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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. }

APRIL, 1891.

{ 6 WELLINGTON ST. WEST, TORONTO, ONT. } No. 4.

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.

SPECIAL REMINDERS.

We issue on the 15th of each month, therefore, Correspondence should reach us by the 7th.
New Advertisements should reach us by the 7th.
Changes of Advertisements should reach us by the 5th.

The Position of the Drug Trade.

THE keen competition which exists in mercantile affairs and its trying results are perhaps nowhere more realized than in the drug business of to-day. In Great Britain the "stores," as they are termed, meaning principally the places of business of co-operative associations, and of minor tradesmen, have not only "cut" largely into the trade in proprietary medicines and toilet goods, but also are dealing largely in drugs proper, such as are usually sold over the counter as household remedies. In the United States not only is this traffic in "patents" more largely indulged in, but numerous other lines which in the good old days druggists alone were wont to handle, and which afforded reasonable profits, notably perfumery, toilet goods, manufactures of rubber, brushes, combs, and innumerable other goods are handled by the leading dry goods houses in the larger towns and cities, and sold by them at greatly reduced prices, in many cases lower than the retail druggist can purchase them for. With us in Canada the same abuse has crept in and in some places is severely felt.

No wonder then that the exclamation is frequently heard, "What is to become of the drug trade?" a query much easier to propound than to answer, but a few suggestions as to helps in this problem may not be amiss. In the first place druggists must place their confidence in the fact that they have a profession that en-

titles them to the public confidence provided it is not abused, that no matter what trade in the lines mentioned may be taken from them by the dry goods or other merchant, still they, as educated, intelligent masters of the art of pharmacy, possessing also a knowledge of its allied sciences, must and always will command from the general public a generous support, if from no other reason than that the druggist alone is commensurate with the task of the preparation and dispensing of medicines and the testing and proving the purity and accuracy of what he sells, and the tradesman can never wrest this power from him. Again, druggists must put away many of the prejudices which some of them hold in regard to the way of doing business. It is right that the first consideration must be pharmacy in all its details, but very few doing business to-day can get a proper return for years of careful study, assiduous attention to the rudiments as well as the higher branches of pharmaceutical education, and their knowledge of drugs and chemicals, without the addition of some branches of business which combine with theirs. There is no denying the fact that the pharmacist who can afford to confine his business *exclusively* to the dispensing and sale of drugs and chemicals is a *rara avis* and the question is, what shall we sell? into what lines shall we branch out? that, while upholding the dignity of the profession, we may obtain in some measure a return not only for our talents but our time. In this matter we would suggest the carrying in stock of some outside lines which might prove not only profitable but easily handled, and if any of our readers are not dealing in those we mention, let him consider whether his trade would not warrant the addition of some at least of these. Amongst others which might be enumerated—homeopathic remedies, not only specifics, which in reality, come under the heading of patent medicines, but all remedies of this school, profits on which are large and the study of them most interesting. Optical goods which prove to be one of the best additions to a druggist's stock, although care must be taken to keep the selection complete, without overstocking. Artists materials have also proved in the hands of some to be very remunerative, and a means of encouraging a taste for the fine arts. Fancy goods in leather, plush, etc., have proved themselves excellent sellers and quite in keeping with the druggist's tasty display.

Fancy stationery and stationer's sundries, including gold pencils, pens, etc., are also suitable goods, as well as smoker's sundries, pipes, etc.

Still another point we would urge, is the preparation and pushing the sale of one's own specialties principally in the way of household remedies and family necessaries. Why should not every druggist, for instance, prepare his own baking powders, furniture polishes, stove varnishes and goods of this description which are now for the most part handled by grocers, but which the druggist would have no difficulty in selling if he has the confidence of his customers. In these as well as in the ordinary lines of household remedies, such as cough syrups, etc., the druggist may command his own price, if he has an article of merit. Other lines might also be taken to advantage, such as medical and surgical instruments and appliances, preparations for microscopic work, photographer's supplies, etc.

Conservatism is well enough in its way but we frequently have too much of it in business, and we must plan out new ideas and bestir ourselves to get our share, at least, of the outside lines that may with propriety be incorporated with a general drug stock.

The Future of Pharmacy.

ON the eve of the publication of the addendum to the B. P., which will take official cognizance of what is already well known, it is very interesting to find that pharmacists have recently been receiving rather a large share of advice from several members of our profession. Some of it has been directly addressed to them, and some has been in the form of criticism of the ready reception so eagerly afforded to new drugs. The character of the advice seems to be conflicting and perplexing, and yet, although detached sentences appear to show a difference of opinion, we believe that on careful investigation the divergence will be found to be much less than even the speakers themselves would suspect. In all the three addresses we propose noticing here, vigorous onslaught is made upon new remedies, one, because they are often secret and so partake of quackery; another, because the rage for new drugs is absolutely fatal to accuracy of observation and precision in treatment; and the third, because no sooner is a new drug placed upon the market than everybody rushes to try it. Mr. Lawson Tait's

amusing life-history of "rubbishin" was no doubt very little overdrawn, but his conclusions against new drugs as the "great burden" of our lives scarcely seem to be justified by his fanciful sketch. Dr. Broadbent, while more guarded in his remark, was no less severe upon the rage for new drugs which seemed to have taken possession of the profession. "When the drugs were recommended simply by an advertising chemist, it was humiliating to see their statements command general acceptance." In spite of Dr. Broadbent's cautious reservations, his remarks and those of Mr. Lawson Tait might well be understood to discountenance progress, and to discourage all original work outside the comparatively limited circle of familiar remedies. On the other hand, Sir E. H. Sieveking, in his address at the opening of the School of Pharmacy, spoke quite as emphatically upon the need of greater energy, perseverance and research. He remarked that within the last few years we had been indebted to the continent for numerous remedies which have been employed largely and beneficially in this country, but have not been discovered here. Curiously enough, he instanced one—chloral—which had previously fallen under the ban of Mr. Lawson Tait; Sir E. H. Sieveking considered it a matter for regret and for serious consideration that so much of the progress of modern pharmacy should reach us from foreign sources. If they attend to such advice at all, pharmacists might well hesitate how to frame a satisfactory line of conduct. They are urged forward by Sir E. H. Sieveking; they are told practically to work in the old grooves or not to work at all by Mr. Lawson Tait. Is all research to be paralyzed from the dread of its results receiving the appellation of "rubbishin," or are eager investigations to be continued on the lines followed abroad? If pharmacists be induced to follow Sir E. H. Sieveking's advice may they not lay themselves open to the charge of being "advertising chemists" when their results are published, and when they attempt to reap the reward of their labors? In our department, headed "Pharmacology and Therapeutics," we publish the experience of practitioners and observers in all parts of the world with respect to the action of well-known drugs, and endeavor to afford aid to our readers in forming an estimate of the value of remedies recently introduced.

The difficulty seems to reside chiefly in a misapprehension of the meaning of terms. In speaking of the value of any new drug, it is well to distinguish carefully between its therapeutic and financial value. The latter may be, and indeed mostly is, dependent upon certain purely business considerations, such as the constant presentation of an easily remembered name in attractive advertisements, but the therapeutic value of a remedy is not necessarily antagonistic to its financial value. In other words, although advertisements may push into notoriety many relatively worthless substances, it cannot detract from the activity of the many

possessed of valuable therapeutic properties. Whether it does more harm than good is another matter. Certainly many medical men instinctively withhold their confidence from new remedies, and the more they are pressed upon their attention the more they feel the dread of being entrapped by another fashionable craze. Still, to take only those mentioned by Sir E. H. Sieveking—chloral, antipyrin and its congeners, and sulphonal,—it may be safely asserted that these have survived their period of probation, but it is none the less true that each in turn has run the risk of being designated "rubbishin." The truth appears to be that undue haste in the publication of results, and undue eagerness to claim priority, will always discredit original research in any direction and this truism applies most particularly to new remedies. An energetic worker in original fields makes what he believes to be a genuine discovery, and the new substance is immediately dubbed anti something. Subsequent impartial investigations show, perhaps, that the original claim is as incorrect as the hundred other uses to which the remedy has been hastily applied, and then its fate is sealed. False to its name, false to the statements of the many who have welcomed it merely as a novelty which could be utilized for their own especial hobbies, it is speedily relegated to the limbo of useless matters. Frequently, we believe, this fate is undeserved, and might have been averted by a little more circumspection. There is, no doubt, a disinclination to reinvestigate a substance which has had its day of fashion. It is cast aside in favor of newer combinations, and its properties may have to wait a long time for recognition. Nearly every pharmacopœia has shown indications of curious waves of fashion, of prejudice, and of tardy justice. Remedies pass in and out of the official circle almost mysteriously; the exit, often the result of a temporary lack of appreciation, no more proves the uselessness of a drug than the frequently prolonged hesitation about its admission. It is simply set aside for further work, like a candidate referred to his studies, and if it is of any real worth it will go on presenting itself at intervals of varying length until the knowledge of its power to do good work appears beyond dispute.

The whole question of the future of pharmacy lies in a nutshell. New remedies are not to be desisted simply because they are new; they are not necessarily useless because they are advertised, but they frequently receive less than their meed of attention, simply and solely because the first statements concerning their powers are made prematurely. Although for a moment Dr. Broadbent spoke so strongly of the advertising chemist, the whole tenor of his argument is in entire sympathy with Sir E. H. Sieveking's wish that the future of research should be more firmly based upon slower methods. It is only by investigations which must be both painstaking and prolonged, and by careful consideration of every possible source of

error before publication, that pharmaceutical results can leave little room for sarcasm and none for scorn.—*Lancet*.

Druggists' Business Methods.

WHILE it is a well known fact that among druggists there are many excellent business men, it is probably true that in scarcely any other line of trade is there as little attention paid to the close and careful buying of goods. This comes in part from the fact that the pharmacist occupies a professional as well as a business position, and his qualifications for the professional side of his calling are independent of and sometimes antagonistic to the qualities which go to make an enterprising and successful merchant. It is also true that where the business is principally in the compounding of prescriptions and in the strict line of pharmacy, it is not a matter of very great importance what prices are paid for his drugs, inasmuch as their cost is a comparatively trifling matter, it being much more important that they be of the best quality. In these days, however, business is rapidly changing, and there are comparatively few of the old-fashioned apothecary shops, druggists finding it necessary, in accordance with the spirit of the times and the movement of business, to enlarge their line and to change their methods. In this condition of things it becomes necessary for the successful druggist to be a skillful merchant as well as an educated pharmacist, and attention must be given to the buying of goods to the best advantage, availing himself of the best discounts and lowest prices obtainable. It is obviously a matter of considerable importance whether by careful buying he be able to purchase a case of mineral water or of pharmaceutical preparations at an extra 5 or 10 per cent. discount, and the profitableness of his business will in many instances depend upon his management and skill in this regard. It is a well-known fact that in the present condition of the market there are better prices in most lines for those who look for them than for those who are simply content to pay the prices demanded by the houses with whom they regularly deal. For this reason it is the part of wisdom for druggists generally to give their best attention to the buying of their goods. The result of well-directed experiment in this direction by those who have heretofore given comparatively little attention to the matter, will, we are confident, be a pleasant surprise in the way of more advantageous prices and larger profits.—*Pharm. Record*.

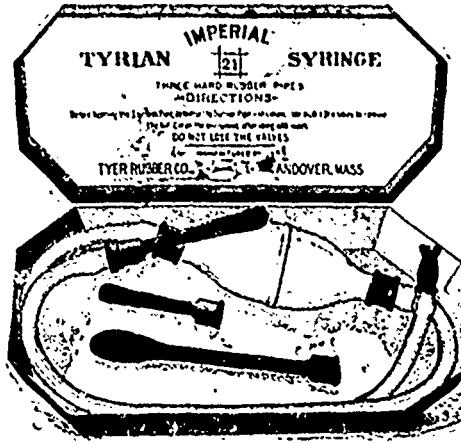
MEM.—A fireman writes to say that if your pianoforte should catch fire the best plan is to play on it.

Neighbor—How does it happen that your oldest daughter has consumption, while your youngest daughter is the picture of health? They appear to be of exactly the same temperament. Hostess—My oldest daughter got her winter fashions from Paris; the other got hers from Canada.—*Amer. Exchange*.

"TYRIAN" RUBBER GOODS

Under this Trade Mark we manufacture a full line of first-class druggists' sundries. Ask your Wholesale Drug House for Tyrian Rubber Goods.

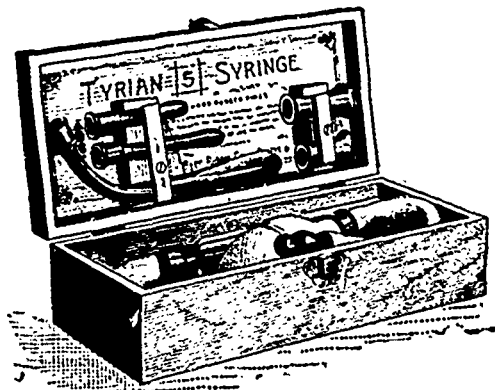
Fairbank's Fountain Syringes,
Bulb Syringes,
Atomizers,
Nursing Bottles,
Bandages,
Urinals,
Nipples, Etc.



Hot Water Bottles,
Invalid Cushions,
Lotion Bands,
Sheeting,
Bed Fans,
Catheters,
Gloves, Etc.

THE TYRIAN IMPERIAL SYRINGE

Is manufactured to meet the demand for a first-class syringe at a moderate price. It has a good bulb and tubing, hard rubber valve boxes, three hard rubber tubes in a neat box, and is a good instrument in every way.



TYRIAN No. 5 SYRINGE.

This instrument is first-class in every respect, is made of the very best rubber, has hard rubber valve boxes, six hard rubber pipes, and hard rubber sinker. It includes bent fluted vaginal and corrugated irrigator. It is put up in a handsome wooden box. The most complete bulb syringe that can be made.

If you are in need of Syringes, Atomizers, Nipples, Nursing Bottles, Teething Rings, Air Goods, Sheeting, Bandages, Etc., write to your wholesale druggist for "TYRIAN" Goods.

MANUFACTURED BY

TYER RUBBER COMPANY,

OFFICE AND FACTORY, ANDOVER, MASS.

SAMPLE ROOM, 50 BROMFIELD ST., BOSTON.

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, Odor 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.

KENNETH CAMPBELL & CO.

WHOLESALE DRUGGISTS AND
PHARMACEUTICAL CHEMISTS,
MONTREAL.

CAMPBELL'S FLUID EXTRACTS

Are prepared with scrupulous care and are as low in price as quality will justify.

CAMPBELL'S ELIXIRS

Are at least equal to any before the public, and are very moderate in price.

CAMPBELL'S PHARMACEUTICAL SYRUPS

Are prepared with every regard to quality and appearance. A comparison is solicited with other makes.

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.

J. PALMER & SON

1743 & 1745 Notre Dame,
MONTREAL.

AGENTS FOR

PEARS' & SOAP,

Bertrands Freres Perfumery,

Dupont's Brushes.

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,
Paper Bags,
TWINES,

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.

Printing at lowest prices.

14 Front St. West, - TORONTO.

THE GREAT EUROPEAN DYE



Unequaled for Richness and Beauty of Coloring.

They are the ONLY DYES that

WILL NOT WASH OUT!
WILL NOT FADE OUT!

There is nothing like them for Strength, Coloring or Fastness.

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

If you doubt it, try it! Your money will be refunded if you are not convinced after a trial. Fifty four colors are made in Turkish Dyes, embracing all new shades, and others are added as soon as they become fashionable. They are warranted to give more goods and do it better than any other Dyes.

Same Price as Inferior Dye, **10 cts.**

Canada Branch: 481 St. Paul Street, Montreal.
Send postal for Sample Card and Book of Instructions

LYMAN BROS. & CO.

TORONTO, - ONT.

We offer the following:

LUBINS' 27 OZ.

Frangipani,
Grand Trunk,
Guards' Club,
Heliotrope,
Jockey Club,
Lily Valley,
Marie Stuart,
Night-blooming Cereus,
Ocean Spray,
Opoponax,
Sweet Briar,
Violet,
White Rose,
Widow Machree.

Howard's Quinine,
Howard's Cocaine,
Morphia Sulphate,
Kilner's Feeders,
Coutts' Acid,
Pears' Soaps.

Lyman Bros. & Co.

TRADE NOTES.

George G. Ingersoll has purchased the Geary drug store at Point Edward, Ont.

Dr. C. E. R. Vidal, late House Surgeon of Montreal general hospital, has located at Lethbridge, Alberta.

Dr. Goulding, of Gladstone, Man., has sold his drug store and residence to M. Wilson and has moved to Virden.

C. H. Coven has sold his branch store, corner Parliament-St. and Wilton avenue, Toronto, to J. Stewart, of Alliston.

N. A. Bosworth, Stratford, Ont., has moved into his new premises, one of the finest and best fitted drug stores in Western Ontario.

Mr. George A. Fear, formerly of Brussels, Ont., has purchased the drug business of the estate of the late Geo. Rhymas, of Goderich, Ont.

Mr. W. H. Taylor, formerly of J. H. Nasmyth & Co., Stratford, Ont., has purchased the drug business of V. E. Chantler, Owen Sound, Ont.

The new drug store opened by F. Yapp at the corner of James and Cannon-Sts., Hamilton, Ont., is handsomely fitted up and one of the most attractive drug stores in that city.

A. W. Draper, who recently sold out his drug business at Vancouver, has formed a partnership with James Leithead, of Montreal, with the object of carrying on a wholesale tobacco and cigar business at Vancouver.

Prof. P. W. Bedford, of the New York College of Pharmacy, has resigned from the faculty, owing to the fact that his time is fully occupied as editor of the *Pharmaceutical Record*.

Among the prescriptions that came into the Rossin House drug store, Toronto, was one from the famous physician and medical writer, Sir Morell Mackenzie. The Rossin House drug store is now in possession of the prescription, together with the great doctor's autograph.

H. McDowell & Co., druggists, Vancouver, have bought out the business of A. W. Draper, drugs, of the same place, the latter store will be under the management of H. H. Watson, who has been connected with the business for upwards of a year, and has now been taken into partnership.

Mr. H. J. D. ger, druggist, of Norwich, is the possessor of a handsome and valuable gold-headed cane which was presented to him by Mr. C. Dake, proprietor of the Dake House, a few days ago, as a token of esteem, and bears upon its handle a neatly engraved inscription to that effect.

Dawson, Bole & Co., wholesale druggists, Winnipeg, Man., claim to be the largest purchasers of strychnine on the continent, their sales of this drug for this year so far being nearly one hundred pounds. The heavy demand for the drug is in the spring of the year and it is used very largely for poisoning gophers.

E. J. Skelly, of Elmvalle, who has just assigned, seems to have been as unlucky

in the way of fires as he is versatile in his manner of making a living. He formerly kept a livery stable, but when he was burnt out in 1885 he gave that up, and branched out in the drug business. He was again burnt out last October, and as his business was only a small one, and he was mainly in the hands of one house, it is perhaps not to be wondered at that he made an assignment. *Journal of Commerce*.

The last British Columbia *Gazette* contained the advertisement of the association of the "British Columbia Roburite Explosive Company, limited." The capital stock is placed at \$50,000, in 500 shares of \$100 each. The trustees are James Dunsmuir, Hon. F. G. Vernon, and John Wilson, all of Victoria. Their object is to acquire, for British Columbia, the invention of an improved explosive called roburite, to manufacture it and other explosive substances, compounds, etc., etc., the company to exist for fifty years, with principal place of business at Victoria.

It now transpires that Chinese cigar manufacturers in Havana are flooding this continent with "Havana" cigars made from Chinese tobacco. These cigars are very cheap but sell at retail at the same price charged for genuine stock. No Chinese name appears on the boxes. The wary Celestials adopt some mellifluous Spanish cognomen, and their counterfeits are blazoned with such titles as "Don Leon de la Para" and other impressive names. The business is entirely new and one that is liable to make a hopeless cynic out of connoisseur smokers.—*Journal of Commerce*.

Mr. Walter G. A. Hemming, acting on the advice of his physician, has resigned his position as financial manager of the Hemming Bros. Co., Toronto, and will in future devote himself to the business of winding up insolvent estates, an occupation which will, we trust, give him enough out door exercise to keep him in health. The Company will, however, still have the benefit of his advice and invaluable experience as he will retain its presidency, and give its interests a share of his time. His former position will be filled by Mr. Thomas McNaught, who for several years past has looked after the financial interests of A. C. Anderson & Co., of Toronto. Mr. Hemming is deservedly popular with the trade and has their good wishes in his new sphere of labor.

One of the handsomest drug stores in the Province is that of Mr. N. A. Bosworth, Market Street, Stratford, Ont., in the Rankin block, which he had especially fitted up for himself at a cost of \$1,500. In the fitting and arranging of the store Mr. Bosworth has shown his usual good judgment and excellent taste. The large plate glass windows are neatly capped and the entire store has been neatly fitted up. It has been repapered with costly gilt paper, a new furnace has been put in, and some of the most artistic and handsomely carved oak store furniture ever turned out of a factory put in. The entire inside

fittings are of massive oak. The counter fronts have glass fitted into them, with movable shelving surmounted with beautiful oak, and plate glass show cases. There are neat show cases also of oak. The dispensing case is at the left of the store as you enter, which is well supplied with light afforded by the magnificent plate glass front. In the centre of the store is a large oak stand surmounted by double plate glass show cases. In the rear of the store is a large work room. The store is well supplied with light, having an arc light, incandescent and gas. The fittings for the store are so arranged that in the case of fire they can all be moved out in a very short space of time.

Manitoba Notes.

Mr. B. M. Cuniff, of Portage la Prairie, left for home a day or two ago after ten days treatment in the Winnipeg Hospital for lumbago. His many friends will be glad to know that he has been greatly benefitted.

Mr. W. J. Mitchell was in Winnipeg for a few days and seemed to enjoy the hearty welcome he received from his numerous friends.

The examination of the students of the Manitoba College of Pharmacy began 1st of April and continued for three days. The names of the successful students will not be made known till after the 8th inst., when the Council meets to grant diplomas and transact other business.

We have been pleased to note from the remarks of several correspondents the gratifying success which our esteemed friend, Mr. Rosser, has met with since embarking in business in Winnipeg, and we have now the pleasure of congratulating him on his still further success in the wholesale trade. Harry never did anything by halves, and his present venture seems to have been of the duplicate order. As a correspondent remarks, "population is what is wanted to make this the greatest country on the earth" and that Mr. R. "has grasped the proper idea." May the "pair" live long and carry out this idea is the wish of the editor.

Nova Scotia Notes.

The drug business in this Province appears to be in a healthy and flourishing state. Most of the druggists seem to be busy—doing well and expecting to do better. New ventures are starting at several places. We hear of two recently at Truro—Crowe Brothers, who have acquired Mr. Atkins branch business, and R. O. Christie, who is about to open a new store. Truro is already pretty well supplied with drug stores, and it is perhaps somewhat doubtful if there is room at present for more. But it is a thriving place, with many prosperous manufacturers, and the centre of a fine farming region, and we trust the hopeful forecast of these new beginners will be justified by the demands of the rapidly growing town, and that they will all make their fortunes.

We hear that it is likely a new store will soon be opened in Windsor.

Mr. Lockwood, at Amherst, has recently moved into a handsome and spacious new store, showing commendable enterprise, and evidencing the success that has attended him during the two years he has been in business.

Albert H. Buckley, the enterprising and popular young druggist, has purchased the property occupied by him, on the corner of Spring Garden road and Dresden row, Halifax, for \$6,000. Rumor has it that he is about to take a "partner for life."

The case of an unregistered and unqualified man keeping open shop and boldly defying the law has caused our Pharmaceutical Council some trouble. Judgment obtained against him before the magistrate was appealed against on some technical point, and most vexatious delays occurred before the conviction was confirmed by the higher court. Meantime the offender has been breathing threatenings loud and deep against one, in particular, of our Councilors, upon whom had fallen the disagreeable duty of securing evidence and prosecution. The issue of the appeal was too much for the delinquent's self-control, and his threats of personal violence compelled his opponent to take steps to have him bound over to good behaviour. The latest we have heard of this case is that the stock of the offending shop disappeared between dark and daylight, and the proprietor with it, so the Society are left masters of the field, but minus the fine and costs.

The Ohio State Pharmaceutical Association.

The 13th annual meeting of the Ohio State Pharmaceutical Association will be held in Dayton, Ohio, on June 9th, 10th, and 11th, 1891. All communications in reference to the exhibition of drugs, chemicals, &c., should be addressed to the local Secretary, Mr. J. G. Spengler, 2nd and Webster Sts., Dayton.

Lewis C. Hopp,
Permanent Secretary.

Manitoba Pharmaceutical Association.

PRELIMINARY EXAMINATION.

GEOGRAPHY—TIME, TWO HOURS.

Examiner—H. E. Neelands.

- (a) Give the boundaries of North and South America.
- (b) Name the largest river in each.
- Name five cities in Europe with their location, and what they are noted for.
- Sketch a map showing the route of the Canadian Pacific Railway, marking the location of the principal cities through which it passes.
- Name the capital of each Province of the Dominion of Canada, where situated, and write five lines about each capital.

- Sketch a map of Asia, showing the different countries, with their capitals.

ENGLISH.

- Punctuate the following passage and, where necessary, put in capital letters and correct the spelling:—
"men when they talk generally convey some idea or give expression to some feeling women rarely do either they are not in any way embarrassed by a want of ideas they can do without them and will desecant with marvelous volubility upon the most airy of nothings."
- Analyze fully the following sentence and parse the italicized words in it:—
"Valiant gentlemen,
Let us survey the *vantage* of the field;
Call for some men of *sound* direction;
Let's want *no* discipline, make *no* delay;
For, lords, *to-morrow* is a busy day."
- Write thirty lines on Electricity or Hudson Bay Railway.
- Define — Pronoun, Verb, Adjective, Mood.
- Are the following correct? If not, correct them:—
"Wrong hath but wrong, and blame the due of blame."
"Them is my sentiments,"
"Them are my sentiments,"
"I won't never tell,"
"Let's you and I go for a drive,"
"Every one should try their best,"
"If he was to go (which he isn't likely to) who would care?"

ARITHMETIC—TIME, THREE HOURS.

- A. invests £200 and B. £500 in a business; after four months A. adds £800, and after five months B. adds £700. At the end of the year the profits are £413, 5s. How should it be divided?
- In what time will \$70 amount to \$225 at $4\frac{1}{2}$ per cent.?
- Reduce to its simplest form—
$$\frac{5\frac{7}{8}}{7\frac{7}{8}} \div \frac{1 - \frac{1}{16}}{7\frac{7}{8} - 5\frac{7}{8}}$$

—of $3 \times \frac{1}{16}$
- How many grains in one oz. apoth.? In one oz. avoird.? In one oz. Troy?
- How many grains in a 3 oz. 4% sol. of Cocaine?
- Divide 8.214 by .000019, and the result by 61

The working of these examples as well as the answers must be written in full.

HISTORY—TIME, TWO HOURS.

- What do you know about Unrestricted Reciprocity? What is the cause of the dispute between Canada and the United States regarding Behring Sea?
- Tell all you know about Wm. Pitt, Disraeli, Gladstone, and Parnell.
- Give date and cause of the American revolution.
- Write twenty lines on the battle of Waterloo.

LATIN—TIME, THREE HOURS.

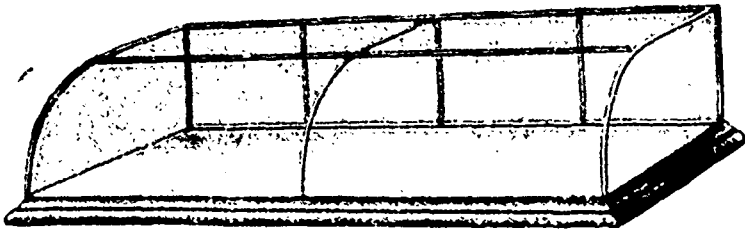
From Ovid, Book V.

- Translate into English—
Primus ceres unco glebam dimovit aratro
Prima dedit fruges alimentique mita terrum,
Prima dedit leges; Cereris sunt omnis munes
Illa canenda mel est, utinam modo decere possen
Carmina digna dea; Certe est dea carmine digna.
- Translate into English the following:—
Regia solis erat sublimibus alta calumnis,
Clara micante auro flammisque imitante pyropo,
Cujus ebur nitidum fastigia summa Ceneba
Argenti bifores radibant lumine valvae;
Materiam superabat opus; nam mulciber illic
Alquora catarat medias cingentia terras
Terrarumque orbem, collumque, quod imminet orbe.
- Give the principal parts of the italicized verbs in the above.
- Translate into Latin:—
(a) He asked me my opinion.
(b) Though the strength fails, still the will should be approved.
(c) Take a tablespoonful when required.

A Drug Clerk Arrested.

A drug clerk named Robert Hossack, who had a room at No. 323 Sherbourne street, and managed a drug store at No. 338 Queen street east, owned by Dr. Hastings, was arrested on February 10th, on a charge of stealing goods from the wholesale establishment of Messrs. R. W. Elliot & Co., Front street east, and was lodged at police headquarters. It appears that Hossack was formerly employed by Messrs. Elliot & Co., but a short time ago he was employed by Dr. Hastings to manage that gentleman's drug store. Hossack frequently called at the wholesale house to purchase goods, and on several occasions it was suspected that he had clandestinely carried off small packages of goods without paying for them. On the day mentioned he called at Elliot & Co.'s establishment to make some purchases, and the firm suspecting him, an employe who was set to watch him took refuge in a large vault, where he had a good view of the premises. While making his selections Hossack went into the vault, and immediately after his departure a bottle of cocaine, valued at \$9.50, was missed. A warrant was at once taken out, and Hossack arrested. The prisoner was tried on March 10th, and being found guilty, was sentenced to three months in the Central prison.—*Mail.*

Keep your promise to the letter; be prompt and exact, and it will save you much trouble and care through life and win for you the respect and trust of your friends.



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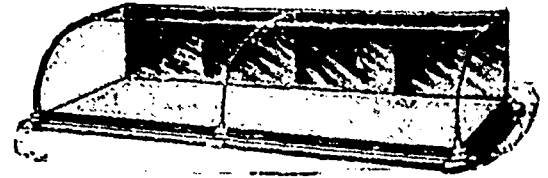
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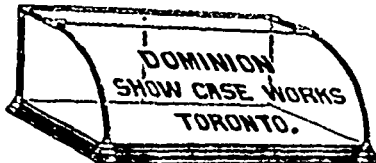
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STUDY

This Comparative Analysis.

	Johnston's Fluid Beef.	Beef Extracts.
Albumen, Febrine, (nutritious element)	22.10	None.
Soluble Salts of Flesh, (stimulating element)	33.40	58.50
Mineral Salts, (bone forming element)	12.60	21.50
Moisture,	31.90	20.00
	100.00	100.00

The only conclusion from these absolute figures is that

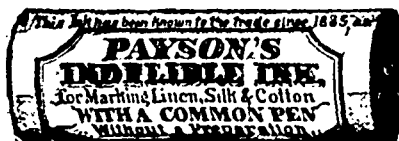
Beef Extracts are Merely Stimulants.

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CORRESPONDENCE.

Correspondence is invited from all members of the profession. We do not hold ourselves responsible for opinions of correspondents. All communications must have the name of the writer attached, not necessarily for publication, but as a guarantee of good faith. Any nom de plume may be used for publication. Write only on one side of the paper, and be concise.

Mr. R. W. Elliot's Figures.

To the Editor:

SIR,—In the February number of the *Canadian Pharmaceutical Journal* appears a letter from Mr. R. W. Elliot, in which a number of figures are given, representing these as a summary of a "searching audit," made in 1886, of the amount of fees received from students and the distribution of the same among the teachers of the College, and refers to the *Journal* of March, 1886, page 121.

No such figures are given in this number, or any other, that show such details.

If this document, as represented, was presented to the Council in 1886, it was not published.

I have written to the Registrar to ascertain if such an "audit" is among the papers of the College. He replied there is "no such document in the possession of the College."

Is it possible that it has shared the fate of the voting papers of the election in July, 1887?

The only sources from which members of the College can obtain information are from the published accounts or from papers in the possession of the College.

The amounts given by me, as fees from students, were taken from the annual announcements, and the estimate of the amount received by the teachers are, by the admission of Mr. R. W. Elliot, very nearly correct.

In the 15 terms, or 7½ years, there is only a difference in my estimate and the amount as stated by Mr. Elliot, of \$118.16, or an average of \$27.87 per term.

As might have been expected this has formed an excuse for a violent attack upon the writer.

Mr. R. W. Elliot states that he was Chairman of the Executive and Finance Committee of the Council when the agreement was made with the teachers in 1886.

Mr. Elliott was also Chairman of the Executive and Finance Committee for the College when the *Journal* contract was made.

All the information given to the members of the College regarding this contract will be found in the *Canadian Pharmaceutical Journal* of September, 1883, page 19, and March, 1884, page 115, which is practically nothing regarding the provisions of this agreement or gift.

There are a number of inaccuracies in this letter from Mr. R. W. Elliot, but as this letter has little bearing upon the main points in my letter of December 22nd, 1890, published in the January, 1891, number of *CANADIAN DRUGGIST*, I will not refer to these inaccuracies.

Mr. R. W. Elliot is undoubtedly aware that personal abuse is the last resort of a man who has no substantial argument to advance.

Yours truly,

JOHN A. CLARK.

A typographical error was made in my communication of Dec. 22nd, regarding the number of students, spring term, 1882. It is printed 41, and should be 21.—J.A.C. Hamilton, April, 1891.

Reply to Mr. W. B. Sanders.

To the Editor:

In the *Pharmaceutical Journal* for April is a three-column letter from Mr. W. B. Sanders, of Stayner. He is a member of the Council and as such his statements may have weight with those who do not know him. Please, therefore, allow me space to correct his mis-statements.

We did, as a Council, choose Canadians of experience as teachers, where possible. We were quite aware of the excellent record of Mr. Scott, of Paris. He, however, had no experience in teaching the subjects taught in our College. I have just received a letter from his father, Mr. Geo. L. Scott, of Paris, who generously says, I can see good reasons for the preference of those chosen.

Mr. Geo. Suttie, of Detroit, may be a good man. He applied for only two positions, Materia Medica and Botany. His application was dated Saturday, Jan. 31, and did not reach us until the evening of Monday, and the Council met on Tuesday, Feb. 2nd. As we had to make inquiries as to the character, &c., of all applicants, the time was much too short.

I repeat we hoped to find a Canadian of experience as a teacher, capable of taking the important department of Practical Work—an all-round man who could exercise a supervision over all departments of our College, not necessarily to interfere with the other Professors. Our reasons for wishing such must be apparent to all. No such man offered from Canada. We therefore chose Prof. Heebner, of New York.

As to the salary statement he makes, my report of February last shows that the new staff of four Professors will give double the work given by the three teachers in 1888 and 1889 for less money. And that we will pay the four only \$300 more than we were paying the three teachers under the readjustment of salaries by which Mr. Shuttleworth got \$1800, Dr. Avison, \$1000, and Mr. Harrison \$900, altogether, \$3,700; and because I say it is altogether \$1,000, he grows wrathful and says, "it is by methods such as this that the Council and their dupes are led, and wants to know how long it is to continue."

This is the explanation. Although the Council decided to pay to each Professor a definite fixed salary, Dr. Avison claimed that he could compel us to pay \$350 for extra services on the microscopes and he rendered the Council an account, I believe, for that amount. The account was referred to the Educational Committee to deal with. It was under deliberation by them

when my report was presented to the Council. In preparing my report it would have been incorrect to have put the salaries of the three teachers, as Mr. Sanders states, at \$3,700, because the account of Dr. Avison's was part of his salary he contended. I thought that the Doctor would not feel disposed to take much less than \$350 if it was an honest account, so I put \$300 down as the amount that might be settled upon. That's how I got the \$1,000. Immediately after the adoption of my report the Educational Committee brought in their report (*Pharmaceutical Journal* for March, page 121) recommending that we pay Dr. Avison \$200 instead of \$350, so that I misjudged the amount by \$100, and Mr. Sanders is incorrect to the extent of \$200 with all the facts before him. If Mr. Sanders had read, as some other members of the Council did, the applications, testimonials, &c., of the persons applying for teachers, layed before him at the Council Board, or if he would follow the proceedings of the Council better than he does he would not write such nonsense and show such ignorance. He sat there and never mentioned either the claims of Messrs. Scott and Suttie, nor did he point out my alleged error in my salaries. I ask who is the dupe? and who is being led? For some reason best known to himself he devotes his time throwing obstacles in our way, lobbying against our Pharmacy Act, and helping men to get special Acts through Parliament to run a drug store without passing our examination, as he did recently in the case of Mr. Brown, of Tottenham.

Respectfully,

JOHN J. HALL.

A NEW USE FOR STICKY FLY PAPER.—A paper mouse trap? Certainly, and an uncommon good one it is, too. It was invented or discovered—Josh Billings used to say that all our inventions are mere discoveries—by a bright little housekeeper in a neighboring city, after this fashion: Despite all screens, the ubiquitous fly persisted in visiting her kitchen, and to stop his buzzing she bought some sticky fly paper and told madame the cook to display its attractive and retentive surface freely in various parts of the room. And it was so, but the next morning there was a sound of squeaking and of squealing, and lo! upon a sheet of the paper, which had been laid flat on the tub-lids, was Master Mus Musculus, very much distressed in mind, and as to all four feet very much stuck fast. Up to date, eight have thus been taken, and the paper still holds good. No patent applied for.—*Exchange.*

IODIFORMOIL.—Klingmann in the *Mith. prakt. Derm.* prepares iodoform oil by shaking one part of iodoform with six parts olive oil for twelve hours and filtering. In this way a saturated solution of iodoform, clear and transparent, is obtained, containing two and one half to three per cent. of iodoform.

To Council Electors.

To an outsider such as I, it seems very strange that any one possessed of the capabilities of Prof. Shuttleworth should oppose the actions of those whom he must have known were his masters in authority, especially as it has yet to be shown that he wasn't anxious to retain his long filled position.

He is popularly credited with being a skilled diplomat in pharmacy matters, but in the present instance it is hard to harmonize such a reputation with the opposition he has invoked against the powers that be, as similar actions on the part of any other individual so placed, would at once be construed as suicidal to his personal interests.

Those who claim to be familiar with the personal characteristics of the Professor, are free in asserting that he is very tenacious of purpose, and adheres to his convictions, under opposition, with a pertinacity which the well known policy he has hitherto evinced cannot overcome.

It is generally believed, and with very good ground for such belief, that his opposition to the present Council, or at least to those who now represent its power, originated when a number of the present members first sought election, as we find the *Canadian Pharmaceutical Journal* of that period giving an indirect negative to the gentlemanly character and reputation of these gentlemen in a body. And ostensibly because they saw fit to associate for election purposes in issuing a circular in which they criticized the manner in which the finances of the College had been husbanded, and also because they opposed the right of his friend—a prominent wholesale druggist—to act in that capacity as a representative of the retail trade. The personal dislike which he seems to have entertained for Mr. Pearen, who was a well advertised if not prominent member of the new regime, may too have been a factor in generating an opposition which has since continued, and unfortunately for him, to his own hurt.

That all these things had an influence in promoting such an unfortunate antagonism, we are safe in assuming, but that they were not the sole cause is rendered very evident from the statement made by Mr. Shuttleworth at the late Council meeting, that "he was an old regime man." This short sentence as a statement, coming at such a time, and from such a source, is now looked upon as being an open and candid expression of the reason why his sympathies and support could not be given those members, who in position and commanding influence now form the new regime. Unhappily for the peace of the present Council, Mr. Shuttleworth was not the only one intimately associated with its doings, who was an old regime man. Messrs. D'Avignon and Sanders could also lay claim to the honor, and well have they sustained it; although a sad minority in point of numbers, they were well posted in Council routine, and failed not to make untenable, if possible, any position which the majority sought to take.

The majority of the Retail Druggists of Canada are now taking considerable interest in the Council news, which the advertiser on page 17 furnishes each month.

(To be continued.)

The Glucosides.

BY MR. J. C. UMNEY.

THE author defined glucosides as bodies which, under the action of ferments, of dilute acids, or in some cases of electricity, split up into one or more molecules of glucose, and a second non-saccharine substance. They were not esters, but ethers, of the glucoses, derived from the combination of the latter with other hydroxyl compounds. The classification still adopted was that introduced in 1867, namely, substances yielding one or two molecules of true glucose, phloroglucosides, compounds containing mannite, and glucosides containing tannin.

The author proposed to deal consecutively with the constitution, methods of preparation, decompositions, general characters and reactions, and occurrence in plants of glucosides, followed by an epitome of the features of the glucosides most interesting pharmaceutically.

CONSTITUTION.

Glucosides were compound ethers containing the group $C_6H_{12}O_6$, which was turned out on hydrolysis. Their constitution was by no means simple. Attempts have been made to synthesise them with partial success; phenol glucoside had been prepared, for instance. Naturally, glucosides were neutral bodies, though there were exceptions; some were acid, salicin was basic, and almost alkaloidal; the sugar was mostly glucose. In some cases sugars were separated, which were considered peculiar, but they were shown later to be ordinary dextro-glucose. The second body which results from the splitting up of the glucoside was, in some cases, a hydrocarbon, sometimes an alcohol or aldehyde or phenol, whilst in many cases the chemical nature of the decomposition product had not been correctly determined.

METHODS OF PREPARATION.

The author mentioned five methods as follows:—(1) Extraction with alcohol alone when the glucoside was in the free state with little tannin; (2) The lime process; (3) The litharge method, not always suitable, as it involved long boiling, which converted some glucosides into resinoid bodies; (4) Precipitation with subacetate of lead and separation of the glucoside from the lead compound formed; and (5) The mixed method adopted when the plant contains much tannin, or the application of sulphuretted hydrogen is contra-indicated. The author did not describe the processes, as they are well known, and detailed in the text books.

DECOMPOSITION.

The characteristic splitting up of these bodies could be accomplished by high temperatures, dilute acids, ferments, or, in some instances, by electrolysis. *Aesculin* and *salicin* could be split up at 170° and 240° C. respectively, while *arbutin* was unaffected. Others were decomposed by prolonged heating with water only. Of dilute acids, hydrochloric and sulphuric

were effective, but not equally so; saponin was readily split up by hydrochloric acid, but not at all easily by sulphuric acid. In some cases organic acids could affect the decomposition. Alkalies were also able to determine the dissociation, but when the alkali was strong the sugar first formed was decomposed further. With respect to the effect of ferments, it might take place at ordinary or elevated temperatures. Emulsin decomposed amygdalin with which it was associated in the almond, but also salicin and *aesculin*, though the effect was less complete than that of dilute acids. The ferment of saliva, myrosin (found in mustard seed), the bacteria of alcoholic and of lactic fermentation, were also effective dissociators of glucosides. The action of such bodies on a glucoside could not, however, be judged by analogy. *Salicin* was easily decomposed by emulsin, while benzoyl salicin could not be. Amygdalin was not decomposed by the digestive ferments, but its poisonous action was probably due to ferments producing putrescent decomposition in the intestines.

By the use of 450 Bunsen elements salicin had been decomposed, and amygdalin split up into benzoic aldehyde, prussic acid, and a small quantity of ammonia.

GENERAL CHARACTERS AND REACTIONS.

The majority of glucosides contained carbon, hydrogen, and oxygen; some included nitrogen in the molecule and a few sulphur. Many were difficult to isolate in a state of purity, but when thus obtained, crystalline. Glucosides were characterized by a marked insolubility in ether, and most, but not all, reduced alkaline copper solution on boiling. Some coagulated when the aqueous solution was heated with ammonia. They might be distinguished by the property of splitting up when heated with dilute acids, by the reduction of copper solution, by precipitation of molybdate of ammonia, slightly acidulated with hydrochloric acid. Many glucosides when treated with benzoic chloride gave very stable benzoyl compounds.

OCCURRENCE IN PLANTS.

It had been maintained the glucosides were the first assimilation products of the activity of chlorophyll. This theory had more recently received support from further research. Certain acids of a glucosidal nature did occur in unripe fruits, but disappeared in the process of ripening. The weight of evidence was in support of the view that adopted by Sachs that starch and not the glucoside must be considered the first assimilation product of plants. Liebig promulgated the theory that carbon dioxide is converted into carbohydrate by the condensation of the molecule with water, but Bayer formed the hypothesis that carbonic oxide is first reduced to formic aldehyde, six molecules of which condense to form sugar in the presence of some body not yet determined. He assumes that under favorable conditions the molecule of glucose may lose

three molecules of water forming a body isomeric with phloroglucinol.

The author had drawn up a table showing the approximate constitution of those glucosides already determined.

PHARMACEUTICAL GLUCOSIDES.

Aesculin obtained from the bark of the horse-chestnut (*Aesculus hippocastanum*), from the root bark of *Gelsemium semper-virens* and other plants. Soluble in hot water and alcohol, it crystallises in fine needles. The aqueous solution exhibits a fine blue fluorescence, which is destroyed by acids. It is decomposed by boiling hydrochloric acid, or by heat alone at 236° C. into glucose and *aesculetin*.

Amygdalin occurs in the bitter almond and in an amorphous modification in the cherry laurel. Woehler and Liebig showed (1837) that both bitter and sweet almonds contained emulsin, which in the presence of water is capable of splitting up the glucoside. The dissociation was affected by pure water alone at 150° C.

Arbutin was first discovered in 1852. It is found in many plants of the Ericaceae, and is always contaminated by methylarbutin. It crystallises in fine needles with a bitter taste, and when boiled with dilute acids splits up into hydroquinone and glucose; methylarbutin is resolved in methylhydroquinone.

Carminic acid was found not only in the insect (*Coccus cacti*), but in the leaves of *Monarda spec.* and a few other plants. Boiled with dilute sulphuric acid it separated into carmine red—a dark red mass, soluble in water and alcohol—and an unfermentable sugar.

Chinovin.—The *a* variety is obtained from cinchona barks, and the *B* from cupreas. By hydrochloric acid chinovin is resolved into chinovic acid, and a sugar $C_6H_{12}O_6$, which is dextrogyre and not fermentable by yeast. The work of Dr. Passmore upon *B*-chinovin had shown it to be a mixture of dextro-glucose and another body.

Coniferin was obtained from species of *Abies*, *Pinus* and *Larix*. By means of emulsin it can be resolved into sugar and another crystallisable body, and by the oxidation of this second substance (or of coniferin itself) vanillin was obtained.

Convallarin was obtained from the lily of the valley, where it was associated with convalamarin.

Crocin, the peculiar glucoside of saffron was split up by dilute acids into another coloring matter and sugar. The latter was dextrogyre, and had only half the reducing power of dextro-glucose.

Daphnin, isomeric with *aesculin*, yielded glucose and daphnetin or dioxy coumarin.

Digitalin.—The active constituents of digitalis were partly glucosidal. According to Schmiedeleberg, pure digitalin was only one constituent of the commercial article. Digitalcin was an amorphous yellow substance, soluble in water.

Frangulin, by the action of dilute acids, was hydrolysed into glucose and frangulic acid, probably isomeric with alizarin, and found to give the same reactions as emio-

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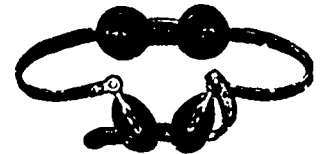
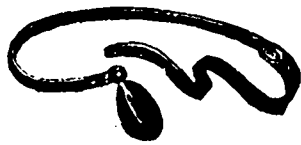
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In barrels, 50 and 25 pound boxes and 1 pound packages.

SEND FOR SAMPLES.

FOR SALE BY ALL JOBBERS.

The H. W. Jayne Chemical Co.,

FRANKFORD, PHILADELPHIA, PA.

din from rhubarb, with which it seemed to be identical.

Glycyrrhizin was originally stated to correspond to a tribasic acid containing nitrogen, but the identity seemed doubtful; in the liquorice root it existed in combination with lime. *Glycyrrhizin* was not decomposed by emulsin.

Hesperidin split up into dextro-glucose and hesperetin, an ester of phloroglucinol.

Myronic acid occurred in black mustard seeds. It split up by the action of myrosin (not by emulsin or yeast) into glucose, allyl sulphocyanide and potassium hydrogen sulphate.

Phloridzin was found in the root-bark of the apple, pear, and other fruit trees. By the action of dilute acids it was resolved into phloretin, and dextro-glucose, once supposed to be a peculiar sugar. Phloretin was an ester of phloroglucinol.

Ruberythric acid was obtained from madder root. It was noteworthy as the original source of alizarin into which, with glucose, it was resolved by boiling with dilute acids or alkalis. As a source of alizarin it had been displaced by artificial processes.

Salicin had been synthetically prepared. It was obtained from species of willow and poplar.

Saponin was met with also as quillain and senegin.

Solanin was the glucoside found in the fruits of *Solanum nigrum* and other species, and doubtfully in *Scopola japonica*. The glucoside also existed in the shoots of potatoes. It was only slightly soluble in water, alcohol and ether. *Solanin* was peculiar as containing nitrogen.

Strophanthin was stated by Fraser to be the active principle of strophanthus (in the extract of which he found 65 per cent.), but now regarded as doubtful. The aqueous solution froths when shaken.

Of glucosidal tannins many were still unknown, and very varying statements were made about them. They had been classified according to their decomposition products, and oxidation products, and this classification the author included in a table.—*Brit. and Col. Druggist.*

Literary Notes.

A NOVEL OFFER.

We have received a copy of the *Dominion Illustrated*, which is the only high class illustrated journal published in Canada. With the beginning of the present year it was enlarged to twenty-four pages weekly, and new and striking literary features have been added. It is profusely illustrated in the highest style of photogravure art, and is altogether a highly interesting journal and a credit to Canadian skill and enterprise. The publishers have inaugurated a prize competition for the current six months, which bears the stamp of originality. Six questions are published each month, and the material for answering them is found in the numbers for that month. Only subscribers compete, and the prizes, which number 100, exceed \$3,000 in value. The smallest is valued

at \$5, and the first is \$750 in gold. The publishers announce that any dissatisfied prize winner may exchange the prize for the cash value at which it is rated in the published list. As the *Illustrated* is not a "fake" journal it has every reason for keeping faith with subscribers. The publishers (The Sabiston Litho. and Pub. Co., Montreal) announce that on receipt of 12 cents in stamps (Canadian or American) they will forward to any address a sample copy with full particulars as to terms, etc.

* *

AN IMPORTANT ANNOUNCEMENT.

P. Blakiston, Son & Co., the Medical Publishers of Philadelphia, announce for early publication, "A Handbook of Local Therapeutics," being a practical description of all those agents used in the local treatment of disease, such as Ointments, Plasters, Powders, Lotions, Inhalations, Suppositories, Bougies, Tampons, etc., and the proper methods of preparing and applying them.

The diseases which chiefly require local treatment are those of the Respiratory Passages, Ear, Eye, Skin, together with certain general Surgical affections, including the Diseases of Women. In order, therefore, that the various uses of each remedy may be thoroughly set forth the following gentlemen have assumed the authorship:—Harrison Allen, M. D., Emeritus Professor of Physiology in the University of Penna.; Laryngologist to the Rush Hospital for Consumption; late Surgeon to the Philadelphia and St. Joseph's Hospitals. George C. Harlan, M. D., late Professor of Diseases of the Eye in the Philadelphia Polyclinic and College for Graduates in Medicine; Surgeon to the Wills Eye Hospital, and Eye and Ear Department of the Pennsylvania Hospital. Charles B. Penrose, M. D., Surgeon of the German Hospital; Instructor in Clinical Surgery, University of Pennsylvania, and Arthur Van Harlingen, M. D., Professor of Diseases of the Skin in the Philadelphia Polyclinic and College for Graduates in Medicine; late Clinical Lecturer on Dermatology in Jefferson Medical College; Dermatologist to the Howard Hospital.

Each remedy will be taken up in alphabetical order, and after a succinct description of their pharmaceutical properties, by Dr. George J. McKelway, will be considered with reference to the local treatment of the affections above outlined. The authors believe that the information contained in this work will not be found elsewhere. The activity in the various lines of special medicine is one of the most striking phases of the times, and has materially changed many of the older methods of treating disease by local means. The greater part of the literature which has appeared is not accessible to most physicians. The Handbook, it is believed, will be of value to general practitioners as well as to those who, like themselves, are especially interested in sub-divisions of the clinical field.

The work will form a compact volume of about 400 pages, arranged in a manner to facilitate reference and containing, besides the usual index, a complete index of diseases, that will greatly enhance its usefulness.

* *

No MORE COMPLETELY illustrated copy of the *Cosmopolitan* has ever gone out than that for April. Miss Elizabeth Bisland, always a bright and attractive writer, is fairly fascinating in her description of dancing, the oldest of the arts, and the illustrations charmingly interpret the article itself. The executive mansion, the "White House," always an object of interest to the people of the United States, and one of the first points to be visited by those who go to Washington, is described by Mr. George Grantham Bain, the Washington correspondent, while the interior is illustrated with many views taken specially for *The Cosmopolitan* by permission of the President.

Perhaps the feature which will appeal most strongly to literary people, is Brander Matthews' article on the Women Writers of America. Mr. Matthews' criticism should be read by every American woman who writes for the press, for magazines, or for the book publisher. Mrs. Cruger, Amelie Rives, and all the best known modern writers, come in for a touch of criticism. (Price 25 cents, *Cosmopolitan* Publishing Company, Madison Square, New York.)

McCOLLOM'S Rheumatic Repellant.

AN INTERNAL REMEDY FOR THE CURE OF
Rheumatism, Gout, Neuralgia, &c.

Has stood the most extreme and critical tests during the 17 years it has been extensively used, and has proved in thousands of instances, both in Canada and the U. S., to be the most reliable remedy known to effectually and permanently cure this class of diseases. Immense numbers of those benefitted testify to accuracy of these statements, and assert that no Drug Store is complete without it.

Having found the 2 oz. or sample size objectionable, from the quantity being insufficient to produce satisfactory result in extreme or chronic cases, we have decided to withdraw this size and in future only put up the 10 oz. or \$1.00 bottles.

Supplied to Druggists at \$7.50 per doz.

RHEUMATIC REPELLANT

Is prepared only by W. A. McCOLLOM, Druggist, Tilsonburg, and supplied at wholesale by Messrs. Evans & Co., J. W. Brayley, Montreal; Lyman Bros. & Co., Elliot & Co., Northrop & Lyman Co., Toronto; J. Winer & Co., Archdale Wilson & Co., Hamilton; London Drug Co., Kennedy & Co., London; Martin, Rosser & Co., Winnipeg, Man.

If you require Pepsin suitable for Solutions

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

It is the most active, convenient and economical.

It is a highly potent glycerine solution from the stomach, free from all suggestion of animal origin. Freely miscible with all the fluids or agents with which pepsin is, or should be combined in solution.

It has a definite standard of strength and can readily be adjusted to any required dosage, or to represent any given amount of the dried ferment.

Glycerinum Pepticum is free from alcohol, sugar or antiseptics and will keep well in all climates.

Samples sent gratis upon request. Supplied by wholesale dealers everywhere.

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NO CYLINDERS.

NO GENERATORS.

I have had one of your Founts for about one year. I am so well pleased that I would not be without it on any consideration whatever, knowing as I do its fine quality of drinks which are increasing my trade every day. I have run my Fountain all winter, which paid me well. I put them up hot or cold.

ROBERT WOOLFE.

Listowel, Feb. 14, 1890.

We contemplate buying another Fount for our second store. We were more than satisfied with Fount last season.

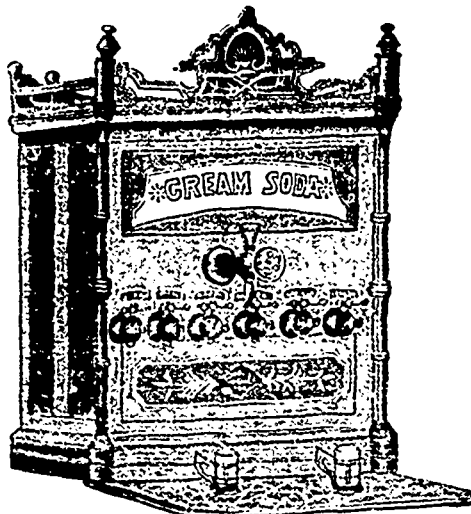
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We have got your Fountain running. It is just grand.

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Parry Sound, May 16, 1889.



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THERE IS NOT HALF THE LABOR.

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SPECIAL NOTICE. Having purchased and had assigned to me all the right and title of Black's Patent Ice Cream Soda, I hereby caution the public that the right to sell the above beverage can only be acquired from me, and any person acquiring it otherwise and selling it as a beverage will be prosecuted. Furthermore, I will give a reward to any person furnishing me with such information as will lead to the conviction of any person infringing on said Patent. Address

J. NELSON, Sole Proprietor, Clarksburg, Ont.

Or 458 Parliament Street, TORONTO.

British Columbia Notes.

The new Pharmacy Bill has passed the Legislature and now awaits the signature of the Lieutenant-Governor before becoming law.

The brick building on the corner of Fort and Government streets, Victoria, part of which was occupied by Geo. Morison, druggist, has been torn down, and is being replaced by a handsome five story brick block. Mr. Morison will occupy one of the stores in the new block when it is completed.

Business during the past month has continued good and the prospects for the summer are very encouraging.

Commercial Travellers.

The Commercial Travellers' Association of Canada has succeeded in obtaining the following concession from the corporation of Victoria, B. C.: The full amount of the license tax, \$50, which is now levied on commercial travellers, will be collected as prescribed by law, but a rebate of \$10 will be allowed bona fide commercial travellers who pay said license, making the net license fee \$10. This latter amount the said corporation have collected for years past, not merely from travellers representing foreign houses or Canadian houses outside of Victoria, but from local travellers as well. The \$50 tax, until it was thus reduced to \$10 again, was also collected from local travellers. The remission is secured not only to the members of the Commercial Travellers' Association of Canada, but to all genuine travellers.

A new idea for commercial travellers comes from far off India. A Calcutta railway official proposes to put on exhibition cars, to run over the various lines of railway, for the purpose of exhibiting samples of merchandise.

In Japan there do not exist at present any special regulations with regard to commercial travellers. Under the existing treaties no foreigners are allowed to travel in the interior of the country for purposes of trade, and at the ports of Tokio, Yokohama, Nagasaki, Hakodate and Niigata commercial travellers are allowed, in common with all other foreign traders, to pursue their calling within the limits of the settlements existing at these places, and are not obliged to pay fees or take out licenses.

Competition.

In order to ascertain the views of chemists throughout Great Britain as to which of the remedies for outward application had the largest and greatest popularity, *The Chemist and Druggist* instituted a post-card competition, each dealer to name on a post-card the preparation which had the largest sale and was the most popular with customers, and the publisher received

635 of these cards, with the following results:—

St. Jacobs Oil	381
Elliman's Embrocation	172
Holloway's Ointment	32
Alcock's Plasters	19
Bow's Liniment	7
Pain Killer	7
Vaseline	4
Cuticura	2
Scattering	8

Total

To Pharmacists.

LABEL plainly every article that goes from your store. Positively refuse to sell poisons to children. Do not let your customer put a price on your goods; do that yourself. Be firm, positive and polite. Take the standard drug journals; read them, yes, study them well. Buy nothing but high grade goods, let quality be first, last and always your consideration. Examine your drugs and chemicals to see that they are what the labels call for. See there are used the best prescription vials and corks, as they are in all respects much cheaper in the end. See that a good article of plain white paper for wrapping is kept in your store. Buy your goods for cash, sell for money. Keep sober, let cards and their associates alone, and we guarantee success.—*Drugs.*

Successful Collections.

In making collections be courteous, firm and persistent. The sale of goods is a dead loss unless the pay for them is collected. Don't get angry with the debtor, as this affords him the opportunity to delay payment, which his inclination may sufficiently prompt him to do, but press the point until successful. A stylish youth once owed a merchant a small bill which he was always promising to pay, but never did. One day while conversing with several friends, the merchant approached him in a friendly way to lend him a sum, just the amount of the bill saying, "I'm so much short, and want to raise some money." The young fellow hesitated, but had not the courage to allow his friends to believe he had no money, so the change was produced. Of course he saw the point, but never asked repayment of the loan.—*Mixed Stocks.*

TRADE journals, says the *Money Maker*, are even more indispensable to the manufacturing and wholesaling interests than to the retailer, if a comparison can be made. As an advertising medium the trade journal is the "short cut" to the retailer. A thousand dollars judiciously expended in the trade journals will reach the eye of more retailers in any given line than double the amount spent in daily or weekly newspapers, or even magazines. The daily papers would reach more readers, but not more dealers in the particular line sought. Then, too, the retailer looks upon his trade journal as a sort of "directory." If he wants any special line of goods not sold by his regular wholesale house, his first recourse is to his trade journal.

HUMPHREY'S

SPECIFICS. VETERINARY SPECIFICS.

SPECIAL PRESCRIPTIONS.

WITCH HAZEL OIL. MARVEL OF HEALING.

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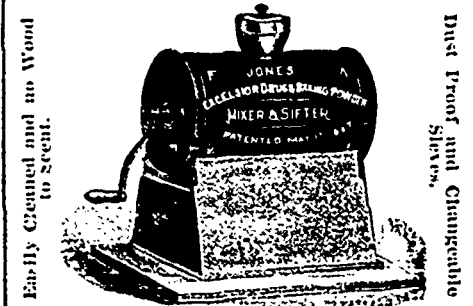
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Two Sieves, 40 and 100 mesh, with each Mixer, and valuable formulas for Baking Powder, Tooth Powder, Dyspepsia Powder, &c. Send for circular to sole Manufacturer and Inventor. AGENTS WANTED.

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WINDSOR, ONT. SAN FRANCISCO, CAL.

NEW YORK CITY.

We offer to the trade full lines of the following standard Pharmaceutical Products of our own manufacture, as well as many specialties not easily classified under any of the general heads, but which are fully described in our Price Lists and Catalogues, any of which will be mailed postpaid on application:

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Sugar, Gelatin and Pearl Coated, Tinted Granules. In bulk or boxed, with buyer's name.

FLUID EXTRACTS,

Elixirs, Wines, Tinctures, Solutions, Ointments, Cerates.

Syrups--Medicinal and Medicated.

Concentrated Liquors for Extemporaneous Use.

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Plain, Perfumed, Medicated; Its Preparations and combinations.

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In form of Fluid and Solid Extracts, Cordial, Pills, Granules, Capsules, etc.

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Caffeine Seidlitz--Very efficient headache remedy. Improved Bronchial Lozenges--Very salubre. Put up in bulk and in boxes. Sample sent upon application.

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Tonic Hypophosphites--Replaces trade-marked and proprietary syrups at half the price.

Stearns' Fluid Extract Myrica (Bay Rum Essence)--Highly concentrated, giving true odor of the Bay Leaf.

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Fluid Extract Cascara--Modified. Free from bitter taste. Full strength.

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Imperial Tooth Soap--The best dentifrice made. In colored lithographed hinge-top tin boxes.

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OUR COMMUNION WINE,

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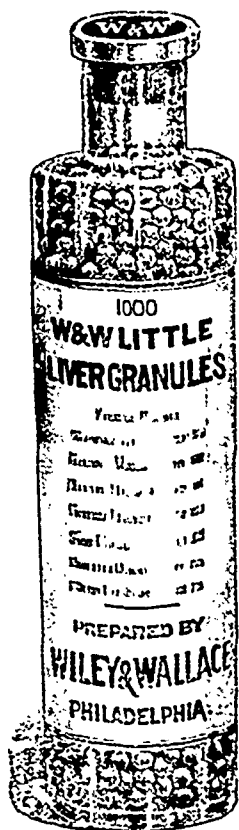
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1,000, 90 cents. 5,000, (one bottle) \$4.25. 10,000, (one bottle) \$8.00. If you wish to purchase in bulk, 25 in each, \$10.00. 1 gross in glass, 30 in each, \$7.50. 1 gross in glass, 25 in each, \$7.00. If you wish to purchase in bulk, 25 in each, \$7.00.

FORMULA.

Alain, 1-10 gr., Jalapin, 1-10 gr., Podophylin, 1-10 gr., Ext. Hyoscyamus, 1-20 gr., Ext. Sax Vom, 1-20 gr., Oleo Res. Capsid, 1-25 gr.



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- Dr. Wilson's Magnesia Compound, Hazard's Cattle Spi.
- Dr. Boyer's Galvanic Fluid, Dr. Fowler's Extract Strawberry, Dr. Fife's Worm Lozenges, National Pills.
- Egyptian Salve, Dr. Abernethy's Worm Candy, Freeman's Soothing Syrup.
- Freeman's Worm Powders, Freeman's New Don't-Use Pills, Dr. Lewis' Worm Syrup.
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It is well recommended by Physicians and others who have used it for freeing the Head of all Thick Mucus, and Clearing the Nasal Cavities. It is so simple, every Druggist should keep in stock, as it will sell and give great satisfaction.

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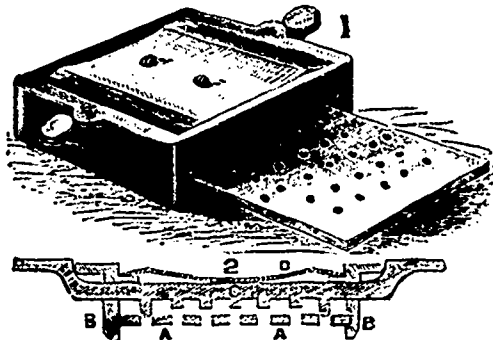
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SIMPLE, ACCURATE, DURABLE.

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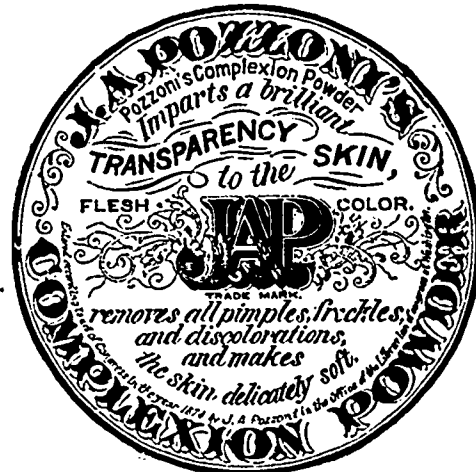
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The London Drug Co.

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.

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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.

Formulæ for Disinfectants.

BY G. S. CLUTE.

The following formulæ for disinfectants comprise most of the liquids and disinfecting powders on the market.

BROMO-CHLORALUM.

Alum (in lump).....	2 pounds.
Boiling water	2 quarts.
Aqua ammonia.....	q. s.
Muriatic acid.....	q. s.
Bromine.....	1 ounce.
Water.....	q. s.

Reduce the alum to a coarse powder and dissolve in the boiling water. Add to the solution five gallons of cold water, and stir; then add aqua ammonia to the mixture as long as a precipitate is formed, or until, after having stood a few moments, a very slight odor of ammonia will be perceptible. Allow the precipitate to settle, and pour off most of the water; put on fresh water again, stir up, allow to settle, and pour off as before; pour the precipitate upon a wet muslin strainer and drain out as much of the water as possible. Put the precipitate in a close vessel and add the bromine (taking care not to inhale the fumes of the bromine), then add just enough muriatic acid to dissolve the precipitate, and make up the measure with water to one gallon. A short time should be allowed after adding a portion of muriatic acid before adding more, so that it may have time to act.

CHLORALUM (ENGLISH.)

Chloride of aluminium.....	20 ounces.
Sulphite of lime.....	1 ounce.
Water enough to make.....	1 gallon.

BROMO CHLORALUM (TILDEN'S.)

Chloride of aluminium.....	13 ounces.
Bromine, sulphate of lime, etc.....	a trace.
Water.....	1 gallon.

ANOTHER (TILDEN'S.)

Bromine of aluminium.....	8 ounces.
Chloride of aluminium.....	16 ounces.
Boiling water.....	1 gallon.

CHLORIDE OF ZINC DISINFECTANT.

Muriatic acid.....	2 ounces.
Zinc in strips.....	q. s.
Water.....	1 pint.

Mix the acid with water and add strips of zinc as long as they will dissolve.

COUTARET'S WHITE FLUID.

Sulphate of zinc.....	1½ ounces.
Water, enough to make.....	1 pint.

A DISINFECTANT.

Sulphate of zinc.....	
Hyposulphite of sodium.....	
Sulphate of iron.....	
Muriatic acid, each.....	1 ounce.
Water enough to make.....	1 pint.

Mix and dissolve.

DARBY'S PROPHYLACTIC FLUID.

Permanganate of potassium.....	5 grains.
Sulphate of Potassium.....	150 grains.
Carbonate of potassium.....	1½ ounces.
Chloride of potassium.....	1½ ounces.
Water enough to make.....	1 pint.

DE WESSEY'S SOLUTION.

Ferrous sulphate.....	1 ounce.
Ferrous chloride.....	3½ ounces.
Zinc chloride.....	1½ ounces.
Water enough to make.....	1 pint.

DUNG & SON'S SOLUTION.

Ferrous sulphate.....	5 drachms.
Carbolic acid.....	7 drachms.
Water enough to make.....	1 pint.

SQUIBB'S SOLUTION.

Carbolic acid.....	135 grains.
Water, enough to make.....	1 pint.

SEELEY'S SULPHATE OF MANGANESE DISINFECTING SOLUTION.

Sulphate of manganese.....	2½ ounces.
Sulphate of iron.....	1 ounce.
Sulphuric acid.....	1½ ounces.
Muriatic acid.....	½ ounce.
Water, enough to make.....	1 pint.

DISINFECTING POWDERS.

The following are close approximates to the composition of some of the leading disinfecting powders on the market.

CARBOLATE OF LIME.

Lime (freshly slacked).....	10 ounces.
Carbonate of magnesium.....	½ ounce.
Marble dust or fine sand.....	½ ounce.
Carbolic acid.....	30 grains.

Mix the carbolic acid with the marble dust or sand, and then intimately with the other ingredients.

EXCELSIOR DISINFECTANT.

Sulphate of iron.....	10 ounces.
Common salt.....	6 ounces.
Sulphur.....	2½ ounces.

Powder and mix.

EGYPTIAN DISINFECTANT.

Fine sand or marble dust.....	12 ounces.
Lime.....	2 ounces.
Carbolic acid, crude.....	1 ounce.

Mix the acid with lime, and then thoroughly with the sand or marble dust.

PHENIX DISINFECTANT.

Powdered clay or earth.....	9 ounces.
Sesquichloride of iron.....	1½ ounces.
Lime.....	1 ounce.
Carbolic acid.....	30 grains.

Mix.

LE DOYEN'S DISINFECTANT.

Nitrate of lead.....	2½ ounces.
Water, enough to make.....	1 pint.

LIQUID OF MANHATTAN CHEMICAL CO.

Ferrous chloride.....	1½ ounces.
Chloride of zinc.....	4½ ounces.
Water, enough to make.....	1 pint.

MATTENHEIMER'S DISINFECTING FLUID.

Sulphate of iron.....	1 ounce.
Carbolic acid.....	7 drachms.
Water, enough to make.....	1 pint.

MONSELL'S DISINFECTING SOLUTION.

Ferri-sulphate (sub-sul. of iron).....	7½ ounces.
Ferric nitrate.....	1½ ounces.
Water, enough to make.....	1 pint.

PHENOL SODIQUE.

Carbolic acid.....	1½ ounces.
Concentrated lye.....	q. s. to neutral'e
Water, enough to make.....	1 gallon.

PHENOL SODIQUE, ANOTHER.

Crude carbolic acid, neutralized with lye.

FARWELL'S DISINFECTANT.

Ferrous sulphate.....	2½ ounces.
Carbolic acid.....	5 drachms.
Water, enough to make.....	2 pints.

GIRONDIN DISINFECTANT.

Sulphate of zinc.....	4½ ounces.
Sulphate of copper.....	½ ounce.
Sulphate of lime.....	½ ounce.
Water enough to make.....	1 pint.

GRANTVILLE CARBOLIC ALKALI.

Carbolic acid.....	½ ounce.
Caustic potassa.....	150 grains.
Water, enough to make.....	1 pint.

—Rocky Mountain Druggist.

The London Drug Co.

WHOLESALE DRUGGISTS,

IMPORTERS AND MANUFACTURING CHEMISTS,

LONDON, - ONTARIO.

WE OFFER, OF OUR OWN MAKE:

- Citrate of Magnesia.
- Raspberry Citrate of Magnesia.
- Spirits Aetheris Nitrosi Pur.
- Spirits Ammonia Arom. distilled.
- Fluid Extracts, a full line.
- Chlorodyne, from a well tried formula.

POWDERED DRUGS

OUR OWN GRINDING:

- Cream Tartar, bbls, kegs and boxes.
- Pure Spices of all kinds.
- Insect Powder, etc., etc.

—AGENTS FOR—

- Butler's Confectionery.
- Gray's Syrup Red Spruce Gum.
- Major's Cement.
- Eugene's Corn Salve.
- Kern's Rheumatic Cure.
- Warrick's Real Flavors.
- Sloan's Indian Tonic-Genuline.
- William's Crown Sarsaparilla, etc.

THE LONDON DRUG CO.
LONDON.KERRY, WATSON & CO.
MONTREAL.

SOLD TO THE TRADE BY

TORONTO { Lyman Bros & Co. Evans Sons & Co.
Northrop & Lyman.
Elliot & Co. T. Millburn & Co.

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

HAMILTON—Archdale Wilson & Co. J. Winer & Co.

LONDON—London Drug Co. C. McCallum & Co.
Jas. A. Kennedy & Co.

ARAVENA
MILK FOOD

FOR INFANTS is the safest, cheapest and nearest to Mother's Milk of any Food made. Ask your Druggist.

THE IRELAND NATIONAL FOOD CO. LD. TORONTO

PREPARED BARLEY,
PREPARED GROATS,
GLUTEN FLOUR,
DESICCATED WHEAT,
WHOLE WHEAT FLOUR,
RYE AND BARLEY MEAL.

The above Hygienic Foods are manufactured and guaranteed fresh by us.

DRUGGISTS SUPPLIED.

The Ireland National Food Co. Ltd., Toronto.

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. **Retails 5 cents 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.

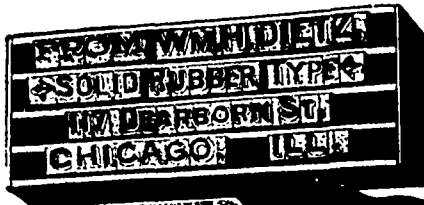
LONDON—London Drug Co., J. A. Kennedy & Co., McCallum & Co.

HALIFAX—Brown & Webb.

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 :

AAAaaa BBBbbb 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.

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, MICH.

CANADIAN DRUGGIST.

WM. J. DYAS, EDITOR AND PUBLISHER.

APRIL 15th, 1891.

A SPECIAL meeting of the Druggists' Association of the Counties of Middlesex and Elgin is called for April 16th at St. Thomas, for the election of officers and nomination of Candidate as member of the Council.

* *

BRIMSTONE has greatly advanced in price being worth more than double our quotations of last month, particularly the brimstone that comes from Sicily, which is very largely used in this country for the manufacture of sulphuric acid, and consequently the price of this latter article has also advanced. There is some talk of a combination among the manufacturers of sulphuric acid in the United States, which would probably be as formidable as that formed by the copper men.

* *

THE Council of the College took up the matter of special legislation to permit Reuben A. Mason, of Markham, and Jos. A. Brown, of Tottenham, to run drug stores without passing the examination, so energetically, that Mr. Mason quit and Mr. Brown is likely to be defeated in the House although his bill passed the committee. The college solicitor, Vice-President J. J. Hall, and Councillor McKenzie attended the meeting of the Private Bills Committee on behalf of the Council. It appears that Mr. J. A. Brown produced a letter from a member of the Council, Mr. W. B. Sanders, advocating his claims for a special Act.

* *

IN our last issue we noted the fact that these two applications were to be made to the Ontario Legislature to enable the respective applicants to practice pharmacy in the Province of Ontario. The case of Mr. Brown came before the Private Bills Committee on March 26th and had for its purpose the suspension of the Pharmacy Act in the case of Joseph Alfred Brown, of Tottenham, and to enable him to register as a member of the Ontario College of Pharmacy. The bill was introduced in the Assembly by Mr. Davis. The Pharmacy Act which was placed on the statute book in 1884, provided that all persons engaged in the drug business for three years previous to 1871 should on registering be licensed to continue that occupation. Mr. Brown, of Tottenham, used to keep a general store in Kanessville before 1871, in which he kept certain drugs and medicines. He neglected to register, however, as the law required. Recently he was fined for following the apothecary's occupation without a license. Hence the present application to the Provincial Parliament. Mr. Brown did not quite satisfy Mr. Gibson, the Provincial Secretary, who presided, or the committee as a whole, of his fitness for receiving a special license by Act. Mr. E. T. Malone, of Toronto,

appeared as counsel for the Pharmacy College, and opposed the bill. Dr. McKay, of Oxford, who is a member of the committee, submitted for Mr. Brown's consideration the following simple prescription, taken from a recent set of examination papers:—

Ol. ricini dr. vi.
ol. terebinth..... .dr. ss.
sp. ammonia aromat .. .dr. i.
pulv. acacie q. s.
aqua adoz. ii.

M. Ft. mist. coch. dimid. min. om. tert. hora. sum.

Mr. Brown failed to interpret the prescription. The bill, which was in charge of Mr. Davis, however, passed the committee by a majority of three or four. The bill came up for its first reading on April 10, but up to time of going to press had not reached its second reading. It is anticipated that there will be an animated discussion when it comes up. Mr. Malone, solicitor for the Ontario College of Pharmacy, is looking after the bill in the interests of the College.

Ontario College of Pharmacy Notes.

THE renewal fee of four dollars for carrying on business as druggist in this province is payable on or before the first day of May.

* *

THE forty-first semi-annual examination will be held at the College, commencing Monday, May 11th. Candidates who intend presenting themselves for examination should send their names, accompanied by the fee of ten dollars, not later than April 27th. Certificate of having served the full term of three years with a qualified druggist must be enclosed. Form of application may be had from the registrar, I. T. Lewis, Esq.

* *

IN accordance with the recently enacted by-laws the election of the Council of the Ontario College of Pharmacy will be held on July 1st. The elections will be held in accordance with By-law 10, which provides for the division of the province into thirteen districts, as follows:—

ELECTORAL TERRITORIAL DISTRICTS.

No. 1—Glengarry, Prescott, Stormont, Russel, Dundas, Carleton, Grenville, Lanark and Renfrew.

No. 2—Leeds, Frontenac, Addington, Lennox, Prince Edward and Hastings.

No. 3—Northumberland, Peterborough, Durham, Victoria and Ontario.

No. 4—Following Wards in Toronto: St. George's, St. Lawrence, St. John's, St. James', St. Thomas', St. David's and St. Matthew's.

No. 5—Following Wards: St. Paul's, St. Patrick's, St. Stephen's, St. Mark's and St. Alban's.

No. 6—Simcoe, York (except Toronto), Haliburton, Districts of Algoma, Parry Sound, Muskoka, Thunder Bay, Nipissing and Rainy River.

No. 7—Peel, Wellington, Halton and Dufferin.

No. 8—Wentworth, Lincoln and Wel land.

No. 9—Haldimand, Brant and Waterloo.

No. 10—Norfolk, Oxford and Perth.

No. 11—Elgin and Middlesex.

No. 12—Huron, Grey and Bruce.

No. 13—Lambton, Kent and Essex.

Nominations may be made after the 1st day of May, and must be mailed so as to reach the registrar not later than thirty days previous to the election. A candidate must receive the nomination of at least three duly qualified members of the college, who must be resident in his division.

Reciprocal Medical Certificates.

The Quebec College of Physicians and Surgeons has been making efforts to get the certificates of Canadian physicians recognized in England as warrants to practise in that country, in reciprocity for admitting physicians with British certificates to practise in Canada. But the project has not been successful. It seems that Great Britain would recognize Canadian certificates, but the certificates of a province are not acceptable. As Dominion certificates are not issued the scheme falls through.

Smuggled Opium.

United States officials at Lubec, Me., acting upon information furnished from the local custom house have discovered at that point proof of one of the most extensive and successful series of opium smuggling operations in the history of the eastern department. David Wilbur Wood, now in jail at Boston charged with having attempted to land in that city fifty cases opium on which no duty had been paid, is alleged to be at the head of the band of smugglers which has been operating at that point for some years. Wood confessed at the time of his arrest in Boston to having smuggled the fifty boxes of opium over the line from Quebec. His base of operation was Lubec. It is just 800 feet from that town to Canada, and those 800 feet across the Campbell's narrows. There is no adequate protection here from smugglers, and it is asserted that in one year Wood has brought over the line 3,000 pounds of opium, the duty on which would be \$35,000. This is the sum which in a year only Uncle Sam has lost, and the Chinamen of Boston and New York have gained, for the opium was almost all sold to those people. Wood's system was this: With his young and beautiful wife he would leave Lubec about once in four weeks, and going to Eastport, there take steamer for St. John, the nearest Canadian port, from there going west. He was always accompanied by four large trunks, none of which he ever brought back with him. These were landed on the return trip at St. Stephen, an unprotected Canadian port, and from there transported in the night to an island off Lubec, where the headquarters of the smugglers were.—*Paint, Oil and Drug Review*

Beeman's Pepsin Chewing Gum

THE LATEST NOVELTY.

We have originated and put on the market a novelty, --PEPSIN GUM.



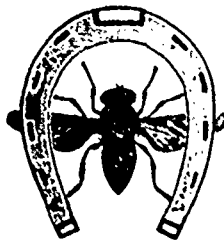
The only Chewing Gum containing Pepsin ever placed before the public. Each tablet contains a grain of pure pepsin, is a delicious remedy for Dyspepsia and Indigestion, and the best Chewing Gum ever manufactured.

Put up in 5 cent packages and 15 cent boxes, especially designed for the Drug Trade.

Samples sent on application Address

BEEMAN CHEMICAL CO.

Originators and Manufacturers,
CLEVELAND, OHIO.



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.

Black's Patent Cream Soda Fountains

MANUFACTURED BY THE PATENTEE.

These Fountains are now in use all over the Dominion, and their popularity is increasing as their merits become known.

A pure, healthy, foaming beverage is produced without the use of gas, and when gas is abolished the profit on the drink is increased 25 per cent.

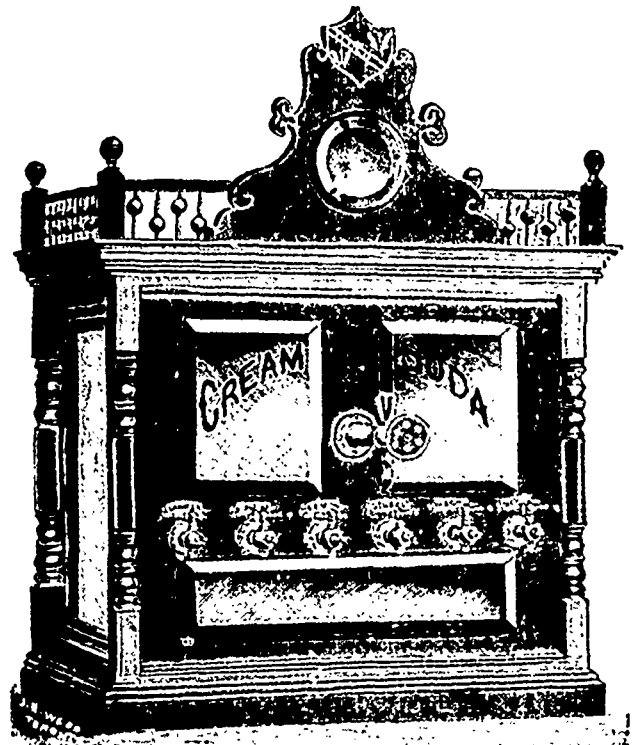
The Fountain, as shown in the accompanying cut, is a new design for the coming season. It is substantially built, and the panels in the front and ends are heavy bevelled plate mirrors, which set off a fountain like silver and are no trouble to keep clean.

It is by all odds the best and most attractive Fountain of the kind ever built, and will be sold at prices which defy competition.

Black's Patent Receipt goes with each Fountain, which I hereby guarantee the free use of against all interference.

Send for circulars and prices and address all communications to

J. STONEHOUSE, Manufacturer's Agent,



509 1/2 Yonge Street, Toronto.

Pharmaceutical Hygiene.

ALTHOUGH pharmacists perpetually immersed in the drug-laden atmosphere of the shop or warehouse, become inured to the pronounced odor of their surroundings, so perceptible to the outsider, it by no means follows, that because they do not perceive by their senses the peculiar properties of the air they breathe, that it is therefore without physiological effect upon them. It is worth considering for a moment what may be the ultimate influence of the atmosphere of the pharmacy upon the health of the pharmacist. When it is necessary to manipulate for a more or less prolonged period such powerful bodies, as, for instance, aloes or podophyllin, the action of these is distinct and unmistakable. It would be interesting to learn, if possible, how far the exhalations of the less active drugs generally, the vapors of the pharmaceutical laboratory, and the dust thrown off in disintegrating and mixing the various ingredients employed in medicine may affect the health of those employed in the calling. In manufacturing laboratories it is well-known that dental caries is generally prevalent among the members of the staff, attributable to the frequent prevalence of nitrous and other acid fumes; in drug mills it is found necessary to protect the workmen from the effects of the fine powder suspended in the atmosphere by supplying them with respirators for the mouth and goggles for the eyes. Further, during the distillation of certain essential oils and analogous substances, the minute trace inhaled by those who are conducting the process is not without a very marked action on the bodily secretions. If such results are observed by those working on the large scale, the inference follows that sensible, if less pronounced effects, must ensue on the small scale. Moreover, it must be borne in mind that in manufacturing operations, those employed are rarely in direct contact with their work and its exhalations for more than ten hours at a stretch; whereas, the retail pharmacist, as a rule, absolutely lives in in the atmosphere of his business. This is a matter which would seem to be worth considering from the point of view of the pharmaceutical neophyte; it is quite possible that some slight, almost imperceptible constitutional weakness, might, under the circumstances of confinement in a drug-laden atmosphere, become developed into a sufficiently serious chronic ailment. To the constitutionally robust, however, we do not suppose that the air of the pharmacy could be regarded as vitiated. In compensation for some slight personal discomfort or occasional malaise which such might endure, it is probable that they are surrounded by a more or less germicidal zone, and appearances seem to indicate that pharmacists enjoy a greater immunity from zymotic diseases than is possessed by the public at large.—*B. and C. Druggist.*

Sugar added to ordinary ink forms a good copying ink.

A fine colorless varnish may be obtained by dissolving 8 ozs. of gum sandarach and $\frac{1}{2}$ ozs. of Venice turpentine in 32 ozs. of alcohol by a gentle heat. Five ozs. of shell-lac and one of turpentine, dissolved in 32 ozs. of alcohol by a gentle heat, give a harder varnish but of a reddish cast. To these the solution of copal is undoubtedly preferable in many respects. This is effected by triturating an ounce of powder or gum-copal, which had been well dried by a gentle heat, with a drachm of camphor, and, while these are mixing together, adding by degrees, 4 ozs. of the strongest alcohol, without any digestion. Between this and the gold varnish there is only this difference, that some substance that communicate a yellow tinge are to be added to the latter.

THE ADVERTISER ABROAD.—A notice prominently inserted upon the front page of our Dutch contemporary, the *Pharmaceutisch Weekblad* illustrates the peculiar ideas upon the subject of publicity entertained by some Continental papers, and furnishes a reason, perhaps, for the backwardness of so many technical and commercial Continental journals. The notice runs as follows:—"Notice.—In consequence of the peculiar manner in which Scott's emulsion is being advertised (after the manner of hop-bitters) by illustrations and pamphlets distributed in the public streets, advertisements recommending Scott's emulsion to pharmacists and medical practitioners will henceforth be refused admission in this journal."

Dr. Nencki, of Berne, has come into prominence of late as the reputed discoverer of "toxalbumen," a product of the cultivation of the tubercular bacillus. Dr. Nencki has treated consumptive patients by injections with this fluid; and the therapeutic value of toxalbumen has been thoroughly established. It is not known whether Dr. Koch's lymph and Dr. Nencki's toxalbumen are similar. Dr. Nencki is, however, about to publish a detailed account in French and Polish of his discovery.

Originally the peach was a poisonous almond. In older times its fleshy parts were used to poison arrows, and was for this purpose introduced into Persia. The transportation and cultivation, not only removed its poisonous properties, but produced the delicious fruit which we now enjoy in its season.

Fine Para rubber is likely to go to \$1.00. One of the largest importers in Boston says: "With the amount which this syndicate has in hand, and with the co-operation of the Brazilian government, the manufacturers of rubber goods in this country are confronted with possibilities which have never before been presented."

A fire on April 13th damaged the drug and stationery stock of F. W. Meek, Strathroy, Ont. Loss covered by insurance.

The Chinese are said to be the most ingenious in their advertisements. They make use of their deformities, even. "The Celestial Cook-shop of the pox-marked Wang," "The Celebrated Eel-pie shop of heavenly beauty," are samples of oriental enterprise.

Wanted

AN assistant, 3 or 4 years experience. Send reference. Apply to C. J. Exon & Co., Winnipeg, Man.

Miscellaneous.

DRUG CLERKS—A practical course in Pharmacy, Materia-Medica and Chemistry by mail, for one dollar per year. Hundreds have enlisted. Address for particulars, "Ricinus," care CANADIAN DRUGGIST, Strathroy, Ontario.

For Sale.

HANDSOME Tufts' Soda Water Fountain, with two copper cylinders. A great bargain for spot cash to anybody who wants a Soda Water Apparatus. Cost over \$1200. Address, Box 231, Hamilton.

ONE of the best Drug Businesses in Western Ontario. Stock, etc., good, about \$2400. This chance is worthy of the attention of anyone desiring a nice, clean, profitable, established business. Address "Atropia," this office.

DRUG Business for Sale in a good live town of 3000 in Western Ontario. Established ten years, good trade, satisfactory reason for selling. Enquire of Archdale Wilson & Co., Hamilton, Ont.

FOR SALE or to exchange for anything saleable and of equal value: 2 large iron mortars, 3 large wedgewood mortars, 1 brass beam scale, 1 pr. scales, 1 large three story engraved show bottle, 1 pair small two story show bottles, also a few 4, 6 and 8 oz. blue jars. Address, Box 206, Cobourg.

ADVERTISE

—IN THE—

London Free Press

ONLY MORNING PAPER
WEST OF TORONTO.

Advertising rates and sample copies
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FREE PRESS PRINTING COMPANY,

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MONTREAL,

Proprietor of the following Specialties:

Father Mathew Remedy,

Dr. Sey's Remedy,

Persian Lotion,

Indigenous Bitters,

Audette's Hair Promotor.

Fels & Co's Toilet Soaps

MADE BY
FELS & CO.,
PHILADELPHIA.

ARE UNIQUE IN QUALITY,
BEAUTY OF FINISH,
STYLE OF PACKAGE AND
VARIETY.

They are unexcelled by those of any other manufacturer, and
at less price, (quality considered.)

For information correspond with

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 profit. 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 pancreaticized, 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.

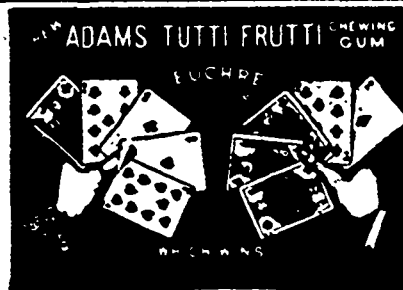
Soliciting the favour of your orders to your Wholesale House, we are

Yours respectfully,

BROWN & WEBB,

February, 1891.

HALIFAX, N. S.



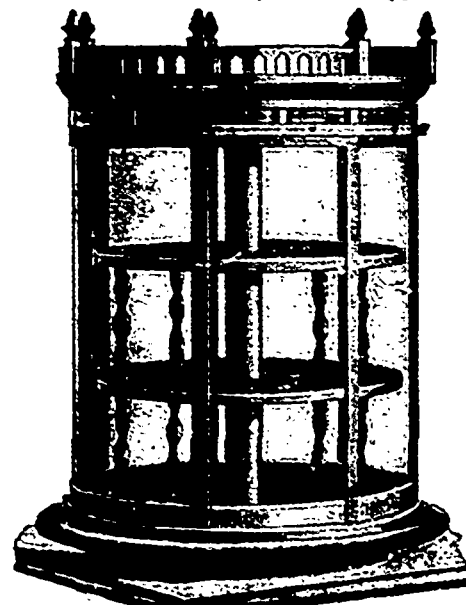
ADAMS & SONS

TUTTI-FRUTTI CHEWING GUM.

It is the fastest 5 cent 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, 1859, and other Patents applied for.

It is round, 42 inches high, 31 inches in diameter. The bent glass are double strength French, 12x28 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.

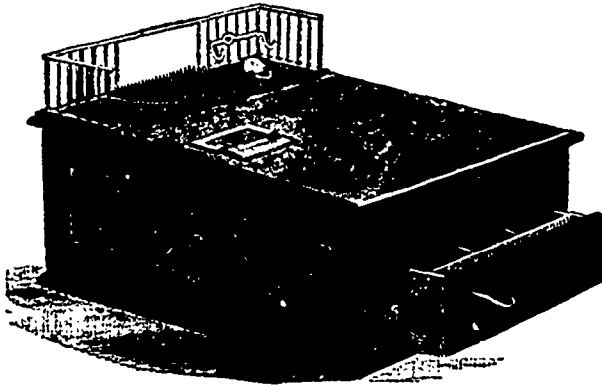
Price \$28.00.

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

SEND FOR CIRCULAR.

CURTIS GODDARD, ALLIANCE, OHIO.

THE CASHIER.



The Greatest Success of All.

No argument should be needed to convince you, a business man, of the necessity and very great advantage of keeping a correct account of your daily cash receipts.

Which is **THE BEST** Cash Register, is the question?

The "**CASHIER**" is not a high priced machine, but is within your reach. It is very simple in use; gives a perfectly correct and separate detailed account of each salesman's daily sales and receipts, shows amounts received on account, and enables the owner (and him only if desired), to know exactly what each salesman has done on each day. It prevents mistakes, and discovers them if made; takes care of the cash, and puts the owner in the way of stopping any leakage that may be occurring (unknown to him), in his cash drawer.

ALL FOR \$45.00.

Your order is solicited, and when received shall have prompt attention.

Address—**GEO. F. BOSTWICK,**
24 West Front St., TORONTO.

A New Worm Remedy!

DAWSON'S CHOCOLATE CREAMS.

The most pleasant Worm Medicine ever offered to the public, being in the form of a Chocolate Cream.

Children Never Refuse Them.

These goods are sure to have large sales, not only on account of their being extensively advertised, but also that one sale is certain to make another.

SOLD BY ALL WHOLESALE DRUGGISTS AT \$1.75 PER DOZ.

Wallace Dawson,
MANUFACTURING CHEMIST, - MONTREAL.

DO YOU USE BOTTLES?

WE manufacture **GREEN GLASS BOTTLES** of all kinds, and have moulds for Plain Bottles, similar shapes to the leading patent medicines sold in the Canadian market. Why not put up your own Sarsaparilla, Liniments, Soothing Syrups, Bateman Drops, Ginger, &c.?

We make **LETTERED PRESCRIPTION BOTTLES** at a Low Price, and make no charge for lettering.

We make **HOMEOPATHIC VIALS**, selected glass, carefully made and annealed.

OUR PRICES ARE LOWER

Than charged by other manufacturers supplying your market. We have low rate freight to Canadian points. Write to us.

DEAN, FOSTER & CO.,

Glass Manufacturers, - - 120 Lake St. Chicago, Ill.

Notes on Practical Pharmacy.

BY JOSEPH W. ENGLAND, PH. G.

The following notes on practical pharmacy have been the result of the writer's experience, mainly in the direction of preparation of officinal galenicals. The question as to how far a pharmacist is justified in going in an alteration or modification of an officinal formula, is, I think, best answered in this way: To the extent in which there is no alteration of therapeutical action, diminution in strength, nor decided change in obvious physical properties. It goes without saying that the therapeutical activity of the drug should remain unchanged or else the preparation will not represent the drug from which it is made, and that the strength should be maintained or else unreliability will result. Just to what extent the physical character of a preparation may be modified is dependent upon the circumstances of each special case; as to whether the pharmacopoeial process is particularly faulty, or whether it will not yield the results claimed for it, or whether it can be improved without cost to its therapeutical value and strength of drug.

Compound Chalk Powder.—This new officinal powder, for the extemporaneous preparation of chalk mixture, can be improved in its making by adding oil of cinnamon directly to the powder, and making the mixture up with water, as needed. To each troy ounce add 4 minims of the oil of cinnamon. Criticism has been made upon the large amount of sugar in this powder—one half. As the mixture is most largely used for diarrhoea or intestinal relaxation, accompanied with acidity often the result of food fermentation, the use of any sugar would seem to be therapeutically objectionable, as it merely increases the fermentation. A much better plan would be to replace all the sugar with powdered acacia. Further, in view of the mild astringent influence of cinnamon water, it is better to make the mixture up with all cinnamon water instead of equal parts of it and water, as directed by the U. S. P., '90. Save the use of a small quantity of syrup ($\frac{1}{16}$), the British Ph. recommends the former.

The officinal mixture contains 100 grains of powder to the fluid ounce. It is too weak and should be, at least, 2 drachms to the fluid ounce.

Some physicians use chalk, powdered cinnamon, acacia and water. This does not make as elegant a preparation as the officinal, but the tannic acid in the powdered cinnamon adds greatly to its therapeutical value.

Weighing Iodine.—It is, of course, inadmissible to weigh iodine directly upon metallic pans, and paper decomposes so quickly on contact with it, that the pans underneath are also attacked. In the absence of glass or horn pans, the best substitute is paraffin paper.

Sodium Bromide.—Through a prominent firm of manufacturing chemists, I have learned of an apparent inconsistency

in the percentage of sodium chloride permitted by the present Pharmacopœia in this compound. Under bromine the officinal maximal limit of free chlorine is 3 per cent., while under sodium bromide the maximal limit of sodium chloride is also 3 per cent., which, of course, is inconsistent. The error probably arose in following too closely the German Pharmacopœia, which makes the maximal limit of chloride in NaBr 3 per cent. But no notice was taken of the fact that American bromine always contains more free chlorine than German bromine, and, since the manufacturers have no practicable method of separating the chlorine in its entirety, the maximal limit of chloride in sodium bromide should be made not less than 5 per cent.

Wine of Antimony.—Physicians complain that the officinal wine of antimony is entirely too weak in tartar emetic. The first editions of Pharmacopœia made it 4 grains to the fluid ounce. The present editions makes it 1.8 grs.; a reduction of 55 per cent. The writer has furnished a satisfactory preparation by averaging the two extremes and making it 3 grains to the fluid ounce.

Ammonia Water Containers.—The best methods for preservation of ammonia water in containers that the writer has found is a common cork, covered with a piece of cheese cloth, and this covered with a piece of paraffin paper. An ordinary glass stopper is totally insufficient to prevent some of the vapor from escaping, while the dark coloration, produced by contact of the ammonia with cork tissue alone renders the use of corks objectionable.

Spirit of Camphor.—The officinal dilution in alcoholic strength of 20 per cent., with water, is inadmissible for the reason that when it is prescribed with volatile oils, turpentine, soap liniment, etc., as is often done in making stimulating liniments, there is precipitation of camphor, rather, a deficiency in the amount dissolved that would have remained in solution had the spirits of camphor been made with strong alcohol, as in the U. S. P. '70 formula.

Spirits of Peppermint and Spearmint.—The officinal formulae of these two preparations can be improved by macerating the herbs with alcohol, filtering and dissolving the oils in the filtrate. It is needless to say that filtration without the presence of dissolved oils is much more rapid than with their presence. Turbidity in these spirits, arising from undissolved oils or more probably from traces of resinified oil, can be removed by agitating the liquid with long narrow strips of a sheet of filtering paper and filtering. Some times the addition of a small quantity of precipitated phosphate of calcium is also necessary.

Compound Tincture of Lavender.—This preparation which has been very largely replaced by the increasing popularity of compound tincture of cardamom, can have its officinal formula improved by exhaust-

ing the drugs with the menstruum first, and then dissolving the volatile oils in the percolate. By this means the drugs are more readily exhausted and the preparation more quickly made.

Solution of Magnesium Citrate.—For causing effervescence, a very elegant substitute for the acrid potassium bicarbonate is Merck's sodium bicarbonate "in crusts." It gives a pleasant saline taste to the preparation, instead of the usual bitter, acrid one.

Compound Syrup of Hypophosphites.—Glycerin in the proportion of two fluid ounces to the pint greatly increases the therapeutical value of this preparation.

Ammonium Carbonate.—Therapeutists agree that the diffusible stimulant action of ammonium carbonate is best represented in the hard clearly-crystalline variety, and that the effloresced product is for practical purposes therapeutically valueless by comparison.

This is why many physicians in their prescriptions specify the "clear" or "crystalline" variety. They have found the effloresced powder valueless.

Why ammonium carbonate effloresces on exposure to air is easy of explanation when we remember its chemical composition of acid carbonate and carbamate—a dehydrated normal carbonate—and that the latter readily absorbs water and carbonic acid gas (from the air) to become an acid carbonate.

How best to prevent this change has always been a most difficult question. For this purpose I have been using for the last five or six months an expedient which has answered admirably. It consists simply in placing medium-sized lumps of the salt in a museum or fruit jar (glass top), preferably upon a porcelain or glass support, to keep them from touching the bottom of the container, and then adding a small quantity of stronger ammonia water and closing. The ammonia gas neutralizes the carbonic acid gas in the air of the container, and the salt remains hard and densely crystalline. I here present for inspection some ammonium carbonate over four months old preserved by this method. —*Amer. Journal of Pharmacy.*

THE NEWEST THING IN SEALING-WAX.—Visitors to Paris, says a correspondent there, may have noticed some time since in the windows of fashionable stationers rows of sealing-wax of all hues and shades, and ranged in order like the colours of the spectrum. It appears that a meaning attaches to each of these colours. Thus, white sealing-wax means a proposal of marriage; black, a death; violet, condolences; invitations to dinner are sealed with chocolate colour; vermilion is used for business letters, ruby colour by fortunate lovers; green means hope; brown, melancholy (derived possibly from brown study); blue, constancy; yellow, jealousy; pale green conveys a reproach; pink is used by young ladies, and gray between friends. —*D. and C. Druggist.*



LIFE,
GROWTH
—AND—
BEAUTY
FOR THE HAIR.

LUBY'S PARISIAN HAIR RENEWER

AS a dressing for Ladies' and Gen-
tlemen'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 bit with
counterfeits. We cannot advertise counterfeit goods.
But the original and genuine we will advertise, and
well, 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,

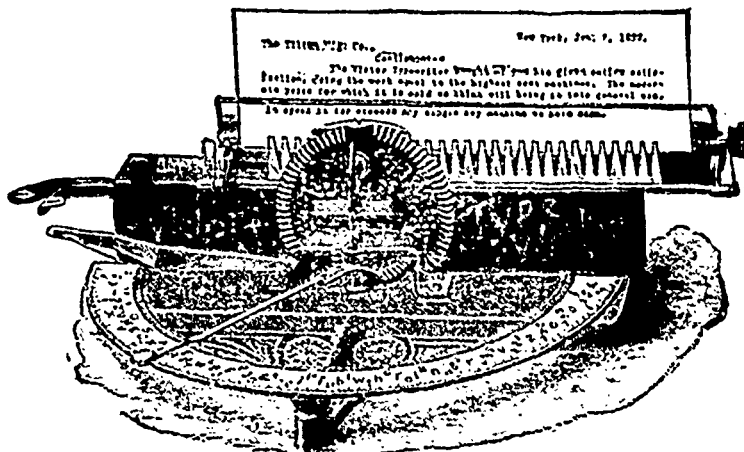
Eureka Chemical Co.,
10 & 12 Michigan Ave.,
DETROIT, MICH.



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 GEO. 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 mat-
ter 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 Rise and Fall of Business—
Purchasing Stock, Factors of Success—How to Obtain Credit—Market 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—Part-
nership and its Advantages—Business and Social Intercourse—Proper Investment of Profits—
Insolvency, its cause and Prevention—Qualifications Necessary to Insure Success—Merchandise
Examples—Expenses of Doing Business—Vocabulary of Business Terms—Preparation for Busi-
ness—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.

CAMPOR A SOLVENT FOR IODOFORM.—Camphor increases the solubility of iodoform in alcohol and ether. While one hundred parts of alcohol ordinarily dissolve not more than one and one-fourth parts of iodoform, the same amount of a saturated solution of camphor is capable of taking up as much as ten parts.—*American Practitioner and News.*

EXAMINATION OF IODOFORM GAUZE.—It is well to assure ourselves that iodoform gauze contains no coloring matter, which, while making it more attractive to the eye, injures its quality. Gauze treated with ether gives up all of its iodoform, and should become white. In solutions of caustic soda a good iodoform gauze holds its yellow color, while the dyed article turns gray, reddish or chestnut.—*M. Peccatt in Repert. de Phar.*

RESORCIN IN PAINFUL ULCERS OF THE LEG.—The *Therapeutische Monatshefte* states that Thier, of Vienna, reports great success in the treatment of painful ulcers of the leg with resorcin. The medicament is applied in the form of ointments containing from 5 to 25 per cent. of resorcin, according to the nature of the case. Pain disappears rapidly, healthy granulations appear, and, as a usual thing, convalescence is very rapid.

HOT WATER AS A HEMOSTATIC IN DENTISTRY.—Jul. Schelljun states, in the *Wiener Klinische Wochenschrift*, that in place of using cold water as a mouth wash after the extraction of teeth, he has for some time past used hot water as a hemostatic. His plan is to let the water fall, drop by drop, in the bleeding cavity. Hemorrhage is rapidly arrested and "soreness" much modified. The water should be just as hot as can be borne by the patient.

QUININE PILLS are recommended by E. Sohlet (*Bull. Soc. Roy. de Phar.*) to be made with lactic acid, of which three drops are stated to be sufficient to form a plastic mass with one gram of quinine sulphate. A somewhat larger quantity of the acid will be required in case other solid medicaments are to be incorporated. Since lactic acid is a normal constituent of the organism, its use for this purpose, in such a minute quantity, appears to be less objectionable than that of other acids.

CLEAR MUCILAGE.—A correspondent of the *Pharmaceutische Zeitung*, referring to the difficulty of keeping gum-arabic mucilage clear and sweet during the warm weather, states that a little ammonia generally suffices to counteract the acidity. This is objectionable because of the darkening of the color which is apt to ensue. Of all neutralizing agents there is none better than lime, and it will be found to make the mucilage with a mixture of 1 part of lime water and 4 parts of plain water.

PSEUDOCONHYDRINE.—This is the name given by Merck to a new crystalline base

isolated from the fruit of *conium maculatum* in his laboratory during the past year. It has been examined by Ladenburg, who finds that it is an isomer of conhydrine, and gives the formula $C_8H_{17}NO$ for it. Pseudoconhydrine is separated by fractional distillation in vacuo from the portion of crude coniine which comes over at a boiling point. When pure it crystallizes in needles, is easily soluble in alcohol, ether, and chloroform, and melts at about 98° C.

MUAWINE.—Among the new alkaloids introduced by Merck during the past year is one called by the awkward name of muawine. It is derived from the bark of a tree indigenous to Mozambique, and which the natives call muawi. The new alkaloid presents a very strong resemblance to erythrophline. In physiological action it is found by Professor Kobert to be very near to that alkaloid, but not identical with it. Muawine has been separated in a syrupy form, and it is believed to be amorphous. It is easily soluble in alcohol, ether and chloroform. The salts of muawine have not as yet been obtained in a crystalline form. The hydrobromate is a white powder, soluble in water, alcohol and chloroform.

PILLS OF EXTRACT CANNABIS are difficult to prepare because the extract cannot be readily uniformly incorporated. Either part of the extract will adhere to the sides of the mortar or to the pestle, or on account of its toughness, becomes stringy, so that it will not become uniformly distributed in the mass. The addition of alcohol is only admissible when the extract bears a small proportionate relation to the other ingredients of the pills. A dry extract cannot well be made by the usual method, the resinous character of the extract preventing this, but a tolerable preparation will be obtained if the extract is freed as much as possible from moisture, and then rubbed up with granulated sugar. The triturate may then be employed as dry extract.

COCAINE INCOMPATIBLES.—Cocaine is used in manifold mixtures, and often brought in contact with substances with which it is entirely incompatible. A. Brunner states that it is frequently prescribed with silver nitrate in ointments, when, as is probably not known to the prescriber, decomposition of the hydrochloride ensues with formation of insoluble chloride of silver, and a corresponding change in the cocaine. E. Schell, in the *Eis-Iolthir Journ. d. Pharm.*, reports that if calomel and cocaine hydrochlorate are rubbed together chemical reaction sets in. Mercuric oxide, too, if dispensed in form of ointment containing cocaine hydrochlorate changes, so that the ointment, instead of producing an anesthetic effect upon the eyes, produces an exceedingly irritating one. This is due to the formation of oxychloride of mercury, the quantity of which depends on the amount of cocaine used, the intimacy of its mixture with the oxide, and the age of the ointment.—*Apoth. Ztg.*

MITCHELL'S ARECA 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 Areca 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

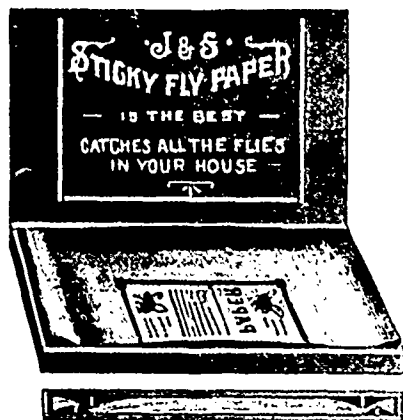
Have no equal as a Blood Builder, for men and women. They cure Anæmia, all forms of Debility, Suppressions of the Monthly Periods, Female Weaknesses, Palpitation, Shortness of Breath, Cold Hands and Feet, Nervous Headache, Chronic Constipation, Premature Decay, Loss of Powers, Loss of Memory, Involuntary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

The Dr. Williams Medicine Co.,

BROCKVILLE, ONT.

FULFORD & CO.,

Wholesale Trade Agents.



SECTIONAL VIEW.

COLLEGE OF PHARMACY
J. & S. GEORGE ST. E.
 TORONTO

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.

Infalible Moth Powder

WILL PREVENT AND KILL MOTHS, &c.

Nothing better for Woollen, Silk or FUR GOODS.

Packed in 1/2 and 1/4 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.

FORMULARY.

DOMISH'S LOCAL ANESTHETIC.—Dr. J. B. Mattison contributes to the *N. Y. Med. Journal* the following formula for this preparation:

Menthol.....	1	drachm.
Chloroform	10	drachms.
Ether.....	15	drachms.

Used as spray.

Though never pushed to complete anesthesia, it is said to freeze the part in a minute. I have found it very effective in superficial neuralgia, especially about the head; and if, added to its local use, a thin kerchief is placed over the face and the spray thrown on the nose and mouth, enough general effect—yet quite within a safe limit—can be got to add not a little to the local good.

FOAM MIXTURE FOR SODA WATER.—Place 1 lb. of acacia in a four-pint, wide mouthed bottle, rinse it two or three times with about 2 pts. of water, each time pouring off the water; then add 2 pts. of water and stir until dissolved; add 40 grains benzoic acid, dissolved in 2 drachms of alcohol and mixed with tincture quillina (N. F.), 6 fluid ounces; finally, mix and strain. Two or four fluid ounces to a gallon of syrup is sufficient.—*E. V. Zoeller.*

PERFUME FOR FACE POWDER.—

Tincture of musk.....	3	ounces.
Oil of milleseurs	3	ounces.
Otto of rose.....	15	drops.
Tincture of orris.....	9	ounces.
Tincture of benzoin	2½	drachms.

Mix.

LILY OF THE VALLEY PERFUME.

Essence of tuberose	21	ounces.
Essence of jasmín	18	drachms.
Essence of orange flowers. 15	“	“
Essence of rose.....	15	“
Spirit of rose	18	“
Tincture of vanilla	15	“
Oil of bitter almonds	10	drops.

—*Chemist and Druggist.*

ICHTHYOL VARNISHES.—Unna has recently published new formulae for watery varnishes of ichthyol, and the following are examples:—

Ichthyol.....	40	parts.
Starch.....	40	“
Water.....	20	“
Concentrated watery solution of albumen.....	1-1½	“

Mix the starch with the cold water, then incorporate the ichthyol and lastly the albumen solution.

Ichthyol	25	parts.
Carbolic acid	2.5	“
Starch	50	“
Water	22.5	“

Dissolve the ichthyol and the carbolic acid in the water by the aid of a gentle heat, then add the starch.

The starch referred to in the foregoing is starch mucilage, not starch flour.

A NEW INK FOR PHARMACEUTICAL USE.—L. Kautfeisen proposes the following formula for an ink, which he considers admirably adapted for general use in pharmacies:

Alizarin paste	15	parts.
Sodium carbonate	7	“
Extract of hæmatoxylin ..	25	“
Water	1,000	“

Dissolve the sodium carbonate in a small portion of the water, and add the alizarin. Dissolve the logwood extract in the balance of the water, and mix the two solutions. Drop a few nails or iron filings into a vessel large enough to contain the ink, and pour the solution into the same. Let stand for a week or ten days, and filter. To each quart add about 1 dram of crystallized carbolic acid, and let dissolve. The ink is now ready for use.

A more rapid method of finishing the ink is to substitute sulphate of iron for the metal, using 1 dram to the quart of liquid. The result is not so good, however, as ink thus made does not acquire the same intensity of color as that made by the slower method. The advantages claimed for the ink are cheapness, stability under ordinary circumstances, and the fact that it never precipitates. If it grows thick or muddy, the addition of a little water at once restores it to a useful condition.—*National Druggist.*

EMPLASTRUM MENTHOLATUM.—The following is given in the *Zeitschrift des allgemeinen Oestreichischen Apotheker Vereins*:

Colophony	7	parts.
Yellow wax.....	1	part.
Menthol	2	parts.

Melt the colophony and wax together, let cool and add the menthol.

SOAP FOR SWEATING HANDS AND FEET.—The *Pharmaceutische Centralhalle* gives the following:

Fat soap (<i>saponis animalis</i>) ..	15	parts.
Tannic acid	1	part.
Starch, sufficient		

Melt the soap in a water bath and add the tannin; mix thoroughly, and then stir in enough starch to make the mass friable.

Pill-Taking Made Easy.

A German firm has introduced a novelty which the *Pharmaceutische Zeitung* thinks deserving of notice. It is in the shape of a semi-circular nickel or silver-plated ring, which fits over the rim of an ordinary-sized tumbler, and is furnished with a small basket-like attachment for holding a pill. A swallow of water being taken through this basket, the pill, however nauseous its ingredients, is washed down without affecting the sense of taste or exciting any repugnance. The affair costs about 25 cents and would be acceptable to a large number of patients.

A CORRESPONDENT to the *American Lancet* divides medicine and surgery into:

1. The Calomel Age.
2. The Vivisection Age.
3. The Antiseptic Age.
4. The Age of New Remedies.

And says: "Every age has had its fanatics and old fogies. Fanatics to ride hobbies, and old fogies who would rather perish than turn an inch to the right or left of the old, time worn rut.

You cannot dream yourself into a character; you must hammer and forge yourself one.

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 Marvellous 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.

DRUGGISTS can make more money on every sale of **Insect Powder** by putting up their own. Containers—tin box with perforated lid and wrapper—can be got for \$3.75 per gross, or \$2.00 per half-gross, with your name and address on, from **LAWSON & JONES, Label Printers, London.**



DRUGGISTS can sell more **Paris Green** by putting it up in **Cartons** with bright green wrapper, and displaying it during the season. Write to **LAWSON & JONES, Label Printers, London,** for samples and prices.



EVERY DRUGGIST should put up **Iron Tonic Pills.** Write to **LAWSON & JONES, Label Printers, London, Canada,** for samples and prices of containers.

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 Hypophosphites 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.

16 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.



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.

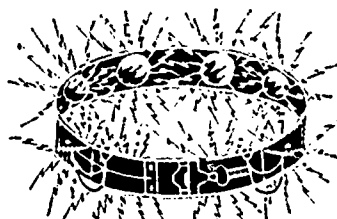
For sale by **Lyman Bros. & Co.,** of **TORONTO,** and other Wholesale Druggists.



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 look on Home Electro Medical Treatment.

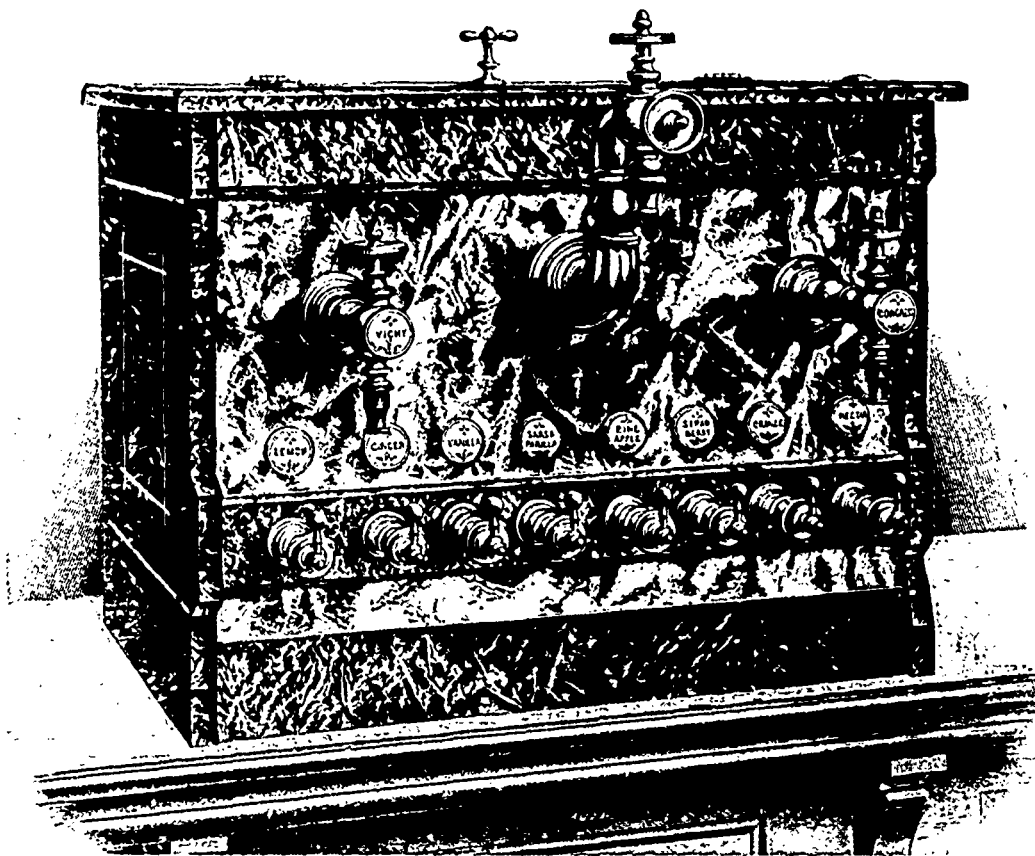
THE DORENWEND ELECTRIC BELT & ATTACHMENT CO.

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.

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.**

Established 1881.

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.

KEEP track of your sales and prevent mistakes and losses. Try the "Cashier" advertised by Geo. F. Bostwick, Toronto.

ATTENTION is directed to the advt. of W. H. Dietz, who has something useful, we might say invaluable, for enterprising druggists.

THE ALPHA HEADACHE WAFERS advertised elsewhere are proving good sellers, giving excellent satisfaction and affording a liberal margin for profits.

J. STONEHOUSE, of 509 $\frac{1}{2}$ Yonge-St., Toronto, advertises Black's Cream Soda Fountain, a cut of which appears on page 21. He also furnishes recipe for preparation, and full instructions. Write for prices, &c., mentioning the CANADIAN DRUGGIST.

HYGIENIC FOODS.—The prepared cereals of the Ireland National Food Co., of Toronto, as advertised in another column, are highly recommended by leading physicians and the medical press generally. All who use them seem very enthusiastic in their praises.

How to make money, is the subject of Lawson & Jones' address to the druggists of Canada on page 31. Read the advt. carefully and you cannot fail to see that the plan is one that every druggist may increase his sales and consequently his profits by adopting it.

WRITE to the H. W. Jayne Chemical Co., Frankford, Pa., for full particulars of Naphthaline Coal Tar Camphor, especially prepared for the drug trade as a camphor substitute for destroying moths. It is said to be free from oils and acids and is guaranteed not to turn red.

MESSRS. ARCHDALE WILSON & Co., of Hamilton, will have facilities for turning out "Fly Pads" this year in much larger quantities than ever before. "Fly Pads" are admittedly the most popular fly poison ever sold in Canada and stand the retail druggist a very handsome profit. Order early and often.

DRUGGISTS who want a cheap soda fountain are directed to the advertisement of Mr. J. Nelson on page 13 of this issue. He claims that it will do the work of the more expensive apparatus, giving good satisfaction and proving a source of increased revenue. When writing mention this paper.

THE LATEST NOVELTY is in the shape of a "Pepsin Chewing Gum," manufactured by the Beeman Chemical Co., of Cleveland, O., and advertised elsewhere in this issue. It is neatly put up and specially designed for the drug trade. It may be had from all the jobbing houses. Read the advertisement.

We would call special attention to the No. 5 Syringe, manufactured by the Tyer

Rubber Co., and advertised on page 3. They are made in either white or red rubber of the best quality, are handsome goods and have all the modern improvements as regards pipes, etc. "Tyrian" goods are all first class and very satisfactory to handle.

E. S. WELLS, of Jersey City, N. J., U. S. A., is a familiar name around the globe. The war he and Rough on Rats has waged for many years on the destructive rat, the pestiferous mouse, the festive cockroach, the tormenting bedbug, pugnacious sparrows and other annoying animals and insects, has made his name and fame universal. No drug store can do business nor any lady keep house without a full supply of "Rough On" Preparations. His trade extends all over the civilized world, Great Britain, Australia, India, Africa, Central and South America, &c., &c. See advt. in every issue.

OUR readers will notice the Powell & Davis Co.'s ad. on another page. The sales last year, and the firms who have handled and pushed them, are an evidence of their merit and popularity. This firm has increased their output to an enormous extent, which could only be done by the placing on the market of a meritorious article, and one that the druggists throughout the Dominion can sell and recommend. This year they are issuing an advertising card in colors, 14 x 20 inches, which they supply for a limited time with each box of felts. Druggists last year sold and pushed these felts on account of their neatness and reliability. If your firm has not already handled them we can only say, do so now. See advt. on another page.

Can be Used Where "Emulsions" Cannot be Tolerated.

FROM H. W. SKERRY, M. D.

(Visiting Physician to Brooklyn Home for Consumptives.)

I have used "Maltine with Cod Liver Oil" in the Brooklyn Home for Consumptives, where I have been very much pleased with its action. I have used it especially upon cases who were unable to take and retain cod liver oil either pure or in the different emulsions heretofore at our service. I have many instances where patients were unable to use Cod Liver Oil because of its nauseating effects, causing loss of appetite and consequent emaciation. In these cases, when placed upon "Maltine with Cod Liver Oil," there was no reason to discontinue its use.

THE PROGRESS OF SCIENCE.—Friendlee—What do you keep that absent-minded clerk for? He's no good on earth that I can see.

Franklee—Oh, yes, he is; he's a hypnotizer.

Friendlee—So I've heard; but what good does that do you?

Franklee—When he sells 'em a fifty cent prescription for a dollar, he makes 'em believe it's worth two dollars, but that they're getting a special discount.—*Pharmaceutical Era.*

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 handsome sign for inside and a stand, 3 ft. 6 in., for outside use, with a 50 lb. weight, and a thermometer 4 1/2 x 2 1/2 inches, first class in every respect. Also a Portrait Sign for Show Case, 9 x 12, with glass frame and a strong easel. 25¢ 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.



A GREAT Scientific Revelation.

The microbe is 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. T. 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.



B. Laurance & Co. 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.



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.

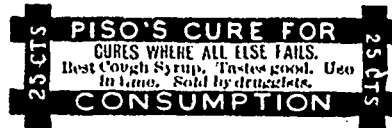
Will not tarnish or corrode.

Sent on receipt of price, \$1.02 each.

Money refunded if not as represented.

Duryea Jewelry Co.,

180 Broadway, N. Y. City.



PISO'S CURE FOR

CURES WHERE ALL ELSE FAILS.

Best Cough Syrup. Tastes good. Use in time. Sold by druggists.

CONSUMPTION



MUNN & CO.

SCIENTIFIC AMERICAN AGENCY FOR

PATENTS

A pamphlet of information at Lab.

street of the laws, showing How to

Obtain Patents, Copyrights, Trade

Marks, Copyrights, etc. If

Address **MUNN & CO.**

361 Broadway,

New York.

Drug Review.

Business during the past month shows signs of improvement. There are no startling changes to note.

Higher—Citric acid, Capsicums, Oil Orange, Oil Lemon.

Easier—Cubebs, Morphia, Quinine.

Citric acid good demand, prices are higher.

Capsicums higher.

Vanilla Beans a little easier; good fine long beans can be had at reasonable prices.

Cocaine unchanged.

Gum Arabic, some genuine Gum has arrived in England; as the Soudan is being opened up it is expected more Gum will follow.

Morphia is lower in price.

Opium steady at lower prices.

Cod Liver Oil, Norway—the catch of fish so far this summer is small and prices are advancing.

Oil Lemon continues to advance

Opium unsettled.

Quinine is easier.

Cantharides are higher.

Ergot will probably be higher.

Potass. Iodide firm.

Corks have advanced.

Oil Cloves easier.

Sulphur advancing.

Brevities.

"How can I get rid of superfluous hair, Mr. Druggist?" "Get married, sir."

Good Taste.—At a late polo match, a graceful girl was seen in a polo-aise (the noise out of compliment to the dear ponies, of course.)—*Fun*.

Quizzer.—Why do you call your physician "Pelican"? That's not his name, is it? Franklee—Oh, no; merely a pet name I've given him on account of the size of his last bill.

"Wife, do you know that I have got pneumonia?" "New mania, indeed! Such extravagance, you're the spendthriftiest man I ever did see, to go and lay out money for such trash when I need a new bonnet so much."

Druggist (looking through drummer's sample case)—"Well, I always knew you worked the romance racket pretty thoroughly, but I didn't know you had to carry a box of concentrated lye to keep up the supply of yarns.—*Pharmaceutical Era*.

Grains of Gold.

The secret of happiness—stop thinking about yourself.

No entertainment is so cheap as reading nor any pleasure so lasting.

The man who spends the first half of his years to taste all the sweets of life, will spend the second half trying to get the taste out of his mouth.

So necessary is fun to the mind that a late philosopher says, if you should build schools without playgrounds nobody would get beyond short division in a life time.

A smooth sea never made a skilful mariner, neither do uninterrupted prosperity and success qualify a man for usefulness and happiness. The storms of adversity, like the storms of the ocean, arouse the faculties and excite the invention, prudence, skill and fortitude of the voyager.

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, BEFORE Tobacco or Opium, or through youthful indiscretion, over indulgence, &c., such as Loss of Brain Power, Wakefulness, Bearing down Palus in the back, Seminal Weakness, Hysteria, Nervous Prostration, Nocturnal Emissions, Leucorrhoea, 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.

HER MAJESTY ROSE.

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 half-pound packages, at \$2.00 each.

We carry a full assortment of *Small Bottled Goods*, ranging in size from 2 drs. 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.



FLY = POISON = PADS.

SOLD TO DRUGGISTS ONLY.

Have a larger sale in Canada than all other Fly Poisons put together.

Improved and Enlarged-- Each packet will this year contain FIVE PADS, and the appearance of the article has been much improved.

PRICES AS BEFORE.

We ask the Druggists of Canada to favor us with the same liberal patronage we have enjoyed for many years, and to discountage the introduction of any article clearly intended to be sold upon the reputation we have established for FLY PADS.

SOLD BY ALL WHOLESALE DRUGGISTS AND PATENT MEDICINE HOUSES.

ARCHDALE WILSON & CO.,

Wholesale Druggists, Hamilton.

Canadian Druggist Prices Current:

CORRECTED TO APRIL 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.

ALCOHOL, gal.....	\$3 68	\$3 85	CASHEW, Fibre, lb.....	7 50	8 00	Bleached, lb.....	45	50
Methyl, gal.....	1 90	2 00	CHALK, French, powdered, lb..	10	12	Spruce, true, lb.....	30	35
ALLSPICE, lb.....	13	15	Precip., see Calcium, lb.....	10	12	Tragacanth, flake, 1st, lb....	1 00	1 10
Powdered, lb.....	15	17	Prepared, lb.....	5	6	Powdered, lb.....	1 10	1 15
ALOIN, oz.....	40	45	CHARCOAL, Animal, powd., lb..	4	5	Sorts, lb.....	25	75
ANODYNE, Hoffman's bot., lbs...	50	55	Willow, powdered, lb.....	20	25	Thus, lb.....	8	10
ARROWROOT, Bermuda, lb.....	45	50	CLOVE, lb.....	25	30	Hemp, Althca, lb.....	27	30
St. Vincent, lb.....	15	18	Powdered, lb.....	30	35	Bitterwort, lb.....	27	30
BALSAM, Fir, lb.....	45	50	COCHINEAL, Honduras, lb.....	40	45	Burlock, lb.....	16	18
Copaliba, lb.....	75	1 00	COLLOIDON, lb.....	75	80	Boneset, oz., lb.....	15	17
Peru, lb.....	2 50	2 75	Cantharidal, lb.....	2 50	2 75	Catnip, oz., lb.....	17	20
Tolu, can or less, lb.....	75	80	CONFERTON, Senna, lb.....	25	30	Chiretta, lb.....	25	30
BARK, Barbary, lb.....	22	25	Creosote, Wood, lb.....	2 00	2 50	Coltsfoot, lb.....	20	38
Bayberry, lb.....	15	18	CUTTLEFISH BONE, lb.....	35	40	Feverfew, oz., lb.....	53	55
Buckthorn, lb.....	15	17	DENTISE, lb.....	10	12	Grindelia robusta, lb.....	45	50
Canela, lb.....	15	17	DOVER'S POWDER, lb.....	1 50	1 60	Hoarhound, oz., lb.....	17	20
Cascara Sagrada.....	30	35	EGG, Spanish, lb.....	75	80	Jaborandi, lb.....	45	50
Cascarella, select, lb.....	18	20	Powdered, lb.....	90	1 00	Lemon Balm, lb.....	38	40
Cassia, in mats, lb.....	18	20	ERGOT, Keith's, oz.....	2 00	2 10	Liverwort, German, lb.....	38	40
Cinchona, red, lb.....	60	65	EXTRACT, Logwood, bulk, lb....	13	14	Lobelia, oz., lb.....	15	20
Powdered, lb.....	65	70	Pounds, lb.....	14	17	Motherwort, oz., lb.....	20	22
Yellow, lb.....	35	40	FLOWERS, Arnica, lb.....	15	20	Mullein, German, lb.....	17	20
Pale, lb.....	40	45	Calendula, lb.....	55	60	Pennyroyal, oz., lb.....	17	20
Elm, selected, lb.....	16	18	Chamomile, Roman, lb.....	30	35	Peppermint, oz., lb.....	21	25
Ground, lb.....	17	20	German, lb.....	30	35	Rue, oz., lb.....	30	35
Powdered, lb.....	20	28	Elder, lb.....	20	22	Sage, oz., lb.....	15	18
Hemlock, crushed, lb.....	18	20	Lavender, lb.....	12	15	Spearmint, lb.....	21	25
Oak, white, crushed, lb.....	15	17	Rose, red, French, lb.....	1 60	2 00	Thyme, oz., lb.....	18	20
Orange peel, bitter, lb.....	15	16	Rosemary, lb.....	25	30	Tansy, oz., lb.....	15	18
Prickly ash, lb.....	35	40	Saffron, American, lb.....	35	40	Wormwood, oz.....	20	22
Sassafras, lb.....	13	15	Spanish, Val'a, oz.....	1 00	1 25	Yerba Santa, lb.....	38	44
Soap (quillaya), lb.....	13	15	GELATINE, Cooper's lb.....	1 20	1 25	HONEY, lb.....	13	15
Wild cherry, lb.....	13	15	French, white, lb.....	40	50	HORS, fresh, lb.....	30	35
BEANS, Calabar, lb.....	45	50	GLYCERINE, lb.....	18	20	ISIDIO, Madras, lb.....	75	80
Tonka, lb.....	1 50	2 75	GRAPANA.....	3 00	3 25	ISSECT POWDER, lb.....	29	32
Vanilla, lb.....	6 00	9 00	Powdered, lb.....	3 25	3 50	ISINGLASS, Brazil, lb.....	2 00	2 10
BERRIES, Cubeb, sifted, lb.....	2 50	2 60	GEN ALON, Cape, lb.....	18	20	Russian, true, lb.....	6 00	6 50
powdered, lb.....	2 60	2 70	Barbadoes, lb.....	30	50	LEAF, Aconite, lb.....	25	30
Juniper, lb.....	10	12	Socotrine, lb.....	65	70	Bay, lb.....	18	20
Ground, lb.....	12	14	Assafetida, lb.....	23	25	Belladonna, lb.....	25	30
Prickly ash, lb.....	40	45	Aralic, 1st, lb.....	1 00	1 10	Buchu, long, lb.....	40	45
BURS, Balm of Gilead, lb.....	55	60	Powdered, lb.....	1 10	1 20	Short, lb.....	15	18
Cassia, lb.....	25	30	Sifted sorts, lb.....	75	80	Coca, lb.....	55	60
BUTTER, Cacao, lb.....	75	80	Sorts, lb.....	60	75	Digitalis, lb.....	25	30
CANTHARID, lb.....	70	85	Benzoin, lb.....	50	1 00	Eucalyptus, lb.....	18	20
CANTHARIDS, Russian, lb.....	2 60	2 10	Catechu, Black, lb.....	9	20	Hyoeyanum.....	25	30
Powdered, lb.....	2 10	2 20	Gamboge, powdered, lb.....	1 30	1 35	Matico, lb.....	70	75
CARSICUM, lb.....	25	30	Guaiaac, lb.....	80	1 00	Senna, Alexandria, lb.....	25	30
Powdered, lb.....	30	35	Powdered, lb.....	90	1 20	Tinnevely, lb.....	15	25
CARDON, Bisulphide, lb.....	16	18	Kino, true, lb.....	45	45	Stramonium, lb.....	20	25
CARMINE, No. 40, oz.....	40	50	Myrrh, lb.....	45	48	Uva Ursi, lb.....	15	18
			Powdered, lb.....	55	60	LEUCUS, Swedish, doz.....	1 00	1 10
			Opium, lb.....	3 90	4 60	Lacinae, Solazzi.....	45	50
			Powdered, lb.....	5 50	6 00	Pignatelli.....	35	40
			Scammony, pure Resin, lb.....	12 80	13 00	Grasso.....	30	35
			Shellac, lb.....	35	40	Y & S—Sticks, 6 to 1 lb., per lb	27	30

Y & S—Purity, 100 sticks in box	75	75	Unicorn, lb.	38	40	Subcarbonate, lb.	2 75	3 00
“ Purity, 200 sticks in box	1 50	1 50	Valerian, English, lb true.	20	25	Subnitrate, lb.	2 40	2 60
“ Acme Pellets, 5 lb. tins	2 00	2 00	Virginia Snake, lb.	40	45	BORAX, lb.	10	12
“ Lozenges, 5 lb. tins	1 50	1 75	Yellow Dock, lb.	15	18	Powdered, lb.	11	12
“ Tar, Licorice & Tolu, 5 lb. tins	2 00	2 00	RUM, Bay, gal.	2 25	2 50	BROMINE, oz.	8	13
LUPULIN, oz.	30	35	Essence, lb.	3 00	3 25	CADMIUM, Bromide, oz.	20	25
LYCOPORIUM, lb.	70	80	SACCHARIN, oz.	1 00	2 00	Iodide, oz.	45	50
MACE, lb.	1 20	1 25	SEED, Anise, Italian, sifted, lb.	13	15	CALCIUM, Hypophosphite, lb.	1 50	1 60
MANNA, lb.	1 60	1 75	Star, lb.	35	40	Iodide, oz.	95	1 00
Moss, Iceland, lb.	9	10	Burdock, lb.	30	35	Phosphate, precip., lb.	35	38
Irish, lb.	9	10	Canary, bag or less, lb.	4	5	Sulphide, oz.	5	6
MUSK, Tonquin, oz.	46 00	50 00	Caraway, lb.	10	13	CERIUM, Oxalate, oz.	10	12
NUTGALLS, lb.	21	25	Cardamom, lb.	1 25	1 50	CHINONINE, oz.	15	18
Powdered, lb.	25	30	Celery	20	25	CHLORAL, Hydrate, lb.	1 00	1 10
NUTMEGS, lb.	1 00	1 10	Colchicum	1 00	1 20	Crotos, oz.	75	80
NUX VOMICA, lb.	10	12	Coriander, lb.	10	12	CHLOROFORM, lb.	50	1 75
Powdered, lb.	22	25	Cumin, lb.	15	20	CINCHONINE, sulphate, oz.	25	30
OAKUM, lb.	12	15	Fennel, lb.	15	17	CINCHONIDINE, Sulph., oz.	15	20
OINTMENT, Merc. lb $\frac{1}{2}$ and $\frac{1}{4}$	85	90	Fenugreek, powdered, lb.	7	9	COCAINE, Mur., oz.	10 00	10 50
Citric, lb.	45	50	Flax, cleaned, lb.	3 1	4	COPPER, Sulph. (Blue Vitrol) lb.	7	8
PALALDEHYDE, oz.	15	18	Ground, lb.	4	5	Iodide, oz.	65	70
PEPPER, black, lb.	22	25	Hemp, lb.	5	6	COPPERAS, lb.	1	3
Powdered, lb.	25	30	Mustard, white, lb.	9	12	ETHER, Acetic, lb.	75	80
PITCH, black, lb.	3	4	Powdered, lb.	15	20	Sulphuric, lb.	45	50
Bergundy, true, lb.	10	12	Pumpkin	25	30	EXALGINE, oz.	1 00	1 10
PLASTER, Calcined, bbl cash.	2 25	3 25	Quince, lb.	40	50	HYOSCYAMINE, Sulp., crystals, gr.	25	30
Adhesive, yd.	12	13	Rape, lb.	8	9	IODINE, Resublimed, lb.	5 00	5 50
Belladonna, lb.	65	70	Strophanthus, oz.	50	55	IODOFORM, lb.	6 00	7 00
Gallanum Comp., lb.	80	85	Worm, lb.	22	25	IODOL, oz.	1 30	1 40
Lead, lb.	25	30	SEIDLITZ MIXTURE, lb.	25	30	IRON, by Hydrogen	1 00	1 10
POPPY HEADS, per 100.	85	90	SOAP, Castile, Mottled, pure, lb.	10	12	Carbonate, Precip., lb.	15	16
ROSIN, Common, lb.	2 1	3	White, Cont's, lb.	15	16	Sacch., lb.	35	40
White, lb.	3 1	4	Powdered, lb.	25	35	Chloride, lb.	45	55
RESORCIN, White, oz.	25	30	Green (Sapo Viridis), lb.	12	25	Sol., lb.	13	16
ROCHELLE SALT, lb.	30	32	SERMAZETI, lb.	55	60	Citrate, U. S. P., lb.	90	1 00
ROOT, Aconite, lb.	22	25	TEURENTINE, Chian, oz.	75	80	And Ammon., lb.	75	90
Althea, cut, lb.	30	35	Venice, lb.	10	12	And Quinine, lb.	1 50	3 00
Belladonna, lb.	25	30	Wax, White, lb.	50	75	Quin. and Stry., oz.	35	40
Blood, lb.	15	16	Yellow	40	45	And Strychine, oz.	13	15
Bitter, lb.	27	30	WOOD, Guaiac, rasped.	5	6	Dialyzed, Solution, lb.	50	55
Blackberry, lb.	15	18	Quassia chips, lb.	10	12	Ferrocyanide, lb.	55	60
Burdock, crushed, lb.	18	20	Red Saunders, ground, lb.	5	6	Hypophosphites, oz.	20	25
Calamus, sliced, white, lb.	20	25	Santal, ground, lb.	5	6	Iodide, oz.	40	45
Canada Snake, lb.	30	35	CHEMICALS.			Syrup, lb.	45	50
Colobus, Black, lb.	15	20	Acid, Acetic, lb.	10	12	Lactate, oz.	5	6
Colchicum, lb.	40	45	Glacial, lb.	45	50	Permanganate, solution, lb.	15	16
Columbo, lb.	20	22	Benzoin, English, oz.	20	25	Phosphate scales, lb.	75	80
Powdered, lb.	25	30	German, oz.	10	12	Sulphate, pure, lb.	7	9
Coltsfoot, lb.	38	40	Boric, lb.	20	25	Exciccated, lb.	8	10
Comfrey, crushed, lb.	20	25	Carbolic Crystals, lb.	28	35	And Potass. Tartrate, lb.	80	85
Cureuma, powdered, lb.	13	14	Calvert's No. 1, lb.	2 10	2 15	And Ammon. Tartrate, lb.	85	90
Dandelion, lb.	15	18	No. 2, lb.	1 35	1 40	LEAD, Acetate, white, lb.	13	15
Elecampane, lb.	15	10	Citric, lb.	60	65	Carbonate, lb.	7	8
Galangal, lb.	15	18	Gallic, oz.	10	12	Iodide, oz.	35	40
Gelsemium, lb.	22	25	Hydrobromic, diluted, lb.	30	35	Red, lb.	7	9
Gentian, lb.	9	10	Hydrocyanic, diluted, oz. bot-			LIME, Chlorinated, ball, lb.	3 1	4
Ground, lb.	10	12	ties doz	1 50	1 60	One lbs.	6	7
Powdered, lb.	13	15	Lactic, concentrated, oz.	22	25	LITHIUM, Bromide, oz.	40	45
Ginger, African, lb.	11	12	Muriatic, lb.	3	5	Carbonate, oz.	30	35
Po., lb.	13	15	Chem, pure, lb.	18	20	Citrate, oz.	25	30
Jamaica, blechd., lb.	25	28	Nitric, lb.	10 1	13	Iodide, oz.	50	55
Po., lb.	28	30	Chem, pure, lb.	25	30	Salicylate, oz.	35	40
Ginseng, lb.	4 00	4 10	Oleic, purified, lb.	75	80	MAGNESIUM, Calc., lb.	55	60
Golden Seal, lb.	75	80	Oxalic, lb.	12	13	Carbonate, lb.	18	20
Gold Thread, lb.	90	95	Phosphoric, glacial, lb.	1 00	1 10	Citrate, gran., lb.	40	45
Hellebore, White, powd., lb.	12	15	Dilute, lb.	13	17	Sulph. (Epsom salt), lb.	13	3
Indian Hemp	18	30	Pyrogallic, oz.	32	35	MANGANESE, Black Oxide, lb.	5	7
Ipecac, lb.	2 90	3 00	Salicylic, white, lb.	2 00	2 65	MENTHOL, oz.	25	30
Powdered, lb.	3 10	3 20	Sulphuric, carboy, lb.	2 1	2 1	MERCURY, lb.	90	95
Jalap, lb.	55	60	Bottles, lb.	5	6	Ammon (White Precip.),	1 50	1 55
Powdered, lb.	60	65	Chem. pure, lb.	18	20	Chloride, Corrosive, lb.	1 20	1 25
Kava Kava, lb.	40	90	Tannic, lb.	1 10	1 25	Calomel, lb.	1 50	1 60
Licorice, lb.	12	15	Tartaric, powdered, lb.	45	50	With Chalk, lb.	65	70
Powdered, lb.	13	15	ACETANILID, oz.	10	12	Iodide, Proto, oz.	35	40
Mandrake, lb.	13	18	ACONITINE, grain.	4	5	Bin., oz.	30	35
Masterwort, lb.	16	40	ALUM, cryst., lb.	1 1	3	Oxide, Red, lb.	1 50	1 55
Orris, Florentine, lb.	15	20	Powdered, lb.	3	4	Pill (Blue Mass), lb.	70	75
Powdered, lb.	20	22	AMMONIA, Liquor, lb.	12	15	MILK SUGAR, powdered, lb.	50	55
Pareira Brava, true, lb.	40	45	AMMONIUM, Bromide, lb.	65	75	MORPHINE, Acetate, $\frac{1}{2}$ oz., oz.	1 90	1 95
Pink, lb.	75	90	Carbonate, lb.	12	13	Muriate $\frac{1}{2}$ oz., oz.	1 90	1 95
Parsley, lb.	30	35	Iodide, oz.	35	40	Sulphate, $\frac{1}{2}$ oz., oz.	1 75	1 90
Pleurisy, lb.	20	25	Nitrate, crystals, lb.	40	45	PERSIN, Saccharated, oz.	35	40
Poke, lb.	15	18	Muriate, lb.	12	16	PHENACETINE, oz.	75	80
Queen of the Meadow, lb.	18	20	Valerianate, oz.	55	60	PHENACETINE, Muriate, grain.	5	6
Rhatany, lb.	20	30	AMYL, Nitrite, oz.	16	18	PIPERIN, oz.	1 00	1 10
Rhubarb, lb.	75	2 50	ANTIFERIN, oz.	1 00	1 10	PHOSPHORS, lb.	90	1 10
Sarsaparilla, Hond., lb.	40	45	ARISTOL, oz.	2 25	2 40	POTASSA, Caustic, white, lb.	55	60
Cut, lb.	50	55	ARSENIC, Donovan's sol., lb.	25	30	POTASSIUM, Acetate, lb.	35	40
Senega, lb.	55	65	Fowler's, sol., lb.	13	15	Bicarbonate, lb.	15	17
Squill, lb.	13	15	Iodide, oz.	35	40	Bichromate, lb.	12	13
Stillingia, lb.	22	25	White, lb.	6	7	Bisrat (Cream Tart.), lb.	28	30
Powdered, lb.	25	27	AROPINE, Sulp., in $\frac{1}{2}$ oz., oz.	7 00	8 00	Bromide, lb.	50	55
			BISMUTH, Ammonia-citrate, oz.	40	45	Carbonate, lb.	14	16

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.....	1 25	1 50
Cyanide, fused, lb.....	40	55	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	Origanum, lb.....	65	70
Nitrate, gran., lb.....	8	10	Sulphate, lb.....	9	11	Patchouli, oz.....	1 75	1 80
Permanganate, lb.....	50	55	Valerianate, oz.....	25	30	Pennyroyal, lb.....	2 00	2 10
Prussiate, Red, lb.....	50	55	ESSENTIAL OILS.			Peppermint, lb.....	1 00	1 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	Rec't, lb.....	65	70	Rosemary, lb.....	70	75
QUININE, Sulph., bulk.....	28	38	Anise, lb.....	2 75	3 00	Rue, oz.....	25	30
Ozs., oz.....	33	40	Bay, oz.....	50	60	Sandalwood, lb.....	5 50	6 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	Cajuput, lb.....	1 80	1 90	Spear-mint, lb.....	6 00	6 25
SILVER, Nitrate, cryst., oz.....	95	1 00	Capsicum, oz.....	60	65	Spruce, lb.....	65	70
Fused, oz.....	1 00	1 10	Caraway, lb.....	3 50	3 75	Tansy, lb.....	1 25	1 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	FIXED OILS.		
Hypo-sulphite, 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. E., 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
SPRIT NITRE, lb.....	30	55	Fennel, lb.....	1 60	1 75	LINSEED, boiled, gal.....	75	78
STRONTIUM, 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.....	21	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 EMETIC, lb.....	50	55	Garden, lb.....	1 50	1 75	SPEEM, gal.....	1 60	1 75
THYMOL, (Thymic acid), oz.....	60	65	Lemon, lb.....	2 00	2 25	TURPENTINE, gal.....	70	75

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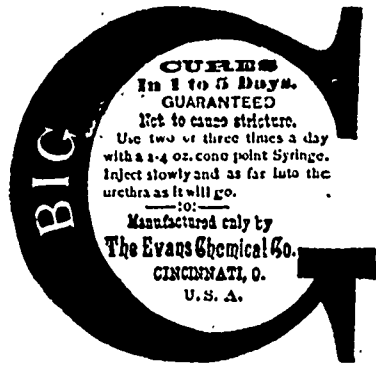
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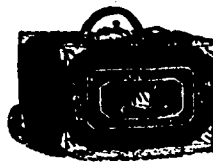
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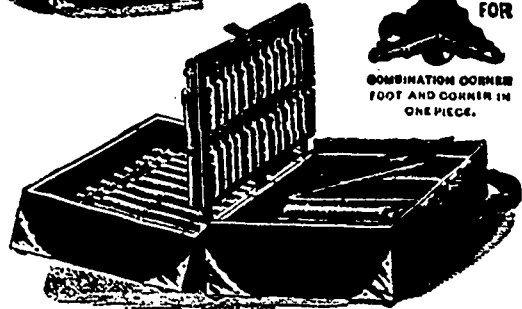


METAL SPRING, Pat. July 31, 1890.



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