; and the favorite "nine" of a man is the feme—nine.

REPORT ON CHANGE.—"I feel myself at home in the city," said His Majesty the Shah. "Here, at least, we all worship the profit."

"I always sing to please myself," said a gentleman who was humming a tune in company. "That is just what I think when you drive me off to school every morning," said his son.

A confectioner was charged with having whipped cream. He said, in his defence, that it was only a trifle. An ice man he must be to talk like this! He ought to be beaten into a jelly.

A foreign physician has discovered that goats are not subject to consumption. The general belief has been that they beat all known quadrupeds on consumption, and took in everything from a circus poster to an oyster can.

THIS TITLE IS NOT REGISTERED.—Boy: "Half an ounce of shirt-buttons, please."

Chemist: "Don't keep them; must go to draper's." Boy: "Oh! mother says I was to be sure to go to the druggists; they be for a sore throat." Compressed tablets of potass. chlor. supplied.

"Hay fever," said the moderator at the Influenza Convention, "may be likened to a tie vote."

"Hear, hear!" cried the audience.

"The eyes and nose both appear to have it."

## Do You Want —TO— Make Money?

**The Celebrated French Cure,**  
Warranted to cure **"APHRODITINE"** or money refunded.

Is Sold on a **POSITIVE GUARANTEE** to cure any form of nervous disease or any disorder of the generative organs of either sex, whether arising from the excessive use of Stimulants, **AFTER** Tobacco or Opium, or through youthful indiscretion, over indulgence, &c., such as Loss of Brain Power, Wakefulness, Bearing down Pains in the back, Seminal Weakness, Hysteria, Nervous Prostration, Nocturnal Emissions, Leucorrhœa, Dizziness, Weak Memory, Loss of Power and Impotency, which if neglected often lead to premature old age and insanity. Price \$1.00 a box, 6 boxes for \$5.00. Sent by mail on receipt of price.

**A WRITTEN GUARANTEE** is given for every \$5.00 order received, to refund the money if a permanent cure is not effected. We have thousands of testimonials from old and young of both sexes, who have been permanently cured by the use of Aphroditine. Circular free. Address **THE APHRO MEDICINE CO., CANADIAN BRANCH, Box 456. Victoria, B. C.**

### A GOOD SELLER.

We want one Druggist in each Town or City for LOCAL AGENT. Will advertise him as local dealer. Make terms with him in which his profit is assured. If you want to get good profits at no expense to yourself, write to us, telling us something about your location and class of trade, also which newspaper you consider the best advertising medium in your vicinity. Address

### THE APHRO MEDICINE CO.,

Box 456. Canadian Branch, Victoria, B. C.



Special price in 1 to 5 gross lots.

M. H. BRISSETTE, St. Paul St., Montreal.

DETROIT, MICH. WINDSOR, ONT.

(Established in 1862.)

## Perfumes.

(DELICATE — FRAGRANT — LASTING.)

— THE —

## Seely Manufacturing Company

Has opened a Branch Office and Laboratory in **WINDSOR, ONT.**, for the purpose of manufacturing a complete line of *Fine Perfumes and Toilet Articles* for the Canadian Trade.

As our Odors have been regarded, for several years, by the American trade, as the *Standard Perfumes*, we feel certain that it would further the interests of every Druggist in the Dominion to carry them in stock.

We not only manufacture a full line of Staple Odors, but also several *Specialties*, amongst which are:

*VICTORIA REGIA.*

*EASTER LILY.*

*MARY ANDERSON.*

*HIGHLAND BELLS.*

*GOLDEN ROD.*

*WHITE HELIOTROPE.*

*LILAC FLOWERS.*

*MIN-NE-HA-HA.*

*KNIGHTS TEMPLAR.*

Our Bulk Perfumes are put up in pound and half-pound packages, at \$4.00 per lb.

We carry a full assortment of *Small Bottled Goods*, ranging in size from 2 ozs. to 4 ozs., put up neatly, and attractively boxed.

We should be pleased to receive a *Trial Order by Mail*, which shall have our prompt and careful attention.

**TERMS.**—60 days net, or 2 per cent. cash in 10 days.

Yours respectfully,

Seely Manufacturing Co.,  
WINDSOR, ONT.

# WHITAKER & GROSSMITH'S

## OLD ENGLISH

# PURE TRANSPARENT SOAPS.

Absolutely free from the irritating effects of the cheap imitations. These can be readily detected in other soaps by applying the tongue, when the powerful erosive action which these noxious articles have on the skin will be at once perceived.

<p>Unscented Ovals, 6<sup>d</sup> in 3 doz. boxes, - \$15 gross</p> <p>30 % Glycerine, in 1 doz. parcels, - 18 "</p> <p>30 % Glycerine, in ½ doz. boxes, - 18 "</p> <p>No. 1 Balls, in 1 doz. boxes, - 21 "</p>	<p>No. 2 Balls, in 1 doz. boxes, - \$48 gross</p> <p>No. 1 Shaving Sticks, in 1 doz. boxes, - 18 "</p> <p>No. 2 Shaving Sticks, in 1 doz. boxes, - 21 "</p> <p>No. 3 Shaving Sticks, in 1 doz. boxes, - \$3.60 doz.</p>
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**We sell these Goods to DRUGGISTS ONLY, and thus secure the Trade a handsome profit.**

SAMPLE CAKES mailed upon receipt of price in stamps.

## ARCHDALE WILSON & CO., Hamilton,

Sole Agents for Canada.

### Canadian Druggist Prices Current:

CORRECTED TO MARCH 10th, 1891.

The quotations given represent average prices for quantities usually purchased by Retail Dealers. Larger parcels may be obtained at lower figures, but quantities smaller than those named will command an advance.

<p>Atconol, gal..... \$3 68 \$3 85</p> <p>Methyl, gal..... 1 90 2 00</p> <p>ALTSICE, lb..... 13 15</p> <p>    Powdered, lb..... 15 17</p> <p>ALOIN, oz..... 40 45</p> <p>ANODYNE, Hoffman's bot., lbs... 50 55</p> <p>ARROWROOT, Bermuda, lb..... 45 50</p> <p>    St. Vincent, lb..... 15 18</p> <p>BALSAM, Fir, lb..... 45 50</p> <p>    Copaiba, lb..... 75 1 00</p> <p>    Peru, lb..... 2 50 2 75</p> <p>    Tolu, can or less, lb..... 75 80</p> <p>BARK, Barberrry, lb..... 22 25</p> <p>    Bayberry, lb..... 15 18</p> <p>    Buckthorn, lb..... 15 17</p> <p>    Canella, lb..... 15 17</p> <p>    Cascarà Sagrada..... 30 35</p> <p>    Cascarilla, select, lb..... 18 20</p> <p>    Cassia, in mats, lb..... 18 20</p> <p>    Cinchona, red, lb..... 60 65</p> <p>        Powdered, lb..... 65 70</p> <p>        Yellow, lb..... 35 40</p> <p>        Pale, lb..... 40 45</p> <p>    Eln, selected, lb..... 16 18</p> <p>        Ground, lb..... 17 20</p> <p>        Powdered, lb..... 20 28</p> <p>    Hemlock, crushed, lb..... 18 20</p> <p>    Oak, white, crushed, lb..... 15 17</p> <p>    Orange peel, bitter, lb..... 15 16</p> <p>    Prickly ash, lb..... 35 40</p> <p>    Sassafras, lb..... 13 15</p> <p>    Soap (quillaya), lb..... 13 15</p> <p>    Wild cherry, lb..... 13 15</p> <p>BEANS, Calabar, lb..... 45 50</p> <p>    Tonka, lb..... 1 50 2 75</p> <p>    Vanilla, lb..... 6 00 9 00</p> <p>BERRIES, Cubeb, sifted, lb..... 2 50 2 60</p> <p>    powdered, lb..... 2 60 2 70</p> <p>    Juniper, lb..... 10 12</p> <p>        Ground, lb..... 12 14</p> <p>    Prickly ash, lb..... 40 45</p> <p>BUDS, Balm of Gilead, lb..... 55 60</p> <p>    Cassia, lb..... 25 30</p> <p>BUTTER, Cacao, lb..... 75 80</p> <p>CAMPHOR, lb..... 65 85</p> <p>CANTHARIDES, Russian, lb..... 2 60 2 10</p> <p>    Powdered, lb..... 2 10 2 20</p> <p>CAPSIUM, lb..... 25 30</p> <p>    Powdered, lb..... 30 35</p> <p>CARBON, Bisulphide, lb..... 16 18</p> <p>CARMINE, No. 40, oz..... 40 50</p>	<p>CASTOR, Fibre, lb..... 7 50 8 00</p> <p>CHALK, French, powdered, lb... 10 12</p> <p>    Precip., see Calcium, lb..... 10 12</p> <p>    Prepared, lb..... 5 6</p> <p>CHARCOAL, Animal, powd., lb... 4 5</p> <p>    Willow, powdered, lb..... 20 25</p> <p>CLOVE, lb..... 25 30</p> <p>    Powdered, lb..... 30 35</p> <p>COCHINEAL, Honduras, lb..... 40 45</p> <p>COLLOIDION, lb..... 75 80</p> <p>    Cantharidal, lb..... 2 50 2 75</p> <p>CONFECTIO, Senna, lb..... 25 30</p> <p>    Crocote, Wood, lb..... 2 00 2 50</p> <p>CUTTLEFISH BONE, lb..... 35 40</p> <p>DEXTRINE, lb..... 10 12</p> <p>DOVER'S POWDER, lb..... 1 50 1 60</p> <p>ERGOT, Spanish, lb..... 75 80</p> <p>    Powdered, lb..... 90 1 00</p> <p>    Eucotis, Keith's, oz..... 2 00 2 10</p> <p>EXTRACT, Logwood, bulk, lb... 13 14</p> <p>    Pounds, lb..... 14 17</p> <p>    FLORES, Arnica, lb..... 15 20</p> <p>    Calendula, lb..... 55 60</p> <p>    Chamonille, Roman, lb..... 30 35</p> <p>    German, lb..... 30 35</p> <p>    Elder, lb..... 20 22</p> <p>    Lavender, lb..... 12 15</p> <p>    Rose, red, French, lb..... 1 60 2 00</p> <p>    Rosemary, lb..... 25 30</p> <p>    Saffron, American, lb..... 35 40</p> <p>    Spanish, Val'a, oz..... 1 00 1 25</p> <p>GELATINE, Cooper's lb..... 1 20 1 25</p> <p>    French, white, lb..... 40 50</p> <p>GLYCERINE, lb..... 18 20</p> <p>GERANA, lb..... 3 00 3 25</p> <p>    Powdered, lb..... 3 25 3 50</p> <p>GUM ALOES, Cape, lb..... 18 20</p> <p>    Barbadoes, lb..... 30 50</p> <p>    Socotrine, lb..... 65 70</p> <p>    Assafetida, lb..... 23 25</p> <p>    Arabic, 1st, lb..... 1 09 1 10</p> <p>    Powdered, lb..... 1 10 1 20</p> <p>    Sifted sorts, lb..... 75 80</p> <p>    Sorts, lb..... 60 75</p> <p>    Benzoin, lb..... 50 1 00</p> <p>    Catechu, Black, lb..... 9 20</p> <p>    Gamboge, powdered, lb..... 1 30 1 35</p> <p>    Guaia, lb..... 80 1 00</p> <p>    Powdered, lb..... 90 1 20</p> <p>    Kino, true, lb..... 45 45</p> <p>    Myrrh, lb..... 45 48</p> <p>    Powdered, lb..... 55 60</p> <p>    Opium, lb..... 3 90 4 60</p> <p>    Powdered, lb..... 5 50 6 00</p> <p>    Scammony, pure Resin, lb... 12 80 13 00</p> <p>    Shellac, lb..... 35 40</p>	<p>    Bleached, lb..... 45 50</p> <p>    Spruce, true, lb..... 30 35</p> <p>    Tragacanth, flake, 1st, lb... 1 00 1 10</p> <p>    Powdered, lb..... 1 10 1 15</p> <p>    Sorts, lb..... 25 75</p> <p>    Thus, lb..... 8 10</p> <p>HERN, Althea, lb..... 27 30</p> <p>    Bitterwort, lb..... 27 30</p> <p>    Burdock, lb..... 16 18</p> <p>    Boneset, ozs, lb..... 15 17</p> <p>    Catnip, ozs, lb..... 17 20</p> <p>    Chiretta, lb..... 25 30</p> <p>    Coltsfoot, lb..... 20 38</p> <p>    Feverfew, ozs, lb..... 53 55</p> <p>    Grindelia robusta, lb..... 45 50</p> <p>    Hoarhound, ozs, lb..... 17 20</p> <p>    Jaborandi, lb..... 45 50</p> <p>    Lemon Balm, lb..... 38 40</p> <p>    Liverwort, German, lb... 38 40</p> <p>    Lobelia, ozs, lb..... 15 20</p> <p>    Motherwort, ozs, lb..... 20 22</p> <p>    Mullein, German, lb..... 17 20</p> <p>    Pennyroyal, ozs, lb..... 17 20</p> <p>    Peppermint, ozs, lb..... 21 25</p> <p>    Rue, ozs, lb..... 30 35</p> <p>    Sage, Ozs, lb..... 15 18</p> <p>    Spearmint, lb..... 21 25</p> <p>    Thyme, ozs, lb..... 18 20</p> <p>    Tansy, ozs, lb..... 15 18</p> <p>    Wormwood, oz..... 20 22</p> <p>    Yerba Santa, lb..... 38 44</p> <p>HONEY, lb..... 13 15</p> <p>    Hops, fresh, lb..... 30 35</p> <p>    Ising, Madras, lb..... 75 80</p> <p>    ISSER POWDER, lb..... 29 32</p> <p>    ISINGLASS, Brazil, lb..... 2 00 2 10</p> <p>    Russian, true, lb..... 6 00 6 50</p> <p>LEAF, Aconite, lb..... 25 30</p> <p>    Bay, lb..... 18 20</p> <p>    Belladonna, lb..... 25 30</p> <p>    Buchu, long, lb..... 40 45</p> <p>    Short, lb..... 15 18</p> <p>    Coca, lb..... 55 60</p> <p>    Digitalis, lb..... 25 30</p> <p>    Eucalyptus, lb..... 18 20</p> <p>    Hyoscyamus..... 25 30</p> <p>    Matico, lb..... 70 75</p> <p>    Senna, Alexandria, lb..... 25 30</p> <p>    Timevelly, lb..... 15 25</p> <p>    Stramonium, lb..... 20 25</p> <p>    Uva Ursi, lb..... 15 18</p> <p>LEECHEs, Swedish, doz..... 1 00 1 10</p> <p>LICOURCE, Solazzi..... 45 50</p> <p>    Pignatelli..... 35 40</p> <p>    Grasso..... 30 35</p> <p>    Y &amp; S—Sticks, 0 to 1 lb., per lb 27 30</p>
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Chlorate, Eng., lb.....	18	20	VERATRINE, oz.....	2 00	2 10	Lemongrass, lb.....	1 50	1 60
Powdered, lb.....	23	25	Zinc, Acetate, lb.....	70	75	Mustard, Essential, oz.....	60	65
Citrate, lb.....	75	90	Carbonate, lb.....	25	30	Neroli, oz.....	4 25	4 50
Cyanide, fused, lb.....	40	65	Chloride, granular, oz.....	13	15	Orange, lb.....	3 75	5 00
Hypophosphites, oz.....	10	12	Iodide, oz.....	60	65	Sweet, lb.....	3 25	3 50
Iodide, lb.....	3 75	4 00	Oxide, lb.....	13	60	Origano, lb.....	65	70
Nitrate, gran., lb.....	8	10	Sulphate, lb.....	9	11	Patchouli, oz.....	1 75	1 80
Pernanganate, lb.....	65	70	Valerianate, oz.....	25	30	Pennyroyal, lb.....	2 00	2 10
Prussiate, Red, lb.....	50	55	<b>ESSENTIAL OILS.</b>			Peppermint, lb.....	4 00	4 50
Yellow, lb.....	32	35	OIL, Almond, bitter, oz.....	75	80	Pimento, lb.....	2 60	2 75
And Sod. Tartrate, lb.....	30	35	Sweet, lb.....	50	60	Rhodium, oz.....	80	85
Sulphuret, lb.....	25	30	Amber, crude, lb.....	40	45	Rose, oz.....	6 00	7 00
PROPYLAMINE, oz.....	35	40	Rect., lb.....	65	70	Rosemary, lb.....	70	75
QUINISE, Sulph., bulk.....	30	35	Anise, lb.....	2 75	3 00	Rue, oz.....	25	30
Ozs., oz.....	35	45	Bay, oz.....	50	60	Sandalwood, lb.....	5 50	9 00
QUINIDINE, Sulphate, ozs., oz.....	16	20	Bergamot, lb.....	5 00	5 25	Sassafras, lb.....	65	70
SALICIN, lb.....	2 75	3 00	Cade, lb.....	90	1 00	Savin, lb.....	1 60	1 75
SANTONIN, oz.....	20	22	Capjunt, lb.....	1 80	1 90	Spearmint, lb.....	6 00	6 25
SILVER, Nitrate, cryst., oz.....	95	1 00	Capsicum, oz.....	60	65	Spruce, lb.....	65	70
Fused, lb.....	1 00	1 10	Caraway, lb.....	3 50	3 75	Tansy, lb.....	4 25	4 50
SODIUM, Acetate, lb.....	30	35	Cassia, lb.....	1 50	1 60	Thyme, white, lb.....	1 80	1 90
Bicarbonate, kgs., lb.....	2 50	2 75	Cinnamon, Ceylon, oz.....	1 50	1 60	Wintergreen, lb.....	3 00	3 50
Bromide, lb.....	63	65	Citronelle, lb.....	70	75	Wormseed, lb.....	3 50	3 75
Carbonate, lb.....	3	6	Clove, lb.....	2 25	2 40	Wormwood, lb.....	6 50	6 75
Hypophosphite, oz.....	10	12	Copaiba, lb.....	1 60	1 75	<b>FIXED OILS.</b>		
Hyposulphite, lb.....	3	6	Croton, lb.....	1 50	1 75	CASTOR, lb.....	13	14
Iodide, oz.....	40	45	Cubeb, lb.....	20 00	22 00	COD LIVER, N. F., gal.....	1 00	1 25
Salicylate, oz.....	15	17	Cumin, lb.....	5 50	6 00	Norwegian, gal.....	1 25	1 50
Sulphate, lb.....	2	3	Erigeron, oz.....	20	25	COTTONSEED, gal.....	1 10	1 20
Sulphite, lb.....	10	12	Eucalyptus, lb.....	2 00	2 10	LARD, gal.....	90	1 00
SPIRIT NITRE, lb.....	30	55	Fenel, lb.....	1 60	1 75	LINSEED, boiled, gal.....	75	78
STROXTIUM, Nitrate, lb.....	18	20	Geranium, oz.....	1 75	1 80	Raw, gal.....	73	75
STRYCHNINE, crystals, oz.....	1 10	1 20	Rose, lb.....	3 20	3 50	NEATSFOOT, gal.....	1 25	1 30
SULFONAL, oz.....	50	55	Juniper berries (English), lb.....	4 50	5 00	OLIVE, gal.....	1 35	1 40
SULPHUR, Flowers of, lb.....	2 1/2	4	Wood, lb.....	70	75	Salad, gal.....	2 25	2 40
Pure precipitated, lb.....	13	20	Lavender, Chiris. Fleur, lb.....	3 00	3 50	PALM, lb.....	12	13
TARTAR EMERIC, lb.....	50	55	Garden, lb.....	1 50	1 75	SPERM, gal.....	1 60	1 75
THYMOL, (Thymic acid), oz.....	60	65	Lemon, lb.....	2 00	2 25	TERPENTINE, gal.....	70	75

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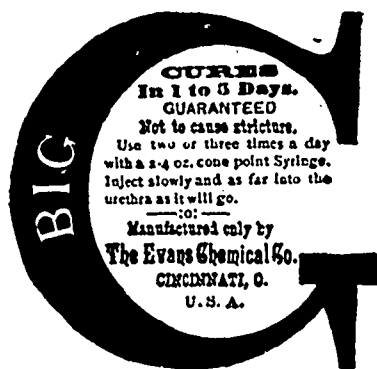
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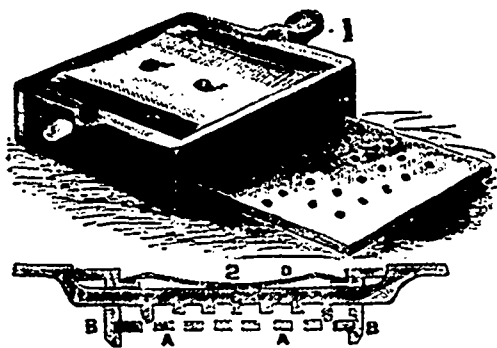
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