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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. }

AUGUST, 1891.

{ 6 WELLINGTON ST. WEST, } No. 8.  
TORONTO, ONT.

## 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 6th 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.

### Montreal College of Pharmacy.

THE Montreal College of Pharmacy which was organized in 1867 and obtained its letters of incorporation from the Provincial Legislature in 1879 is, we believe, the oldest institution of its kind in Canada. It is the outgrowth of the Montreal Chemists' Association, but was not formally regarded as an educational institution

executive board, a commodious building on Lagachetiere-St. was purchased, and in May, 1890, was taken possession of by the Board. The College building has two lecture rooms, a large chemical laboratory,



H. E. DESROSIERS, M. D.

a committee room and an office for the use of the registrar, all of which are suitably fitted up and well adapted to the requirements of the students and faculty

The following constitute the Executive Committee, having been elected at the annual meeting in May, 1891 A. D. Mann, W. H. Chapman, C. J. Covernton, W. S. Kerry, L. R. Baridon, C. E. Searff, Jules Hirtz, A. E. DuBerger, A. Maillet, D. Watson, J. T. Lyons and A. Manson. The officers are—

President ..... David Watson.  
Vice President..... John T. Lyons.  
Treasurer ..... A. Manson.  
Secretary ..... E. Muir.

The faculty consists of the following gentlemen:—Prof. Thos. D. Reed, M. D., who learned the drug business with Lamplough & Campbell, and was with them from 1855 until commencing business for himself in 1864, afterwards graduating at McGill University in the class of '71, and has since 1877 held the position of Lecturer on Materia Medica and Toxicology in the College.

Prof. Jos. Bemrose, F. C. S., F. I. C., Member of the Pharmaceutical Society, London, and also of the Society of Public Analysts, is Lecturer in Chemistry and Pharmacy in the M. C. P.

Prof. H. E. Desrosiers, M. D., Professor of Therapeutics in Laval University, is Lecturer in Therapeutics and Materia Medica.

Prof. C. A. Pfister, Lecturer on Chemistry in the Polytechnic School, Montreal, also Lecturer on this subject in the College.

The accompanying photo engravings are those of the three first named Professors, the other we were unable to procure in time for this issue of THE CANADIAN DRUGGIST.

### Women as Pharmacists.

In Sweden the medical authorities are heartily in favor of giving ladies a privilege to become apothecaries, have recommended the government to introduce the requisite regulations.

In Norway the women have for the last six years been entitled to study pharmacy and to manage and own dispensaries, subject to certain conditions.

In Denmark only two women have



THOS. D. REED, M. D.

until 1870. In October of that year an Executive Board was elected of whom Mr. N. Mann was chosen President, and Mr. E. Muir, Secretary. For a number of years the College labored under the disadvantage of having no suitable building for holding lectures, etc., but through the combined exertions of the members and



JOS. BEMROSE, F. C. S.

gone in for pharmacy, and neither of them has passed the final examination.

In Finland there are seven female apothecaries. None of them has passed the final examination, and since 1884 no lady has applied for admission to the profession.

In Russia, ladies have, since the com-

mencement of last year, been entitled to become apothecaries, and nine, having already completed the preparatory studies at Zurich, have availed themselves of the right to pass the Russian examinations. The owners of dispensaries appear, however, to be averse to receiving such ladies as students, and so far none of them have succeeded in gaining admission to any establishment in St. Petersburg.—*Pacific Drug Review.*

### Quebec Pharmaceutical Association.

The following were elected officers of this Association at their annual meeting:

President,	Henry R. Gray, Montreal.
1st Vice-Pres.,	Jos. E. Morrison, Quebec.
2nd "	R. W. Williams, Three-Rivers.
Treasurer,	A. Manson, Montreal.
Asst. Treas. & Secy-Regis. }	E. Muir, Montreal.
John T. Lyons, Mont.	W. S. Kerry, Mont.
C. A. Nelson, "	J. R. Parkin, "
A. E. DuBerger, "	Rod. Carriere, "
Jos. A. Dawson, "	A. LaRue, Quebec.

#### BOARD OF EXAMINERS.

Henry R. Gray, Montreal, Chairman.
A. Manson, Mont. Jos. E. Morrison, Quebec.
S. Lachanco, " R. W. Williams, Three-Rivers.
J. T. Lyons, " A. E. DuBerger, Waterloo.
E. Muir, Montreal, Secretary of Board.

#### PRELIMINARY EXAMINERS.

For Montreal—W. S. Kerry, A. E. DuBerger, C. E. Scarff.
For Quebec—P. F. Rinfret, Wm. B. Rogers, J. I. LaRoche.

### Olive Oil.

BY A. B. STEWART, M. A., PH. G.

ON the 15th of June, 1871, the writer bottled twelve two ounce bottles of pure olive oil, which were boxed and kept on a garret in darkness, and where the temperature in winter was not sufficient to cause precipitation of margarin. On the 15th of June, 1891, the oil was examined; three bottles had precipitated 25 per cent. of margarin, four 20 per cent. and five 16 to 18 of margarin. When placed in hot water the oil instantly became deep green in color and transparent; on being placed in a dark closet for 24 hours it became opaque, 24 hours longer deposited about  $\frac{1}{10}$  margarin, and after 7 days complete precipitation took place; when exposed to the light of the sun the margarin would rise toward the top, and in a few seconds the solid part would become translucent. It then becomes obvious that age and darkness cause precipitates, to a greater or less extent, of the margarin contained in all oils, from the fact that on repeated closeting of the oil precipitation would occur, while sun-light would render it translucent and transparent. This oil was then subjected to chemical tests for purity. Mercury  $18\frac{1}{2}$  grs., and nitric acid  $21\frac{1}{2}$  grs., sp. gr. 1.35, were mixed with the oil, which failed after a few hours to be converted into a solid mass. Sulphuric acid, by a tinge of rose-color, in three or four shakings in the test tube, revealed the presence of poppy oil. Nitric acid failed to reveal the green color given to the pure oil. Equal parts of nitric and

sulphuric acids mixed with equal weights of the oil neither revealed a bright yellow color of the pure oil nor the beautiful deep green color of the oil of sesamum. After testing pure lard oil, the results were compared and revealed that what was apparently pure olive oil, was in reality lard oil with a variable proportion of cotton seed oil and minute traces of poppy oil.—*Phil. J. of Pharmacy.*

### Pharmacists' Symbols

THE art of the pharmacist is old; it is assuredly of pre-historic origin. The reader of Dioscorides or of Pliny is astonished at the number of herbs and other things used as medicines, and the complexity of many popular prescriptions. Referring to the pharmacist, it is curiously observed in "Ecclesiasticus" that "of his works there shall be no end." In other days than ours there was evidently a morbid taste for the multiplication of remedies of doubtful worth—a deplorable infirmity of many physicians.

It is stated by Ebers, in his "Egyptian Princess," that each of the Egyptian temples had its laboratory and apothecary. There is a list of two hundred drugs which were kept in the temple of Edfu. But just when the preparation and sale of medicines became a special business cannot be stated. In early times it was customary for the physician to compound his own prescriptions, as is done in rural places yet. Mr. Fort remarks that "toward the conclusion of the third century the first indications present themselves of the existence of a class of (Roman) citizens to whose vigilante care was confided the preparation of medicaments ordered by attendant physicians." The same writer says: "The storage of medicinal supplies seems to have approximated the pharmacy in the twelfth century, although even earlier the word *apothecary* appears to have been interchangeable with the booth where assorted wares were offered at public sale." At the end of the twelfth century the Bishop of London was named *apothecarius* or pharmacist, to King Henry, a fact which proves that the art of Bolus was then, at least highly esteemed.

Now, although the establishment of the pharmacist has mysteries in abundance connected with it, the special symbols pertaining to the business are but few. The chief and most characteristic one is the mortar and pestle. In Larwood and Hotten's interesting book it is said: "One of the signs originally used exclusively by apothecaries was the mortar and pestle, their well-known implements for pounding drugs." In an attractive form and generally gilded it is to be seen at nearly all pharmacies in this country. Only occasionally is it pictured. I know an instance in Philadelphia where Cupid is represented in connection with it; but this is as absurd an addition as the negro youth who is using the pestle in another. An eagle—the national bird—is sometimes represented hovering over it. The

pestle used for grinding corn was deified by the Romans under the name of *Pilumnus*. In connection with the mortar it is highly spoken of in the sacred books of the Hindus.

The skull and cross-bones has come to be of pharmaceutical significance. Placed on the label of a vial, it implies that the contents are poisonous, and should be used with intelligence and care. It has been in use from an early date as an emblem of death. Formerly, it was often placed on tombstones.

The reference to the "art of the apothecary," made in the Bible, has been regarded as "the first recorded notice upon the subject of medicine and pharmacy,"—as, for example, by the late professor, Dr. George B. Wood; but here we have explicit evidence that farther back, say 1,000 years before the time of Moses, people were in the habit of having medicines stored in vases of a set kind, and that the Babylonians had considerable pharmaceutical knowledge, as well as their medical practice was not exclusively magical; or, as Mr. Halevy puts it, "it proves that the Babylonians were in possession of a rational medicine as well as a magical one." He further remarks that it is "the only known specimen of an Assyro-Babylonian prescription."—*Medical Symbolism.*

### New Compounds not Therapeutically Described.

MERCURY AND ZINC, ACETATE.—Whiteish powder, soluble in water.

IRON-BORO-LACTATE.—Greenish powder, soluble in water.

IRON BROMO LACTATE.—Slightly yellowish, hygroscopic, crystalline powder.

LEAD ACETO-TARTRATE.—White or translucent crystals, clearly soluble in water.

LEAD OXY-CHLORIDE.—Chemically Pure Powder, is of a yellow color and insoluble in water, etc.

LITHIUM FLUORIDE, PURE.—Colorless, imperfectly crystalline powder, difficultly soluble in water.

IODINE CYANIDE.—White laminated crystals, which readily turn red; easily soluble in ether and in alcohol, less so in water.

MERCURY BI-CHROMATE.—A beautifully red, heavy, crystalline powder, not soluble in the ordinary solvents. Heat decomposes the salt, metallic mercury being surrendered.—*Merck's Bulletin.*

NOT DISPENSED AT CUT RATES.—The following is a prescription that seldom falls into the hands of the cutters:

R Honesty.  
Industry.  
Sobriety.  
Constancy.  
Economy, aa. q. s.  
M—Ft.

This is a true and sure preparation for success in life, if persistently carried out.—*Myers Bros.' Druggist.*



WE have spared no expense or trouble in bringing out the

**“IVORINE” Tooth Powder,**

and heartily recommend it to the Drug Trade of the Dominion. No stone will be left unturned until “IVORINE” has become a household word from Victoria to Charlottetown.

PRICES AS FOLLOWS:

1 Dozen,	\$1.90.
3 "	5.55.
6 "	10.80.
12 "	21.00.

Order them from the Wholesale Drug Houses or from

**The Hemming Bros. Co. (Limited) TORONTO.**

## Simson's - Liniment.

**W**E are proprietors of this medicine, well known and largely sold in Nova Scotia and Quebec. A powerful ammoniacal liniment of a rich creamy consistence. Approved by all who use it, and always makes trade for itself. May be had through the wholesale houses in Toronto and Montreal, or direct from

**BROWN & WEBB,**

HALIFAX, N. S.

## 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.

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1743 & 1745 Notre Dame,

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## 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, Boudoir 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



Unsurpassed for Richness and Beauty of Coloring.

They are the only ones 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.

## New Goods.

## LYMAN BROS. & CO.

TORONTO, - ONT.

**Lubin's Perfumes.** All sizes.  
Full assortment.

**Pinaud's Lilas de France.**

8 oz. bottles.

" **Ess. Borghetto.**

Small bottles.

" **Brilliantine.**

**Violet's Sachet Powder (Lilac)**

" **Lilas Blanc Perfume.**

" **Meiza de Perse Perfume.**

" **Lexus Dore Perfume.**

" **Amorosa Perfume.**

" **Jacinthe Blanc Perfume.**

" **Magnet Perfume.**

**Elliman's Embrocation.**

**Stevens' Spavin Ointment.**

**Laville's Gout Cure.**

**OPAL POMADE POTS** -- Celluloid Top.

We have the Agency for **ELLIS & GOLTERMAN'S CONTINUOUS SPRAY ATOMIZERS.** These goods are having a large sale, and are the best values we know of.

**HEADQUARTERS ON SPONGES.**

## TRADE NOTES.

Chas. Lugsdin, druggs, Port Colborne, Ont., has sold out.

J. Teague, jr., druggist, Victoria, B. C. Sheriff is in possession.

C. H. Boves & Co. have opened a drug store at Victoria, B. C.

V. E. Latimer, M. D. and druggs, Holland, moved to Birtle, Man.

G. A. Grant, druggist, Stellarton, N.S., is about giving up business.

Thos. McLwan, physician and druggist, Springfield, has sold out to A. F. Tufford.

Mr. J. E. D'Avignon, Windsor, Ont., returned from a pleasure trip to Europe.

Horricks & Co., druggs, Vancouver, B. C., are offering to dispose of their business.

W. Thornton, formerly with J. Field at Calgary, Alberta, has opened a drug store at that place.

G. T. Fulford & Co. are about pushing the sale of Williams' Pink Pills in the United States.

W. P. McLaren, druggist and stationer, Watford, Ont., is offering his business for sale on account of ill health.

Jas. Douglas, of the London Drug Co., London, Ont., accompanied by his wife, has returned from a trip to England.

The Canadian office of Adams & Sons, chewing gum manufacturers, has been removed to 11 and 13 Jarvis st., Toronto.

A. Stewart, formerly manager of A. B. Petrie's branch store in Guelph, Ont., is commencing business for himself in that place.

C. K. McGregor, of Brantford, and member of the Council of the Ontario College of Pharmacy for district No. 9, is in England, and will not return until September.

F. W. Meek, druggist and stationer, Strathroy, Ont., has moved into the new store fitted up for him at his former stand, and has one of the nicest and best fitted stores in the west.

Messrs. Lauman & Kemp announce that on account of the continuous advances in the excise duty on spirit, they will advance the price of Florida Water to \$1.75 per doz. in less than 1 gross lots.

Dr. Henry T. Helmbold, of Helmbold's Buchu fame, has been committed to a lunatic asylum for a fourth time. He was estimated at one time to be worth \$10,000,000 and owned 4 or 5 drug stores in Philadelphia and 3 in New York City. He is now a raving maniac and is confined in an asylum at Trenton, N. J.

### Toronto Drug Cricketers.

THE Toronto retail druggists have formed a cricket club with the following as executive officers:—Mr. John Hargreaves, Pres.; Mr. O. F. Botsford, Vice Pres., and Mr. T. N. Sampson, Sec.-Treas.

In about a week's time these gentlemen enlisted some forty members, secured their

outfit, a permit from Parks Commissioner Chambers, and played their first practice game, which speaks well for their energy and the good feeling which seems to animate Toronto druggists generally.

Cricket is essentially a gentleman's game, one which does not partake of the rough and tumble elements which too frequently form an unavoidable part of outdoor games of sport, and is therefore the more suited for those who, situated as the druggist usually is, have not the time or opportunity to harden their muscles to stand more severe forms of exercise.

Aside from the physical benefit which the participants are likely to receive from the game it is believed that such meetings will do very much to encourage a greater degree of friendliness and maintain that spirit of unity which is now a prominent feature in their actions, and which cannot fail to benefit individually all concerned. We wish the cricket club success and hope that its first season won't be its last.

In their first match, which was between teams chosen from the married and single members of the club, the single men scored 76 in both innings to 72 for the married.

Their next venture was against the soldiers of the New Fort. Here the "pestle proved stronger than the sword," the score being 60 to 51 in favor of the druggists in a single innings match.

### Manitoba Notes.

Mr. B. M. Canniff, of Portage la Prairie, is now able to attend to business, after his long and protracted illness.

Mr. J. Taylor, of Portage la Prairie, was in Winnipeg this week combining business with pleasure.

Dr. J. C. Stoyte, of Souris, is progressing with his new store and hopes to be able to occupy it about Sept. 1st. When finished this will be one of the finest stores in the province. The interior fittings are of solid cherry, and are being made in Nova Scotia. It will be of the latest and most improved design, affording every convenience in a well equipped store.

Messrs. Wm. Dickie and A. E. Munsen, of Carberry, have combined interests and fitted up a new and pretty store where under the style of Munsen & Co., they will do an increased and prosperous trade.

Mr. C. W. Herrell, of Neepawa, contemplates building a new store next spring, which will surpass anything in Canada in the way of elegance and convenience.

The registrar of the Pharmaceutical Association has announced that lectures will commence on Oct. 1st in the Manitoba Medical College.

Mr. P. H. Rosser, of Martin, Rosser & Co., left on July 3rd for a trip over the main line of the C. P. R. west, combining business with pleasure. Before returning he intends visiting the Pacific coast. From inquiries he is having a good time and enjoying his much earned holiday.

Mr. Luthhead, chemist for Lyman, Knox & Co., of Montreal, passed through on a holiday trip to the coast a short time ago.

Mr. J. K. Patton and family, of Minnedosa, have gone east on a visit. Mr. Patton expects to return in about three weeks, but Mrs. Patton and children will remain for the balance of the summer.

### Montreal Notes.

There is a feeling that the laboring man had his innings. The press has praised him, and the public has sympathized with him. Perhaps drug clerks might get a little of this public sympathy if they would only combine and agitate against late hours, which both physicians and pharmacists agree are altogether unnecessary. The proprietors would hail with pleasure the change quite as much as the clerks. By all means agitate and go in at first as a matter of policy for a moderate curtailment of the hours of labor. The present system prevents both employers and employed from enjoying any social life whatever.

The widening of Bleury street, which will be commenced next May, will seriously inconvenience the druggists on that street. We happen to know that the widening of St. Lawrence st. resulted in great loss to all the druggists there whether on the side expropriated or not, and it will take a couple of years more to bring business back into its old channel.

A Montrealeur, who is now clerking in Boston, told your correspondent the other day that liquor selling is largely carried on by pharmacists there, and it is in many drug stores the principal source of profit and what is worse still a good deal of this degrading trade is done on Sunday. Let us hope there is a little exaggeration in this assertion. It appears the more too many drug stores for them all to earn an honest living.

The Montreal Druggists' Association is now firmly established. Mr. Contant, late president of the Pharmaceutical Association, has been elected president, and Mr. Lyons, hon.-secretary. The real work of the association will scarcely begin until the fall, when it is hoped the meeting will be well attended. The first object of the association is to bring about an understanding as to retail prices.

At present cutting is not so bad in Montreal as in many other cities, and it is to be hoped the common sense of druggists will prevent them from reducing their profits. It should be borne in mind that reducing prices does not increase the consumption of drugs. In addition to the price question the association will discuss clerks' salaries, Sunday trading, the long hours of labor and the opposition of wholesale houses by selling retail at wholesale prices.

Mr. Jackson, it is reported, has sold out to his clerk who takes possession at once. Having had money left him some time since by a relative in England, it is

said that Mr. Jackson will now retire. Knowing Mr. Jackson's love for the country I presume he will now take his *odium dignitate*.

Mr. J. A. Harte's new store at the corner of St. Catherine and Metcalfe streets, is to be a stylish affair and will be under the management of Mr. Harte's son.

Business is abnormally flat in Montreal this month. In some parts of the city one may sit in a drug store for half an hour without seeing a customer; not even the proverbial directory fiend drops in.

There are rumors of still another drug store to be opened on St. Catherine st. between St. Denis and St. Lawrence, but I have not been able to obtain the name of the courageous party.

It seems astonishing the craze which exists in Montreal for opening new drug stores. To any well balanced mind it is evident they cannot all make a living. It is not every one who has a diploma who is competent commercially to run a drug store. There are now 5 drug stores on Bleury st., 8 on St. Lawrence, and on St. Catherine they are innumerable. Many of these stores keep open all day on Sunday and nearly half the night, certainly not much of a temptation for a sane man to adopt pharmacy as a profession.

Mr. Scarff, who was many years manager of the Medical Hall, St. James st., and who is now keeping a pharmacy on his own account on St. Catherine st. West, has accepted the position of examiner on the Board of Preliminary Examiners, which with Mr. W. S. Kerry and Mr. Duberger make a very strong Board, all three gentlemen being well educated and experienced.

Mr. Lachance has received a medal from the Commissioners of the Jamaica exhibition for some specialties of his manufacture exhibited there.

Mr. Bridon having retired from the Council of the Pharmaceutical Association Mr. R. Carriere was appointed in his place, having had the next highest number of votes at the annual meeting. Unfortunately Mr. Carriere's time is so much engaged that he cannot accept the position, therefore the council will have to elect some one else at its next meeting.

### Our English Letter.

London, July 22nd, 1891.

CHLOROFORM has attracted a good deal of attention during the last few weeks in consequence of the statement made by M. Piclet, that he had been able to prepare absolutely pure chloroform by a new method. As far as is at present known it consists of submitting ordinary commercial chloroform to a freezing-out process, conducted both by extreme pressure and cold. The result is stated to be a true trichloro-methane absolutely pure—impurities separating by crystallisation—and stable. Unfortunately we have had recently a large number of deaths under

chloroform—medical men say much larger than usual. Consequently the discovery of the new method has suggested to our medical confreres that these unpleasant occurrences must have been due to impurities in the chloroform. It is not too much to say that at present there is no particle of evidence of any impurities beyond the 1 per cent. of spirit allowed by the B. P. as rendering the article more stable. During the last year, however, we have had two new brands of chloroform introduced on the market and largely employed by the medical men. The first is known as the "Warrington" chloroform, for which Mr. A. H. Mason is agent. Mr. Mason is known to many Canadians as having held for some years the position of manager of Messrs. Evans, Sons & Co., Ltd., at Montreal. He is now a partner with Mr. Geo. Seabury, in Seabury & Johnson, at their London house. This chloroform is prepared from acetone and has become known by that name. The other preparation of chloroform is made from mixed Ketone sources and is known as "Ketone chloroform." Besides these we have the pure (from absolute alcohol) and that made from methylated spirit. All of these answer the official tests and so far no impurities have been proved to exist in them. If M. Piclet has prepared pure chloroform which is stable without the addition of even the minute amount of alcohol at present allowed, it is an interesting discovery, but nothing more.

The editor of the *Pharmaceutical Journal*, Dr. Paul, recently laid it down as an axiom that only pure chloroform should be used in the B. P. preparations of chloroform. This was speedily proved to be erroneous, as the *Pharmacopœia* does not order it to be made from pure alcohol but only says it *may* be so made. Moreover, in the preface it is distinctly laid down that the processes may vary as long as the products answer the B. P. requirements as to tests, etc.

PHENOCOLL HYDROCHLORIDE is one of the latest additions to our ever-increasing stock of antipyretics. This body, which is patented and introduced by Schering, of Berlin, has advantages over antifebrin in that it is soluble 1 in 16. Although, at present, there are no advantages which phenocoll can claim over antipyrin, its freedom from taste and absence of influence upon the normal body temperature are favorable features. It has already been reported upon favorably in acute articular rheumatism and hectic fevers.

INFLUENZA REMEDIES during the recent re-visitation of the epidemic were almost entirely different to those upon which most physicians pinned their faith last year. Quinine, again undoubtedly was regarded as a sheet anchor, but salicylate of sodium, aconite and solution of acetate of ammonia were much more largely prescribed. Many of the wholesale druggists supplying doctors introduced compound quinine mixtures, containing quinine, aconite, phosphoric acid and aromatics.

Saline mixtures of nitrate of potash, acetate of ammonia and spirit of nitrous ether were frequently prescribed, whilst Dr. Turner has just announced the successful results obtained with over 200 cases by the simple exhibition of 20 grain doses of salicin, repeated at frequent intervals. Antipyrin and other antipyretics were much less frequently employed, whilst camphor and stimulating tonics replaced them in a large manner.

PHARMACEUTICAL POLITICS are very quiet just now, the much-abused pharmacy bill introduced by the Pharmaceutical Society into Parliament, having been withdrawn. Preparations are being made for the annual meeting of the British Pharmaceutical Conference which takes place this year at Cardiff. It is not customary here to have exhibitions of pharmaceutical products after this meeting, although all the principal wholesale firms exhibit at the meeting of the British Medical Association. The president of the Pharmaceutical Conference this year is Mr. William Martindale, F. C. S., who is a well known leading pharmacist and author of the "Extra Pharmacopœia." Prof. Redwood is taking great interest in the meeting and already a number of scientific and technical papers are promised.

FORMULÆ.—According to the *British and Colonial Druggist* the following is a good—

*Carbolic tooth powder*—Precipitated chalk 4 oz., powdered soap  $\frac{1}{4}$  oz., powdered cuttle fish  $\frac{1}{2}$  oz., carbolic acid 1 drachm, oil of cloves 4 minims, eau de cologne 30 minims. Color, if required, with carmine.

*Arsenical weed killer*—White arsenic 30 parts, caustic soda 20 parts, impure carbolic acid 2 $\frac{1}{2}$  parts, water to 100 parts.

*Glyco-gelatine*—Basis for suppositories, gelatine 6 drs., glycerine 12 drs., water 10 drs., dissolve by heat.

*Effervescent saline*—Powdered sugar 2 $\frac{1}{4}$  lbs., tartaric acid 22 $\frac{1}{2}$  oz., bicarbonate of soda, 24 oz., Rochelle salts 3 oz., dried epsom salts 9 oz., powdered chlorate of potash 3 oz., mix.

*Raspberry vinegar*—Raspberries 1 lb., sugar 5 lbs., vinegar 1 gallon; macerate 24 hours and strain.

DERMATOL.—This name has been applied to a new substitute for iodoform, which is itself a bismuthic gallate. It is a fine odorless, saffron-yellow powder, non-hygroscopic, not affected by light or air and insoluble in all neutral solvents. It is non-irritating, somewhat absorbent, is non-poisonous, and doses of 2 grams daily have no unpleasant effect.—*Pharm. Zeitung*.

Coriandrol constitutes about 90 per cent. of the oil of coriander. It is dextrogyre, and has a specific gravity of 0.8679 at 15° C.

It is nonsense to speak of "trifles light as air." The pressure of the atmosphere is fourteen or fifteen pounds on every square inch of surface.





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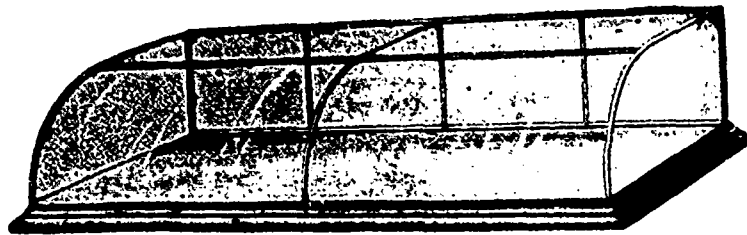
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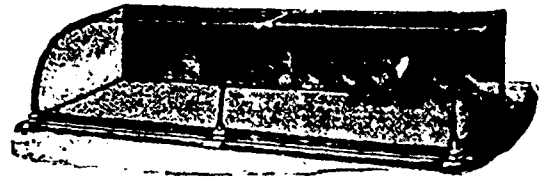
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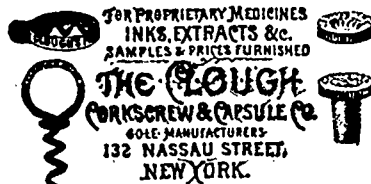
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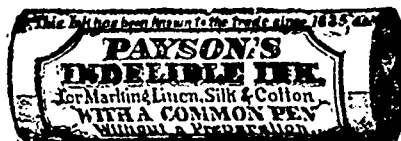
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## Ontario College of Pharmacy.

## MINUTES OF TWELFTH SEMI-ANNUAL MEETING.

Toronto, Aug. 4th, 1891.

The Council met in the Board room, Gerrard-st., at 2 p.m., the following members being present:—Messrs. J. A. Clark, president; John J. Hall, vice-president; John McKee, J. W. Slaven, L. T. Lawrence, Neil C. Polson, J. H. Mackenzie, A. B. Petrie, C. D. Daniels, F. Jordan, Angus Buchanan.

Mr. Lewis then read the returns of the election held at Toronto, July 3rd, 1891, as follows:—

Toronto, Aug 4th, 1891.

To the Council of the Ontario College of Pharmacy:

GENTLEMEN,—I beg leave to report that in accordance with Clause VI. of the Pharmacy Act an election for members of the Pharmaceutical Council of the Ontario College of Pharmacy was held on the 3rd day of July, A. D., 1891, and that I performed the duties of Registrar preliminary to, and at the said election.

The President then stated the first business before the Board was the election of President.

Moved by Mr. Slaven that Mr. John J. Hall be elected president.

There being no other nomination it was

Moved by Mr. Petrie, seconded by Mr. McKee, that the president cast his ballot in favor of Mr. Hall as president.

Mr. Polson placed in the hands of the president a document disclaiming the election under protest.

The President held that the disclaimer was not in order.

Mr. Polson wished the registrar to take note of the fact that the president refused to accept his disclaimer.

Mr. Petrie wished to withdraw his motion, and have the vote of the Board taken in the ordinary way.

Mr. John J. Hall expressed the opinion that the ruling of the president was perfectly proper.

Mr. Petrie's motion was then put to the Board and carried.

The president then cast his ballot in favor of John J. Hall and declared Mr. Hall elected president of the Council, and congratulated the Council on their choice.

Mr. Hall, on request of the chairman, then took the chair. Mr. Hall asked leave to reserve any remarks he wished to make till to-morrow morning.

Mr. Clark then moved that the documents handed in by Messrs. Polson and Jordan be placed on file; seconded by Mr. McKee. Carried.

The next matter taken up was the election of vice-president.

Moved by Mr. Mackenzie, seconded by Mr. McKee, that Mr. J. W. Slaven be elected vice-president.

Moved by Mr. Mackenzie, seconded by Mr. Buchanan, that the president cast his ballot in favor of Mr. Slaven as vice-president. Carried.

The president then cast his ballot in favor of Mr. Slaven, and declared him elected vice-president.

Moved by Mr. Mackenzie, seconded by Mr. Slaven, that the president cast his ballot in favor of Mr. R. T. Lewis as registrar-treasurer. Carried.

Moved by Mr. Slaven, seconded by Mr. Mackenzie, that the committee to draft Standing Committees be composed of the following members:—Messrs. J. H. Mackenzie, A. B. Petrie, John McKee, John A. Clark, and J. W. Slaven.

Mr. Polson entered a protest against the committee being selected in this summary way. It was usual, he said, to make representations of the various shades of opinion found to exist in bodies of this kind. It would be better he thought, to place on the committee members who had different opinions to those who were proposed in order that they might coalesce. He, himself, had been repeatedly left off these committees.

Mr. Slaven disclaimed any intention of discriminating against Mr. Polson, and as far as he was concerned he would be happy to coalesce with Mr. Polson, or any who happened to be adverse with him.

The motion was carried, and the Council adjourned for 15 minutes to enable the committee to draft Standing Committees.

On resuming, Mr. Slaven read the report of the committee appointed to draft Standing Committees as follows:—

Your Committee appointed to draft Standing Committees beg to report as follows:—

EXECUTIVE AND FINANCE—Messrs. Slaven, Mackenzie, Petrie, Lawrence and McKee.

EDUCATION—Messrs. Mackenzie, Clark, Buchanan, McKee and Lawrence.

BY-LAWS AND LEGISLATION—Messrs. Petrie, Daniels, Jordan, Clark and D'Avignon.

ENTRANCE—Messrs. Daniels, Polson, Jordan, Buchanan and McGregor.

J. W. SLAVEN, Chairman.

Moved by Mr. Mackenzie, seconded by Mr. Buchanan, that the report be adopted. Carried.

Mr. Petrie moved, seconded by Mr. Daniels, that the following members of the council be elected members of the Building Committee:—J. J. Hall, John A. Clark, C. D. Daniels and A. B. Petrie. It was necessary to meet the architect this afternoon or evening in order to hurry on the work. Carried.

Mr. Lewis then read the report of the Board of Examiners:

"Your examiners beg leave to report that the fourth semi-annual examination was held in the College Building, May 11th, 1891. One hundred and ten candidates offered themselves for examination.

Moved by Mr. Clark, that the report be referred to the Education Committee. Carried.

Moved by Mr. John A. Clark, seconded by Mr. John McKee, that the minutes of semi-annual meeting of January, 1891, and special meeting of April be referred to the Executive and Finance Committee for inspection and correction, and that they report to this Council. Carried.

The Registrar then read his report and the report of the auditors.

The reports were then referred to the Executive and Finance Committee.

## COMMUNICATIONS.

Mr. Lewis—I received a communication on Saturday, and wrote the president, but he did not receive it. It is from Mr. Hobart, of Kingston:

"DEAR SIR,—Having heard some rumors of crooked votes in my electoral division No. 2, I thereby demand a recount of the said votes and enclose you cheque to cover all expenses. Let me know the date, and I will be hand. Yours truly, G. S. HOBART.

The cheque was \$25.

Mr. Polson—Do I understand the proceedings were not conducted by you regularly, Mr. Lewis?

Mr. Lewis—I do not know.

Mr. Clark explained that he did not receive the communication, and consequently made no appointment. The matter came under by-law No. 16, page 23. The protest must be made within 30 days of the election.

The president, Mr. Hall, then asked Mr. Lewis whether the terms of the by-law had been complied with as to the security put up and the date at which notice was received.

Mr. Lewis replied that the terms were complied with.

Mr. Lewis then read a communication from Mr. J. C. Perry, of Philadelphia.

Isaac G. Lewis, Registrar Ontario College of Pharmacy:

DEAR SIR,—Enclosed find \$4 and certificate from the actuary of the Philadelphia College of Pharmacy, certifying to the fact of my being a graduate of the above named college. I wish to get registered in Ontario. If it is necessary to furnish other information, kindly let me know. Yours truly,

June 5th, 1891.

J. C. PERRY.

Referred to Educational Committee.

A letter was received by the president of council from the president of the British Pharm. Association, dated Bloomsbury Square, London, June 8th, 1891, conveying thanks to the Council for the congratulatory address which was sent to them. Signed Michael Carty, President.

The document was placed on file.

A communication was then read from Joseph Albert Brown, asking to be registered as chemist and druggist, having inadvertently failed to apply in the prescribed time.

Referred to Committee on By-laws and Legislation.

Communication from J. B. Meacham, Niagara Falls, asking for remission of \$1 off the fees paid by him for a portion of the year.

Referred to By-law and Legislation Committee.

Communication from Wm. Thornton, Calgary, N. W. T., stating that he had paid \$10 for his diploma, and claiming that the proper fee was \$6, and asked a refund of \$4.

Referred to Committee on By-laws and Legislation.

A similar letter from Geo. A. Fear, of Goderich, was referred to the same committee.

Communication from A. E. Kelly,

\*NOTE—The result of election was given in our July issue.

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## Department of Pharmacy

### DETROIT COLLEGE OF MEDICINE.

ANNOUNCEMENT 1891-92.

The Second Session of the Department of Pharmacy [DETROIT COLLEGE OF MEDICINE] will begin on WEDNESDAY, SEPTEMBER 23RD, 1891, in the College Building, corner of Mullett and St. Antoine Streets.

#### FACULTY:

THEO. A. MCGRAW, M. D.

Dean of Faculty.

J. E. CLARK, M. D.

Prof. General Chemistry and Toxicology.

EZRA J. KENNEDY, PH. C.

Prof. Theoretical and Practical Pharmacy.

GEORGE SUTTIE, PH. C.

Prof. Materia Medica and Botany.

E. C. SKINNER, M. D.

Prof. Pharmaceutical Jurisprudence.

For particulars, Announcement, Terms, etc., address

E. C. SKINNER, M. D., Secretary.

College Building, cor. St. Antoine and Mullett Sts.

Winnipeg, July 11th, '91, asking to be registered as druggist, having served an apprenticeship prior to the time when registration was necessary.

Referred to By-law and Legislation Committee.

Communication from Sydney S. Smith, Portage la Prairie, wishing to be registered.

Referred to By-laws and Legislation Committee.

Communication from R. T. Curry, wishing to get an extension three months.

Referred to By-laws and Legislation Committee.

Three apprentice's letters, John Howarth, John T. Clarke Campbell, and Mr. Woodward, of Belleville.

Referred to By-laws and Legislation Committee.

Communication from A. W. Dwyer, Westport, wishing to have fees remitted.

Referred to By-laws and Legislation Committee.

A communication from Mr. Mills, Hamilton, was referred to By-laws and Legislation Committee.

A letter from Christopher White with reference to an infringement was referred to Infringement Committee.

Communication from Mr. Nutting, of Cannington, was referred to Infringement Committee.

Communication from Albert T. Elliott, Minden, asking for his diploma, which was cut off for one year.

Referred to Education Committee.

Communication from Albert S. Knowlton, wishing to get his diploma, was referred to Education Committee.

Communication from David Burley, who holds a certificate in the State of Michigan, wishing to have certificate in Ontario.

Mr. Polson moved that the letter be referred to Committee on By-laws and Legislation, and that this be an instruction to committee to report the names of examining boards who have agreed to accept the diplomas of the old C. P.

Communication from W. E. Ellis, Fenelon Falls, re J. W. Ingram, fine, which was imposed on his apprentice, which fine Mr. Ellis claimed was not legal, asking that the \$10 of the fine received by the College be remitted to him.

Moved by Mr. McKee, seconded by Mr. Daniels, that W. E. Ellis, Fenelon Falls, be returned \$10. Carried.

Communication from A. B. Petrie, jr., Guelph, who holds certificate in Philadelphia, asking for certificate in Ontario, and enclosing \$4.

A donation of \$25 was received from Lyman, Knox & Co.

Moved by Mr. Jordan, seconded by Mr. Polson, that the Council accept the donation. Carried.

A donation was also received from Parke, Davis & Co., who desired no official recognition of it.

The registrar handed in several accounts which were referred to the Executive and Finance Committee.

Mr. Polson moved that the registrar

submit to the council a statement showing the amount of legal expenses incurred by the college since the election of council, July, 1889; how and for what purpose and by whom incurred.

Mr. Petrie moved in amendment, seconded by Mr. John McKee, that the resolution of Mr. Polson be amended by adding "from the year 1884 up to the present time."

Mr. Polson—I wish to amend my motion and put in the words "showing the amount of legal expenses incurred since 1885, statement to embody payments under the head of legal expenses, beginning with the organization of the council, and succeeding terms."

The chairman ruled that Mr. Polson's resolution was out of order, he having altered the substance of it.

Moved by Mr. L. T. Lawrence, seconded by Mr. Clark, that the treasurer-registrar prepare an itemized statement of the expenditure upon matters of a legal nature that have been incurred by the College from August, 1883, to August, 1891, each year that was incurred and when payments were made upon such. Carried.

Moved by Mr. Petrie, seconded by Mr. Mackenzie that the council adjourn for ten minutes for the purpose of electing chairmen of committees. Carried.

Report of committees:—

Mr. Slaven was appointed chairman of the Committee on Executive and Finance.

Mr. Mackenzie was elected chairman of Committee on Education.

Mr. Daniel was chosen chairman of the Committee on Infringement.

Mr. Petrie was elected chairman of the Committee on By-laws and Legislation.

Mr. Petrie stated that his son wished to undergo the usual examination, and moved that the communication be withdrawn.

Mr. Lawrence seconded the motion.

Mr. Jordan spoke in favor of the position taken by Mr. Petrie.

Mr. Polson thought it would be unwise to allow young men to go to the United States to get their diplomas and come to practice here.

On motion of Mr. Jordan the Council adjourned till 11 a. m. to-morrow.

#### SECOND DAY.

Toronto, Aug. 5th, 1891.

The Council met at 11.20 a. m. in the Board room.

The chairman called for the report of the Building Committee.

Mr. Clark stated that the chairman of the committee had been called away, and consequently they were not ready to report.

None of the other committees being ready to report, the council adjourned to meet at 3 p. m.

The Council resumed its session at 3.30 p. m.

The members present were Messrs Buchanan, Jordan, Polson, Hall, Slaven,

Mackenzie, McKee, Lawrence, Clark and Daniels.

#### PRESIDENT'S ADDRESS.

The president, Mr. John J. Hall, read the following address to the council:

*To the Members of the Council:*

GENTLEMEN,—I fully appreciate the honor you have done me by electing me president for the next two years. I am not unmindful of the fact that many of you are better qualified for the position, or of the good men who have preceded me, notably the retiring president. I ask no greater compliment than to have it said of me at the expiration of my term of office, that in a measure I was a worthy successor of these men. The responsibility resting upon all, especially the executive head of this Institution who does his duty, may well cause one to hesitate before accepting office. The unanimous and generous manner in which you have tendered me the position, however, is an assurance that I will at all times have that sympathy and moral support, which alone will enable us to accomplish what the public have been led to expect, and what we hope to accomplish from the important measures that will claim your attention the next two years. Whatever our differences may have been in the past, I ask each to hesitate before re-opening such. Let us differ if we may, and undoubtedly will, giving to each other credit for honesty of purpose. It must be acknowledged by anyone who is at all observant of the signs of the times that the practice of pharmacy in this and the adjoining country is undergoing a process of evolution by which there is a grave danger of the retail pharmacists being ground between the upper stone of the high priced, slightly, palatable mystic formula, free sample, loudly advertised nostrums and ready-made prescription combinations of manufacturing pharmacists, and the nether stone of the rapidly ascending wholesale price and cut rate retail price of patent medicines, the low grade toilet articles, soaps, perfumery, etc., of the modern carry-all stores.

Never before have such inroads been made both upon our professional status and profits; and never before has faith in the efficacy of medicine been submitted to a more severe strain. Already rumblings of the approaching conflict may be heard in the addresses of such men as President Lloyd, of the American Pharmaceutical Association, Professors Bushy, Remington Eeles, Lucas and others.

President Lloyd in his address at Detroit speaking of manufacturing pharmacists, said: "He did not deny that these establishments were indirectly antagonistic to the apothecary, and that they had revolutionized the medicine of the country, and, without intending to do so, were injuring the apothecary. With so much effort put forth by the manufacturers to captivate the public and the medical profession, and so little by the druggists, the only wonder is that so many legitimate prescriptions are written."

Mr. Ricksecker, representing the National Pharmaceutical Association, at the meeting of the association of dealers in proprietary articles at Washington, in September last, said: "I mean to say that we can make just as good preparations as those of the manufacturing pharmacists, and the result has been that we have driven out of the market, as far as we are individually concerned, Bromidia, Listerine, and Fellow's Syrup of Hypophosphites by others, which we ourselves make, and the physicians prescribe them."

While there is much to admire in the modern, slightly, Empirical American pharmacy, and to commend its use, and which is in accord with the eye, there is danger of the characteristic potency of the drugs of our Pharmacopoeia losing their identity, and of the retail pharmacist being relegated to the level of shop-keepers, in which the primary consideration seems to be the quantity and cheapness, rather than quality and accuracy of the medicines, for the manufacturer to sell his wares. It may not be possible or desirable to even retard the tide of its progress. Let us rather get into the stream, endeavor to

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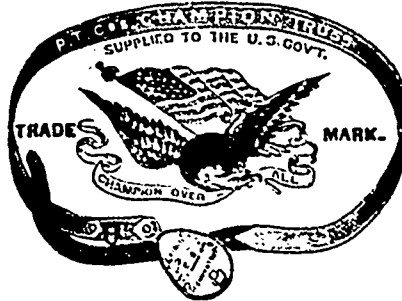
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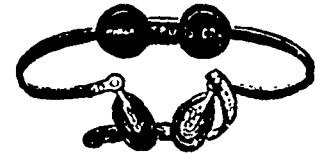
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In 1 and 5 pound Bottles, Cans and Bulk.

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**CRUDE CARBOLIC ACIDS** of all kinds, percentage of acid guaranteed.

Free from sediment.

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FRANKFORD, PHILADELPHIA, PA.

keep it within legitimate bounds, eliminate the driftwood, and so keep the water pure and save what we can as our rightful position. How best to accomplish this is the great question of the day with pharmacists. You have—and I think rightly—concluded to join the movement and keep abreast with the leading colleges in Philadelphia, New York and Chicago, by devoting more time to practical work.

Professor H. H. Rusby, in his address at Old Point Comfort, said: "We must not tell our students about the things of which we are teaching, we must make them personally familiar with them." The old days when sleepy attendance upon a course of lectures, however learned their source, could be considered a course of instruction, have gone, it is hoped, never to return. Better if anything is curtailed that it be the didactic lecture rather than the laboratory course, so as to ensure that the pharmacist of the future shall be able to master the anomalous position required of pharmacists in this country, with the legal standard of the "British Pharmacopœia" and the "Popular Standard,"—the official, unofficial and Empirical preparations of the United States. To accomplish this end you now demand of all apprentices:—

- A 3rd Class certificate or its equivalent.
- Four years' apprenticeship.
- Two terms at a College of Pharmacy.
- Twenty-one years of age.

You are giving one third of the instruction in the college to practical work. You are spending \$15,000, in addition to what you have, almost solely for practical work. You have engaged an experienced instructor for this department fresh from years of teaching in the New York College of Pharmacy and manager of one of the largest and most advanced pharmaceutical laboratories in the centre of modern pharmacy, New York City. This should ensure a class of men in whose keeping the future of our profession will be safe. In our zeal to protect our business, let us never forget that Boards of Pharmacy, and Pharmacy Acts are made for the protection of the public, and not foster any class or even to promote pharmaceutical education beyond what is required for public safety. Our examinations should be as simple and practical as possible. We must use wisely and economically the excellent Pharmacy Act which the government has committed to our care.

You may find it necessary in the near future to lengthen our college term, to give the students time to thoroughly absorb and benefit by the instruction given.

The question of reciprocity with Quebec has been left over for you to deal with.

Affiliation with Toronto University is also an important matter, the successful completion of which will reflect credit upon this council. The new addition to the college building will be ready for occupation in September. I would ask you to consider whether the event should not be made a red letter day in the history of our college by making known its superior advantages and to introduce our new staff to the Educationalists of Toronto and the pharmacists of the Province. It appears to me to be an opportune time and that such an event would be appreciated by all parties and do much good to our College.

I desire to congratulate the staff and those who have assisted in preparing the last college announcement. It is the best I have seen anywhere; also the committee in whose hands was left the arranging and preparing of the By-laws and Act in pamphlet.

The question of the *Journal's* contract was an issue in the late election; its terms are objectionable to the druggists of the country and we should make an effort to have the same modified.

JONS J. HALL,  
President.

Moved by Mr. Mackenzie, seconded by Mr. McKee, that the President's excellent address be placed on file.

The motion was carried.

#### REPORTS OF COMMITTEES.

Mr. Slaven then read the report of the Executive and Finance Committee as follows:—

"Your Committee on Executive and Finance beg to report that they have examined the Registrar-Treasurer's reports, found them correct, and recommend that they be adopted.

Your Committee further report that they have examined the following accounts, found them correct, and recommend that they be paid:—

Globe Printing Co.....	\$ 21 00
Mail ".....	21 00
Geo. Pearsall, lock and spring....	1 65
Toronto World.....	6 00
Wm. Rebell, engrossing diploma..	1 60
James Bain & Co.....	32 30
Elias Rogers, coal.....	24 00
Shuttleworth's account ( <i>Journal</i> )..	534 30
Rolphie, Smith & Co., engraving....	12 00
Lynan, Smith & Co.....	1 26
".....	3 50
Elliott & Co., drugs.....	41 18
Monetary Times.....	285 35
John A. Clark, expenses.....	11 85
Edgar & Malone's account.....	335 00

Total.....\$1365 53

Moved by Mr. Slaven, seconded by Mr. Lawrence, that report No. 1 of the Executive and Finance Committee be received. Carried.

Moved by Mr. Slaven, seconded by Mr. McKee, that report No. 1 of the Committee on Executive and Finance be adopted. Carried.

Moved by Mr. Buchanan, seconded by Mr. Daniels, that W. Hargraves and Jas. Watt be appointed auditors.

Moved and seconded that President cast his ballot in favor of the motion. Carried.

Moved by Mr. Slaven, seconded by Mr. Mackenzie, that George A. McCann and William Murchison be appointed scrutineers.

Moved by Mr. Mackenzie, seconded by Mr. Slaven, that the President cast his ballot in favor of the motion.

Mr. Polson objected to this mode of appointing scrutineers.

The motion was carried.

Mr. Polson moved, seconded by Mr. Jordan, that the council adjourn to meet at 11 a. m. Thursday morning. Carried.

#### THIRD DAY.

Toronto, Aug. 6th, 1891.

The Council met at 11 a. m. in the Board Room.

There were present Messrs. Hall, Clark, Jordan, Slaven, Petrie, Mackenzie, D'Avignon, Lawrence, McKee, Polson, Buchanan.

The Registrar read a letter from Mr. McGregor, stating that he was starting on a trip to England but expected to be back in time for the August meeting, and resigning his seat on the Board in case he could not get back.

A communication was read from Mr. J. E. D'Avignon as follows:

"I disclaim the election and vote under protest."

#### REPORT OF EDUCATION COMMITTEE.

Mr. Mackenzie read the report of the Education Committee as follows:

"Your Committee beg leave to report as follows:—

Clause 1—Communication of Albert E. Evans, recommend that a diploma be granted to him as requested according to resolution of Council, August 1890.

Clause 2—Application of J. C. Perry, graduate of Philadelphia College of Pharmacy, your committee consider that a diploma obtained from the above College of Pharmacy is sufficient evidence of qualification to entitle the holder thereof to register under clause 15 of the Pharmacy Act of Ontario, and your committee refer the matter to the council for action.

Clause 3—Your Committee begs to state that the library fund up to the present time has not been expended, owing to the unsettled condition of the building, and report that your committee expect to carry out the recommendation adopted by this council at its last meeting before the approaching lecture term begins.

Clause 4—Your Committee would recommend that apprentices, whose terms of service shall have been completed by Jan. 1st, 1892, be not required to pass a matriculation examination of the college, but they will be required to furnish a deed properly authenticated, certificates of this qualification, or of the qualification required under our Act of 1884.

Clause 5—Your Committee would recommend that an examination in practical chemistry should be established by this college in addition to the present examination on chemistry, that for the present this examination in practical chemistry should be required only from the candidates who have taken full junior and senior courses at this college, and are entitled to the diploma; and that this committee be instructed to prepare details and regulations for such examination, and submit the same to this council at its next semi-annual meeting.

Clause 6—Your Committee would recommend that the chairman of this committee and the faculty of the college prepare a course of study for apprentices to pursue during the years of their apprenticeship, so that a better ground work may be laid, and thus make their diploma more valuable, and that this course of study in future be published in the annual announcement.

Clause 7—Your Committee would recommend that the Committee on Education be empowered to confer with the authorities of Toronto University to ascertain if they are willing to grant affiliation with this college and upon what conditions, and that this committee report to the council at its next semi-annual meeting.

Clause 8—In view of the scanty accommodation for practical work which is now made in the college, your committee would recommend that for the proper performance and carrying out of that work that the sum of \$1500 be apportioned for the furnishing of apparatus for the chemical and laboratorial work.

Clause 9—Your Committee recommend that the following gentlemen be appointed examiners:—

- Chemistry—B. Jacques, Toronto.
- Materia Medica—J. T. Pepper, Brussels.
- Pharmacy—F. T. Harristou, London.
- Botany—C. R. Sneath, Toronto.
- Prescriptions—A. R. Fraser, Toronto.
- Dispensing—Wm. Murchison, Toronto.

Clause 10—After consultation with the Building Committee would advise that as the college building will not be in proper condition for the carrying on of the work in September, as announced, your committee deem it advisable to recommend that the lecture term be not commenced till Oct. 1st, which will alter the date of college curriculum as follows:—

- Matriculation examination, Sept. 29th.
- Result posted Sept. 30th, '91.
- Formal opening Junior term Oct. 1st, '91.
- Laboratory classes commence Oct. 5th.
- Junior examinations, Dec. 21st, 22nd and 23rd.

Results published Dec. 26th.  
Course classes Dec. 23rd.

And we beg to state that such change will not interfere with the amount of instruction to be

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given during the Junior term, as professors will give the number of hours of instruction as laid down in the announcement of the 9th, and your committee also recommend that the change in date be properly advertised by the registrar.

Clause 11—We hereby return to you the report of the Board of Examiners, which draws attention to the case of Mr. Clark, of St. John, N. B., who attended the college at its last session and could not be received for examination by the registrar, but who, without paying therefor, took the examination and obtained a good rating. Your committee recommend that the council make provision to amend the formal certificate of students who may desire to obtain instruction at our college.

Moved by Mr. Mackenzie, seconded by Mr. Lawrence, that the report of the Education Committee be received. Carried.

Moved by Mr. Mackenzie, seconded by Mr. Clark, that the report of the Education Committee be adopted.

Mr. Polson suggested that the council should go into Committee of the Whole, and discuss the report clause by clause.

Moved by Mr. Mackenzie, seconded by Mr. McKee, that the council go into Committee of the Whole on report of Education Committee. Carried.

The first clause, that a diploma be granted to Albert E. Evans, was carried.

On clause No. 2, "re the application of J. C. Perry, graduate of Philadelphia College of Pharmacy, your committee consider that a diploma from the above College of Pharmacy is sufficient evidence of qualification to entitle the holder thereof to register under clause 15 of the Pharmacy Act of Ontario, and your committee refer the matter to the council for action."

Mr. Mackenzie, in speaking to the report, stated that the Philadelphia College of Pharmacy was of a high standard. In practical work heretofore they were in advance of our college, but with the increased additions to the pharmaceutical and chemical laboratories we would now compare favorably with any college in the world.

Mr. Polson took exception to the statement that the Philadelphia standard was higher than the Ontario standard. He submitted the following resolution:

"That in view of the fact that the profession of chemist and druggist is already overcrowded, necessitating the immigration of a large proportion of the graduates to the United States, and inasmuch as the standard of education of the Ontario College of Pharmacy is as high as the very best schools of pharmacy in the U. S., and that the examination to which our graduates might be submitted would impose no hardship upon them, because they could pass it easily, be it therefore resolved that it is inadvisable to register Mr. Perry, and increase the already too great competition in the Province of Ontario."

Mr. D'Avignon seconded the motion. They did not recognise Ontario diplomas, and he thought the Ontario council would be humiliating themselves by recognizing this diploma, no matter how high their efficiency.

Mr. Clark spoke in favor of granting the diploma; it was not a question of exchanging diplomas, it was simply recognizing another college as a reputable College of Pharmacy. Their curriculum showed that they went into the subjects more minutely than we did in Ontario.

Mr. Petrie stated that he knew the young man and that he was hard working and industrious.

Mr. Hall thought the diploma should be granted.

Mr. Jordan urged that the council should not do anything to belittle their own certificates; they should not be too eager in asking an exchange.

Mr. Polson's resolution was put to the committee and lost.

The balance of the report was adopted clause by clause.

The committee rose and reported that the report was adopted without amendment.

Moved by Mr. Mackenzie, seconded by Mr. Clark, that the report of the Education Committee be adopted.

Moved by Mr. Polson, seconded by Mr. D'Avignon, that the report of the Committee on Education be amended by striking out clause No. 2, and inserting the following: "That in view of the fact that the profession of chemist and druggist is already overcrowded, necessitating the immigration of a large proportion of the graduates to the United States, and inasmuch as the standard of education of the Ontario College of Pharmacy is as high as the very best schools of pharmacy in the U. S., nevertheless diplomas of this college afford no privilege to our graduates without first undergoing the examination at the hands of the State Boards, it is inadvisable to register Mr. Perry as a member of this college without examination, as it would undoubtedly open the door for the admission of graduates of other colleges, and thereby increase unduly the already too great competition in the Province of Ontario."

Mr. Clark moved in amendment to the amendment, seconded by Mr. Daniels, that this council, while recognizing the fact that the Province of Ontario is already amply supplied with men who are engaged in the business of pharmaceutical chemist, consider that the adoption of the resolution would have the effect of closing some of the States where already the diploma of the Ontario college is received as evidence of qualification for registration without examination, therefore this Board cannot approve of this amendment to the report.

Mr. Polson rose to a question of order, claiming the amendment was out of order.

The chairman held the amendment in order.

The amendments were put to the meeting and lost.

The original motion was carried by the council—

YEAS—Messrs. Slaven, Mackenzie, Petrie, McKee, Clarke, Buchanan, Lawrence, Daniels, Hall.—9

NAYS—D'Avignon, Jordan, Polson.—3

Moved by Mr. Clark, seconded by Mr. McKee, that the report of the Board of Examiners be adopted. Carried.

Moved by Mr. Polson, that the council adjourn till 3.30 p. m.

#### REPORT OF INFRINGEMENT COMMITTEE.

Mr. Buchanan read the report of the Infringement Committee as follows:—

"Your Committee beg to report that owing to the absence of the chairman of past committee, a report of past work cannot be presented at this time by your committee. A communication regarding Mr. Nutting, of Camington, re the fine imposed on him, your committee would advise that registrar notify Mr. Nutting that no refund can be made as he acknowledges that he was a silent partner and left himself open to the penalty of the law. Also regarding the case of infringement at Elmdale of one W. J. McGuire, a legal action should be taken. Your committee would recommend that a detective be engaged either by the month or year, with the understanding that he shall assist the registrar with clerical work. Re members in arrears, would recommend that the registrar be instructed to make a draft on such parties in arrears."

Moved by Mr. Jordan, seconded by Mr. Daniels, that the report be adopted, subject to the determination by the council of the matter left for their consideration. Carried.

Mr. Daniels moved, seconded by Mr. Jordan, that the registrar be empowered to sell the carpet removed from the platform in the old examination hall, registrar to fix the price.

Mr. Daniels enquired if any headway had been made in the negotiations with Quebec in reference to interchange of diplomas.

Mr. Clark stated that no further communications had been received.

Mr. Daniels moved, seconded by Mr. Jordan, that the president be authorized to continue negotiations with the Pharmaceutical Association of Quebec with reference to interchange of diplomas. Carried.

Moved by Mr. Daniels, seconded by Mr. Slaven that the council adjourn till 11 a. m. Friday. Carried.

#### FOURTH DAY.

Toronto, Aug. 7th, 1891.

The council met in the Board Room, the following members being present:—Messrs. Hall (president), Slaven, Buchanan, McKee, Clark, Polson, D'Avignon, McKenzie, Daniels and Jordan.

#### BY-LAWS AND LEGISLATION.

Mr. Jordan read the report of the Committee on By-laws and Legislation as follows:—

"Your Committee beg to report:—

1. *Re E. A. Tanner*: his case was considered, and your committee recommend that his request be granted on presentation of certificate of registration by New York City and County Boards of Examiners, showing that his course as to terms of apprenticeship is in accordance with our law.

2. *Re David Burley*, holding certificate in State of Michigan, asking registration from us; committee recommend that it be not granted.

3. *Re A. W. Dyer*: your committee cannot recommend that his request be granted.

4. *Re W. J. Fielding*, asking that three months additional time served before registration be allowed him; recommend that his request be not granted.

5. *Re Sydney S. Smith*: Your committee consider that there is no power given under our by-law permitting us to accept a certificate of having passed the junior examination of the Manitoba College of Pharmacy in place of our junior examination.

6. *Re case of J. D. Meacham and G. A. Fear*, asking for refund for portion of annual fees



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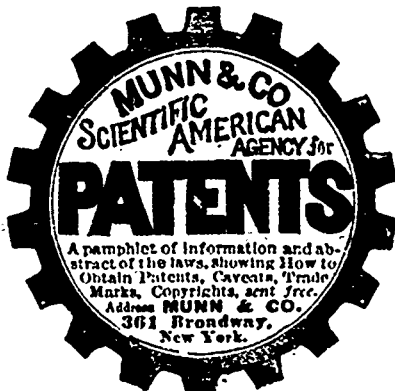
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- Hagyard's Black Oil,
- Hagyard's Condition Powders,
- Dr. Wilson's Magnetic Ointment,
- Hagyard's Cattle Spice,
- Dr. Fowler's Extract Strawberry,
- Dr. Boyer's Galvanic Fluid,
- Dr. Fife's Worm Lozenges,
- National Pills,
- Egyptian Salve,
- Dr. Abernethy's Worm Candy,
- Freeman's Soothing Syrup,
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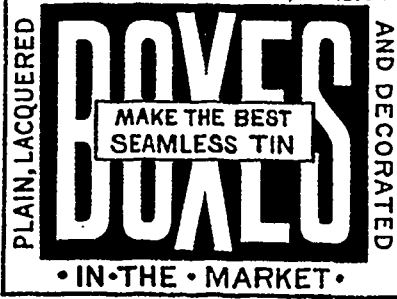
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paid by them; committee recommend that their request be not granted.

7. *Re S. Knowlton*: committee recommend that the registrar be instructed to inform him that the holders of diplomas in Manitoba are entitled to registration in Ontario.

8. *Re William Thornton*: your committee find that the charge of \$10 for diploma and registration is the usual one, and that his application cannot therefore be entertained.

9. *Re John Howarth*: recommend that his request that six months time served in 1880, without registration be allowed, cannot be granted.

10. *Re E. S. Clayton*: your committee recommend that he cannot ante-date his registration as an apprentice until proof that he was under the care and tuition of a registered pharmacist during the time he asked to be registered for.

11. *Re John T. Clark and E. J. Mills*: your committee advise that their papers are insufficient, and that the registrar be instructed to ask them to furnish council with certificates as required by Act.

12. *Re A. D. Kelly*: committee recommend that registrar ask him to furnish proof of his having complied with the provisions of the Act respecting registration of apprentices, because he has given no dates in his application.

13. With reference to Mr. Polson's resolution, re examining boards with whom an interchange of diplomas has been agreed upon, or that have agreed to accept the diplomas of the Ontario College of Pharmacy, the following State Boards have agreed to accept our diplomas as sufficient evidence to entitle holders to register without examination:—New York City and County, Alabama, Missouri, Connecticut, New Jersey, Georgia, District of Columbia, Dakota, Florida, Wisconsin, Illinois and South Dakota is waiting further communication. It is possible as communications have already taken place there will be no difficulty. The following Boards have been promised an interchange of diplomas:—Great Britain, City and County of New York, Wisconsin University and Manitoba.

14. Your Committee have carefully considered the application of John A. Brown for registration and thoroughly sifted the evidence submitted, and fail to find proof that he was engaged in business as a chemist and druggist on his own account prior to 1871, but on the contrary, very strong evidence showing that he was not engaged since 1871. The committee cannot therefore recommend that his application be granted.

All of which is respectfully submitted.

Moved by Mr. Jordan, seconded by Mr. D'Avignon, that the report of the Committee on By-laws and Legislation be received and discussed in Committee of the Whole, clause by clause. Carried.

The council went into Committee of the Whole, Mr. Slaven in the chair.

The first 13 clauses were passed in Committee without amendment.

On clause 13 Mr. Polson moved the following resolution: "That it is highly important in the interests of the graduates of this college that the whole question of reciprocal interchange of diplomas with State Examining Boards, and that this be an instruction to the Committee on Education to report in detail the exact basis on which such interchange shall be made, or if advisable that such interchange shall be made at all.

After some discussion, Mr. Polson's resolution was put to the council.

The resolution was lost.

Clause 13 was carried.

On clause 14, Mr. Brown's application for registration.

Mr. Brown appeared before the committee by leave of the committee, and urged them to reconsider their decision.

He claimed that the affidavits he produced showed that he was in the drug business prior to 1871, and therefore entitled to registration without examination.

The clause was amended by striking out the last portion of the clause, which stated they found the evidence contrary to Mr. Brown's statements.

The clause was then carried.

The committee rose, and reported that the report was passed as amended.

Mr. Clark moved, seconded by Mr. McKee, that the report of the Committee on By-laws and Education be referred back to the committee for amendment by adding thereto the resolution of council in August, 1884, re recognition of diplomas or certificates, said motion being moved by J. E. D'Avignon, seconded by Mr. Saunders.

The motion was carried.

On motion of Mr. Polson, the council adjourned till 3.30.

Mr. Polson calls attention to the fact that in the matter of the recount of the vote in district No. 2, his seat, that Mr. Mills, barrister, and Mr. Fraser, druggist, were appointed scrutineers. He took exception to the appointment of a barrister for the position. It was a departure from the usual custom, and he wished to know the reason of it.

Mr. Hall explained that he acted on the advice of his friends in Toronto. It was difficult to get anyone to act in that capacity. These gentlemen had consented to act, and he saw no reason for making a change.

#### BY-LAWS AND LEGISLATION.

Mr. Jordan reported an amendment to the report of the Committee on By-laws and Legislation, as follows:

"In accordance with the resolution moved by Mr. Clark, seconded by Mr. McKee, the following excerpt from minutes of the Council August, 1884, is added to report:—Moved by Mr. J. E. D'Avignon, seconded by Mr. Wm. Saunders, that the holders of diplomas or certificates of the Philadelphia College, of the Pharmaceutical Society of Great Britain, be accepted by this College, the holders to be permitted to register without examination, and that the same privilege be granted to those holding the diploma of the Quebec Pharmaceutical Association and the Pharmaceutical Association of Manitoba, the Philadelphia College of Pharmacy, New York College of Pharmacy, Chicago College of Pharmacy, the Massachusetts College of Pharmacy, and the California College of Pharmacy, provided these Colleges accept similar diplomas from the Ontario College of Pharmacy." Carried.

#### EXECUTIVE AND FINANCE.

Mr. Slaven then read the report of the Executive and Finance Committee:—

"Your Committee beg to point out a clerical error in transcribing minutes of last meeting, page 320 of registered minutes, also page 21, March number *Pharmaceutical Journal*, in recording the votes on the amendment to the Report of the Special Committee, the yeas being stated to be 9 and nays 3, whereas the reverse was the case. The Registrar is hereby instructed to amend the minutes accordingly.

"We hereby present to the Council the agreements with Messrs. A. Y. Scott and C. F. Heelmer, duly executed in accordance with the resolution of the Council of February, 1891, and April, 1891. Referring to accounts for legal expenses embodied in Report No. 1 of this year, we beg to offer following explanations of same; amount for expenses re Brown Bill \$170.50. On the same line another man applied for registra-

tion, or rather to get an Act of Parliament to put him through: Mr. Mason I think the name was, in Nowmarket, \$27. That was withdrawn. The Registrar in the recent elections in getting advice from the solicitors, has run up a pretty good bill, \$63.52, leaving the ordinary legal expenses pertaining to the College matters during that time \$114.07, making in all \$375.15, less a rebate very generously taken off by the lawyers, \$10.15, at the rate of 11%, leaving a balance of \$63.

"Your Committee recommend that the sum of \$1500 asked by the Legislation Committee for the furnishing of apparatus and utensils for the chemical and pharmaceutical laboratories be granted.

"Your Committee beg to report that the following is the present state of finances, showing the amount of money required by contracts:—Contracts let or new addition, expenditure up to the present time on the same, and amount of money that will be required to meet the necessary expenditure to complete, equip, and furnish building for the opening of lectures in October 1st, 1891. Your Committee beg also to report the sum voted by the Council of \$13,950 be expended upon the new buildings, and \$1500 which I have already referred to. Your Committee think the new furniture required should be bought for about \$600, making in all \$15,050. Paid out on the above, we find \$4,318.20 already paid on the new building. Cash on hand \$5,125 in the Bank; liabilities, salaries, etc., \$2,258.34; net cash assets on hand, \$2,866.60. Now take the \$4318 from the \$15,050, it leaves \$10,731.85, deducting \$2,866.60, leaving a balance of \$7,865.11.

"Your Committee would recommend that a mortgage of \$7,000 be placed upon the property of the College to meet those necessary expenditures. On July 12, 1892, a mortgage of \$2,000 will be due and we will recommend a consolidation of the mortgage debt at that date.

Signed by all the members of the Committee.

Moved by Mr. Slaven, seconded by Mr. John McKee, that Report No. 2 of the Committee on Executive and Finance be adopted.

Mr. Polson moved that the report be not received, and that this council place on record its disapproval of the action of the council in ignoring the claims of graduates of the Ontario College of Pharmacy, and the appointment of a gentleman from the United States to fill the vacancy; thereby imputing a lack, and implying that the colleges of Ontario is not capable of supplying qualified men for such position; and that this council further express the opinion that the action of the council in so doing would not be justified, as men fully qualified for the position were available and should not have been passed over and the position awarded to an outsider; and that such changes tend to the disadvantage of the council in many ways and should have been avoided.

The motion was lost on the following division:

NAYS—Daniels, Clark, McKee, Slaven, McKenzie, Lawrence.

YEAS—Jordan, Polson, D'Avignon.

The report was received.

Moved by Mr. Daniels, seconded by Mr. Jordan, "Resolved that the members of the council of the Ontario College of Pharmacy have learned with deep regret the loss sustained by our fellow-member in the death of his brother, a member of this college, and the members of this council desire to extend to Mr. Petrie their heartfelt sympathy in his bereave-

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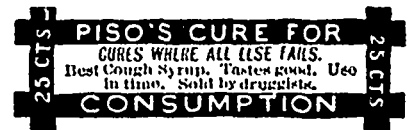
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MARTIN RUDY, Lancaster, Pa.

ment, and that the registrar be instructed to convey to Mr. Petrie a copy of this resolution." Carried.

Moved by Mr. Daniels, seconded by Mr. Clarke, that the Building Committee be instructed to have the wood work upon the present building, as well as the west wall of the building painted, at the same time as the painting is being done on the new building.

Moved by Mr. Mackenzie, seconded by Mr. McKee, that Mr. John A. Clarke, the Dean of the College, and Prof. Scott, of the Education Committee, be authorized to purchase apparatus for the chemical and pharmaceutical laboratories, to the amount of \$1,500, as recommended by this council. Carried.

Moved by Mr. Mackenzie, seconded by Mr. Slaven, that whereas an amendment to the report of the Executive and Finance Committee moved by Mr. Polson, seconded by Mr. D'Avignon, re the contract between this council and Messrs. Scott and Heebner, has been attacked, the apparent object of which is to mislead and misrepresent the late council's action before the druggists of the province by insinuating that a preference has been shown for an American as against a Canadian, for the position of teacher in pharmacy, is incorrect from the fact that no Canadian of experience as a teacher applied for the position in time to have his claim considered by the council, although the positions were thoroughly advertised. The same amendment asks that we retain Prof. A. Y. Scott as Dean for the second year, and thus try to make it appear that some injustice is being done to Prof. Scott by the action of the late council. We desire to place on record that the change was made at the request of Prof. Scott, and the harmony among the members of the staff is complete. We deplore the new attempt to stir up strife in the college, and thus keep alive the newspaper notoriety of the last three years; and we believe that such action cannot be considered in the best interests of the college.

The yeas and nays being called for, the following vote was taken:

YEAS—Slaven, Mackenzie, Clarke, McKee, Buchanan, Hall.

NAVS—D'Avignon, Polson, Lawrence.

Mr Polson moved, seconded by Mr. D'Avignon, that as both graduates of this college were applicants for positions on the teaching staff, the charge of discriminating against members of the college in the appointment of teachers embodied in the resolution was amply sustained.

The motion was lost on the following division:

NAVS—Slaven, Mackenzie, Clarke, McKee, Buchanan, Hall.

YEAS—Lawrence, D'Avignon, Jordan, Polson.

Moved by Mr. Lawrence, seconded by Mr. Jordan, re appl. of J. C. Perry, that the Registrar be instructed to advise Perry that his certificate from the Philadelphia College will be received by this College in lieu of the apprenticeship and

attendance at college, but that he will be obliged to pass the final examination of this college before he can be registered in Ontario as a chemist and druggist.

Moved by Mr. Mackenzie, seconded by Mr. Slaven, that the President be hereby instructed to execute the necessary papers to raise money by mortgage for the addition to the new building. Carried.

Moved by Mr. Polson, seconded by Mr. Slaven, that the Council adjourn till the first Tuesday in February next, at two o'clock p. m.

### Glucose to Cover the Taste of Iodine.

The administration of iodine uncombined is usually objectionable to the patient, yet in many chronic disorders it is preferred by some practitioners to any of its saline combinations. Its difficult solubility in water alone is a hindrance to giving it in this condition, owing to the quantity of a simple aqueous solution necessary for a dose. Sugar not in its ordinary condition is unsatisfactory as an admixture, but it is found that glucose can be utilized much more acceptably. Dr. F. P. Mann, of San Francisco, suggests the following formula, and prefers that the form of glucose should be that of molasses, and that the mixture should be made for at least one day before it is administered:

℞ Iodinii . . . . . 4 drs.  
Potass iodidi . . . . . 2½ drs.  
Aque pura . . . . . 4 oz.  
Syrup fuscus . . . . . 12 oz.  
Ess. gaulth . . . . . 2 drs.

M. ft. sol. sig. Take teaspoonful between each meal, with a little water.—*Pharm. Record.*

### Incompatibility of Cocaine and Bromide of Sodium.

In *La Pratique Medicale* for June 19, 1891, it is stated by M. L. Racine that having to prepare a solution of bromide of sodium and hydrochlorate of cocaine, on dissolving these substances in water and mixing them a grumous precipitate was formed, which gradually rose to the surface of the liquid. It seems that this precipitate is actually the cocaine, which is thrown out of solution, and the dangers of such a mixture are self-evident, for the cocaine floating on the top of the mixture would be given in a larger dose than was intended.—*Therapeutic Gazette.*

THESE BE TIMES IN WHICH WE LIVE, and the vocabulary grows apace. The new Dunglison must needs add to "housemaid's knee" the more recently discovered affections of "dentist's leg," "pitcher's arm" and "smoker's heart." The first two are English, therefore in good form; the last American, and for that reason inderscript—at least for the time. "Pitcher's arm" is very closely related to "losing club," while "smoker's heart" is said to be a little racket worked by cigar-makers, through coroners' physicians, against the omnipresent cigarette. "Den-

ist's leg" is confined to three cases reported in a foreign medical journal and a few kickers at American dental conventions. As for "housemaid's knee," it may be obviated or a cure effected by heeding the advice: "use a mop and pray standing."—*The Odontographic Journal.*

Kuro-Moji oil is the volatile oil of a Japanese Lauracea, the *Lindera ferlicia*.

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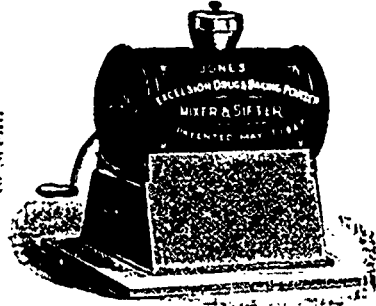
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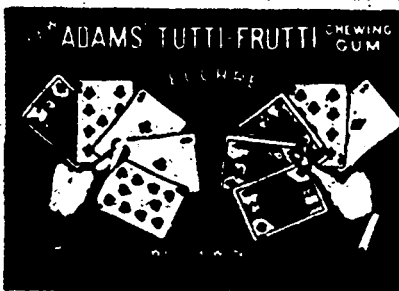
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## CANADIAN DRUGGIST.

WM. J. DYAS, EDITOR AND PUBLISHER.

AUGUST 15TH, 1891.

## Ontario College of Pharmacy.

The recent meeting of the Council of this College gave opportunity to the lay press, and through them the public, of seeing somewhat of what is being done in Pharmaceutical matters, not only in the matter of the education of Pharmacists, but also in measures pertaining to the public welfare. An editorial appeared in the *Toronto Mail* of recent date, in which credit is deservedly given to those who have charge of the affairs of the College. Speaking of the alterations now in progress at the college building, it goes on to say:

"This is but typical of what has been going on in regard to the constitution and administration of the affairs of the college itself. When its classes reopen, as they will in October, this important educational and diploma-granting institution will be in better form for work than it has ever been before. A healthy and energizing principle has been infused into its government and life; weak points have been strengthened; a fresh teaching staff has been appointed; and under the care of its present energetic and able council, the enterprise will no doubt take a higher position among institutions of its class than it has ever previously occupied."

## Slandering Druggists.

AGAIN the semi-occasional attack of druggist-on-the-brain has seized a newspaper man. Every little while the public are treated to some learned dissertation on the evil practices of druggists, their desperate grab for money, or their careless indifference to the public safety. Men who are anxious to make themselves in some way prominent, or who in their endeavours to concoct new schemes for their own individual aggrandizement, do not hesitate to ascribe to others what they themselves perhaps, in some other sphere, are in the habit of constantly indulging in, are always to be found. This time it is a newspaper Advertising Agency Manager, who has gallantly come to the rescue of the poor deluded public, who has, as it were, thrown himself into the breach and declared his intention of "holding the fort" against those "swindlers," "frauds," "substituters," and "robbers," under the name of druggists, who are daring to sell any medicine, or proprietary article, that is not extensively advertised,—we presume, especially, in the columns of the several newspapers which he represents. Mr. A. Frank Richardson, who is apparently very anxious to obtain good contracts from the leading proprietary medicine manufacturers of the United States, has caused to be inserted in these papers, articles, some of which are three and four columns in length, and in others as a leading editorial, all of which contain serious reflections on the business integrity of the druggist. He asserts most unblushingly that druggists constantly substitute other

remedies than those enquired for, and endeavour in almost every instance to persuade the purchaser against buying the advertised article. This charge, it is needless to say to our readers, in this country at least, and we believe the same may be said of the trade in the U. S., cannot be borne out by facts. There may be occasional instances where the greed of some men may persuade them to deery one preparation for the sake of selling one which yields a larger profit, but these instances even are very, very rare, and we believe the druggist is just as honorable in his relations towards the manufacturer and his preparations as any trader in the land. The whole sum and substance of these spasmodic attacks on a profession who are "head and shoulders" above those petty and sordid enough to make them, is the ambition to secure more advertising. Hear what Mr. R. says in an address delivered before the National Editorial Association:

"Is not this substitute scheme a robbery of the publisher, an insult to the unwary buyer, as well as a tremendous injury to the advertiser who is paying you perhaps hundreds of dollars to introduce his goods in your locality; and are you not in duty bound to use your utmost endeavors to prevent such petty swindling. You should, in my opinion, whenever you find a dealer resorting to this substitute fraud, expose and denounce him through your editorial columns, thereby protecting your own interests and that of the advertiser. The foreign advertiser annually loses thousands of dollars by this means. In my opinion, it is time that the publishers took hold of this matter in earnest—dead earnest—and I would respectfully suggest that before this association adjourns, some action be taken looking to this result."

It seems to us a great pity that any man, in order merely to further his own personal ends, should try to create a sense of distrust between the druggist and the general public, as well as between the manufacturer and the retailer.

## Books and Magazines.

Our thanks are due to *Meyers Bros'* *Druggist* for a copy of 100 *Dout's* in card form, suitable and very appropriate for the dispensing case.

\* \*

MODERN MATERIA MEDICA for pharmacists, medical men and students by H. Helbing, F. C. S., 2nd enlarged edition, 1891.

The drug and medical journals vie with each other in keeping the professional man posted in regard to new remedies, etc., but accurate as they may be, and comprehensive in their description of these remedies and their medicinal and therapeutical properties, the cursory reader frequently loses sight of, or it may be fails to retain the full import of these articles. In the work before us the writer has put together in a book of 109 pages those New Remedies which although not all recognized officially are nevertheless in constant use by many of our leading physicians in a greater or less degree, and at the same time with an eye to the requirement of the pharmacist as well as the general practitioner. The

work furnishes an excellent text book and is supplemented by an appendix with various tables, etc., forming a very valuable aid to the dispenser and prescriber. Published at the office of the *British and Colonial Druggist*, 21 New Bridge St., London, E. C.

\* \*

THE POCKET ANATOMIST. Founded upon Gray. By C. Henri Leonard, A.M., M. D., Professor of the Medical and Surgical Diseases of Women and Clinical Gynecology, in the Detroit College of Medicine. Fourteenth revised edition, containing Dissection Hints and Visceral Anatomy. Detroit, Mich., 1891. The Illustrated Medical Journal Co., Publishers. Cloth 297 pages, 193 illustrations; price, postpaid, \$1.00.

This book is issued on thin, though nicely glazed paper, and takes up but little room, though 300 pages in thickness. The plates introduced are photo-engraved from the English edition of Gray, and are therefore exact; most of them are full-paged, and where they are not, they are grouped together so as to save as much thumbing as possible. The useless "questions" are absent in this work, and their room given to needed illustrations or terse descriptions of the minor parts found in the several dissections made. The chapter given to "dissection hints" gives the lines of incision necessary to best expose the underlying organs, arteries, nerves or muscles. The chapter on Gynecological Anatomy can be found only in the more expensive work of Savage. The pronunciation of each anatomical term is given, be it artery, vein, nerve muscle, or bone. Over 100 pages are devoted to the anatomy of the special organs and viscera. The book has been honored by a re-printing in England after some three thousand copies had been sold over there by the American publishers.

\* \*

AMONG the notable features announced for publication in the September number of the *North American Review* are: "Anecdotes of English Clergymen" by the Hon. C. K. Tuckerman, late Minister to Greece, "A Plea for Railway Consolidation" by C. P. Huntington, President of the Central Pacific Railway; a reply to Goldwin Smith's article on "New Light on the Jewish Question" by an author who writes under the name of Isaac Besht Bendavid; The story of Cushing and the Albemarle, by the late Admiral Porter; "The Ideal Sunday" by the Rev. C. H. Eaton; "Co-operative Womanhood in the State" by Mrs. Mary A. Livermore; and "Hayti and the United States" by the Hon. Frederick Douglass, late Minister to Hayti. These are but a part of the contents announced, and among other features will be a discussion of the question "Is Drunkenness Curable?" to which Dr. Wm. A. Hammond, Dr. E. N. Carpenter, Dr. T. D. Crothers and Dr. Cyrus Edson will contribute.



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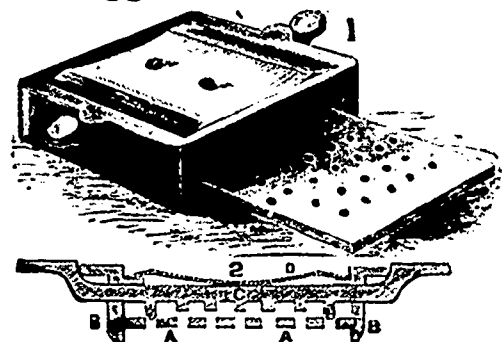
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## Pharmaceutical Uses of Extract of Malt.

BY JEAN GORDON, PH. G.

Although the use of extract of malt as an emulsifying agent and as a vehicle for various remedies is frequently mentioned in journals and pharmaceutical works, and manufacturing chemists have put upon the market a very large number of mixtures or emulsions of malt extract with cod liver oil, some of them so prepared as to be quite agreeable to the taste, yet I am not aware that the dispensing pharmacist has availed himself to any extent of its advantages in preparing mixtures when insoluble substances are to be suspended. I was first led to experiment with it on being asked by a physician to prepare an emulsion of naphthalin and to make it as pleasant as possible. The slight solubility of naphthalin in water renders most of its mixtures very unpleasant, and after trying many experiments it occurred to me that extract of malt might be used, it not seeming to possess sufficient medicinal activity to cause its use to be objectionable in the very small proportion necessary to form a good mixture. After rubbing the naphthalin in a mortar to a very fine powder, a definite quantity of malt extract is then added gradually, and triturated until a perfectly smooth mixture is obtained. The substance is now suspended, but the mixture is too thick to pour well from the bottle; it is then diluted by the addition of an equal volume of wild cherry, which not only renders the mixture fluid enough to pour out easily, but also imparts to it an agreeable flavor. The higher specific gravity of the malt extract causes the particles of the naphthalin to remain suspended, and its viscosity, even when diluted one-half, is sufficient to prevent it from floating on the top until after standing for some time, when slight agitation will restore a uniform mixture. In an emulsion of naphthalin with mucilage of acacia, a very large proportion of acacia must be used, and after standing for some hours the naphthalin will be seen at the bottom of the bottle, and it is only after the most vigorous shaking that a smooth mixture can be restored, if at all, it being very difficult to dislodge the sediment. Compressed tablets of naphthalin are prepared, but on account of its bulkiness and the large dose sometimes used, it is not a substance exactly suited to that form of administration, if by any means a preparation can be obtained that will to some degree mask the strong odor and taste.

In extract of malt it seems to be less soluble than in syrup, or mucilage of acacia, the mixture just described having scarcely any of the odor and even less of the taste of naphthalin unless held on the tongue until it has been partly dissolved by the fluids of the mouth. It was not the purpose of the physician to administer a medicinal dose of malt, hence only a sufficient quantity was used to make a satisfactory preparation—five grains of finely

powdered naphthalin being contained in one fluid dram.

Some of the resinous substances most frequently administered in form of emulsion yield with extract of malt mixtures equal in all cases to the acacia emulsions, and, in most instances, more agreeable to the taste, and of more attractive appearance. The unsightly appearance of both the tincture and resin of guaiac when made into an emulsion with acacia is well known to every pharmacist, and it is a remedy which is frequently prescribed. It would seem to be worth making an effort to improve upon the old emulsion. With the *Tincture of Guaiac* a good mixture can be made by stirring together, in a graduate, equal measures of extract of malt and afterwards tincture of guaiac, gradually added; care must be taken not to allow the tincture to come in direct contact with the sides of the graduate, and it is well to take the precaution to first wet the sides with the extract and syrup before the addition of the tincture. The mixture obtained in this way, while not as bright in appearance as either the malt extract or the syrup, does not assume the bluish color of the gum emulsion. After standing for a day it separates into two layers, the lower transparent and bright, the upper one having a slightly curdled appearance, but a slight shake of the bottle suffices to cause the layers to mix again. That the guaiac is contained in both layers I have determined by setting aside a portion in a narrow tube until the two layers had formed and examining them both; the lower one becomes opaque by the addition of water, but glass tubes or graduates containing it can be made perfectly clear and bright by simply rinsing with cold water, thus showing that the resin has been taken up or emulsified by the extract of malt.

With the *Resin of Guaiac* the method must be slightly different. It should be first rubbed thoroughly in a mortar with the extract of malt until a smooth paste is obtained, after which sufficient of the syrup of wild cherry is added to make the mixture fluid again.

With *Tincture of Asafetida* a mixture is obtained in the same manner as with tincture of guaiac, but to prepare a mixture from the gum resin, it is best to rub it first in a mortar with a small quantity of hot water to form a paste, then add the malt and syrup alternately in small portions; it can easily be made to contain 8 per cent.—double the strength of the U. S. P. *Mistura Asafetida*. An advantage of this over the official mixture is, that it does not have the exceedingly disagreeable smell of the latter and the taste is less unpleasant. Like the mixtures mentioned before the addition of water renders it opaque.

For the administration of the tincture and fluid extract of *Cannabis Indica*, malt extract answers very well, with these preparations the best result is obtained with the following proportions:

℞ Tincture Cannabis Indicae. .... ½ oz.  
Extracti Malti ..... 1 dr.  
Syrupi Pruni Virginianæ ..... ½ oz.

With *Copaiva* it is necessary to proceed much the same as in making an ordinary emulsion, starting with a small portion of the extract of malt in a mortar and adding with trituration alternately portions of *copaiva*, malt and syrup. The mixture retains about the color of the malt, forms two layers on standing, but is easily restored by agitation.

With other resinous tinctures and fluid extracts the results have been similar to those described, the ones selected for mention being those we are called upon most frequently to dispense, and are also typical resinous substances. Extract of malt, as prepared by the official process, or as found in the market prepared by the various manufacturers, is in itself too thick to dispense as a vehicle, hence it is necessary to use a diluent of some kind. I have selected the syrup of wild cherry for the purpose, because of its agreeable taste and slight odor of hydrocyanic acid. With an extract of malt made according to the direction of the Pharmacopœia, results were obtained identical with those from the commercial extracts; about the only difference noticed was in the color of the mixtures, some of the commercial extracts being of a darker color.

In summing up the result of my work in this direction, it may be said that in extract of malt we have a ready, inexpensive and equally good substitute for acacia in suspending and masking the taste of disagreeable, resinous and other insoluble substances, wherever its presence in small quantity is not found to interfere with the therapeutic action of the substance prescribed.—*Am. Jour. Phar.*

## Therapeutic Notes of Interest to Pharmacists.

BY H. M. WHELPLEY, M. D., PH. G.

THE vapor of vinegar is now used in the treatment of catarrhal as well as membranous croup. The medicinal action must be due to the acetic acid contained in the vinegar. Why not use the acid and be done with it?

*Acne*, or what is commonly called "pimples," is a disease both common and troublesome; young ladies especially are anxious to be relieved of the blemish, and resort to all kinds of patent face washes. To show how useless these are, and impress the necessity of medical advice, I quote the following from the pen of Dr. J. M. Winfield: "In nearly every case of acne in the female there will be found some menstrual or genital trouble. Almost all women have a temporary outbreak of acne at the menstrual period, and if there is a chronic rosacea, it is apt to be aggravated at that time."

*Red hands* annoy some persons. The following ointment has been proposed to correct the trouble and should be applied at night:

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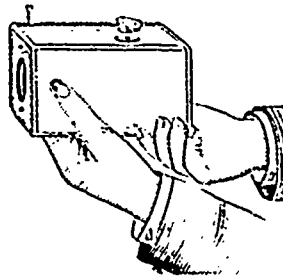
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℞ Lanolin ..... 3 ozs.  
Liquid paraffin ..... 1 oz.  
Vanillin ..... ¼ gr.  
Oil of rose ..... 1 gr.

Mix.

*Sick headache* can frequently be relieved by the following repeated every two hours:

℞ Citrate of caffeine ..... 1½ grs.  
Phenacetin ..... 2 grs.  
Sugar of milk ..... 4 grs.

Mix.

*Rheumatism* is now treated with the salicylate of lithium in place of the sodium salt. It is given in doses of seventy-five grains per day.

*Anti-vaccinationists* exist even in this enlightened age, but have little excuse for their peculiar views. A medical journal says that "Between 1870 and 1873, 20,575 persons died from small-pox in Holland. The authorities, becoming naturally alarmed, the vaccination law since that time has been strictly enforced, with the result that the mortality from variola has diminished every year. In the current year, for instance, up to the present, only one death from small-pox has been recorded throughout the country!"

*Pediculi pubis*, or "crabs," are an unwelcome visitor that often send their host to the druggist for blue ointment. A more cleanly application is.

℞ Dilute acetic acid ..... 500 parts.  
Corrosive sublimate ..... 1 part.

Mix.

The poisonous nature of the wash must not be forgotten.

*Gunpowder stains* are difficult to remove, but the assertion is made on good authority, that they will disappear when treated with biniodide of ammonium dissolved in an equal quantity of water. The solution must be painted over the affected skin, and then washed with dilute hydrochloric acid. But a small quantity should be treated at a time.

The treatment of *hiccough*, like that of nose-bleed, is often very difficult, and the results unsatisfactory. A medical journal says compressing the phrenic nerve and the pneumogastric in the neck with the index finger, will often cause immediate cessation of the spasms. The medicinal treatment consists in administration of a coffee-spoonful of vinegar mixed with a little powdered sugar; or the following formula may be used:

℞ Subnitrate of bismuth ..... 45 grains.  
Oxide of zinc ..... 1 drachm.  
Valerianate of zinc ..... 1 " "  
Powdered columba ..... 1 " "  
Powdered opium ..... ½ grain.  
Essence of anise ..... ʒ. 8.

Mix thoroughly, and give half a teaspoonful of this powder in a wineglassful of sweetened water.

*Muscular cramps* are sometimes very troublesome during pregnancy. Bolton relieves them by giving the sulphate of copper (probably the dried) in one-twenty-fifth grain doses.

*Cold in the head* can be cured, according to the *Medical Compend*, by taking a minimum dose of the fluid extract of gelsemium before retiring for the night.

*Rhus poisoning* can be cured, according

to Dr. W. S. Gilmore, by washing the infected parts with an infusion of ipecac. This is made of a strength of three drachms to the quart of water, and no heat employed. I would suggest that a solution of emetine would probably be still better.

Children born with sore eyes are not uncommon, and the present status of medical knowledge shows the disease is often the result of improper care at the time of birth. A French physician says:

In all children, immediately after birth, before the bath, the lids should be washed with an antiseptic solution, by means of a fine linen cloth, which is very suitable, or better still, by means of a small tuft of antiseptic wadding. For this purpose use either a solution of phenic acid, 1 to 100, or equal parts of boiling water and Van Swieten's fluid; or the following will suffice:

No. 1.

℞ Sublimate ..... 1½ grains.  
Tartaric acid ..... 3 grains.  
Distilled water ..... ʒ. ʒ. 2 drs.

Immediately after this the lids should be opened and a drop of the following collyrium allowed to fall into each eye from a dropper, a glass rod, or simply a roll of paper:

No. 2 (in an amber colored bottle).

℞ Silver nitrate ..... 2 grains.  
Distilled water ..... ʒ. ʒ. 2 drachms.

Some countries have laws requiring midwives to use the nitrate of silver solution.

*Obesity* is not a sin, but some people abhor it as if such were the case. A French journal says flesh can be reduced by simply eating of but one kind of food at a meal. The remedy is simple, but, we fear, not very reliable.

A favorite *cough mixture* with an eminent English physician is as follows:

℞ Syrup of tulu .....  
Syrup of wild cherry .....  
Tr. of hyoseyamus .....  
Hoffman's anodyne .....  
Water ..... equal parts.

Mix.

The dose is one teaspoonful.

*Whooping cough* is not contagious after six weeks according to Dr. Rogers.

The *teething* period with infants is often attended by severe intestinal troubles. Dr. Pierre washes the gums and then applies:

℞ Glycerin ..... 4 drachms.  
Potassium bromide ..... 8 grains.  
Cocaine hydrochlorate ..... 15 grains.

Mix.

A dentist contends decaying teeth should be used in masticating food as a means of arresting their destruction. He says the food should be dry. It is possible the foods will remove some of the germs which destroy the teeth, but I prefer to clean with a brush and proper wash or powder.

*Bee-stings* are treated by a Connecticut physician with fresh urine. It is possible that urea is of value in such cases, and accounts for the benefits derived. At any rate, it is worth a trial.

*Chronic bronchitis* has been treated with banana juice, which is prepared as

follows: "Cut the fruit in slices and place them in a glass jar; sprinkle with sugar and cover the jar, which is then enveloped in straw and placed in cold water, and the latter heated to the boiling point. The jar is next removed, allowed to cool, and the juice poured into little bottles." The dose is one teaspoonful eight or ten times a day. Some years ago I found banana juice on sale at the soda fountains in New Orleans, and its use was not restricted to those suffering with chronic bronchitis, or the dose to one fluidrachm.

*Quinine* is now given to patients in surgical cases to hasten the healing of wounds. Large doses are required.

*Tapeworms* are said to succumb to the following mixture, if given to a patient after one day's fast:

℞ Extract of male fern ..... 1½ drachms.  
Calomel ..... 7 grains.  
Distilled water .....  
Syrup gum Arabic ..... ʒ. ʒ. 1 ounce.  
Powdered gum Arabic, a sufficient quantity to make an emulsion.

*Freckles*. Dr. Halkins applies a drop of liquid phenol to each one, and says the result is satisfactory. This must be carefully done, and I would not advise the treatment of very many freckles at a time. Stretch the skin with the fingers, and see that the drop of phenol is not too large.

#### A Cheap Disinfectant.

At this season of the year, and during the summer and autumnal months, disinfectants should be kept ready at hand for needed use, but not in any measure to take the place of cleanliness.

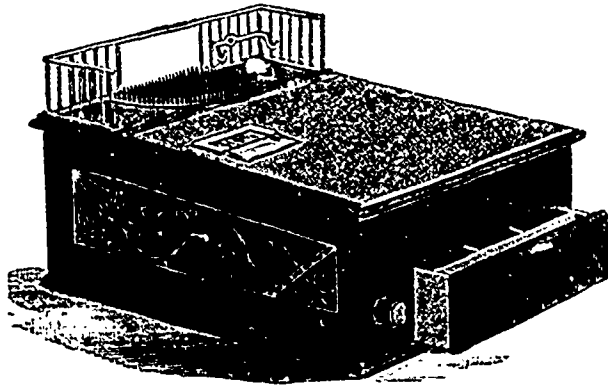
The nitrate of lead is the cheapest disinfectant known that fulfils its intent. It does not, however, prevent putrefaction. The chloride of lead is much more effective in all directions. It is made by dissolving a small teaspoonful of nitrate of lead in a pint of boiling water; then dissolve two full teaspoonfuls of common salt in eight quarts of water. When both are thoroughly dissolved, pour the two mixtures together, and when the sediment has settled you have two gallons of clear fluid, which is the saturated solution of the chloride of lead. A pound of nitrate will make several barrels of the liquid. The nitrate of lead costs from eighteen to twenty five cents a pound at retail.—*Monthly Bulletin*, June, 1891.

#### The Combination of Iodine and Glycerin.

If tincture of iodine is mixed with glycerin the latter will keep the skin moist to facilitate the absorption of the iodine. This is recommended by Dr. Hammond and may lead to a new Galenic preparation. Experiments are now in order to see how such a preparation will keep.—*Pharmaceutical Record*, June 18.

Angelica oil has been demonstrated to derive its peculiar odor from the presence of phellandrene.

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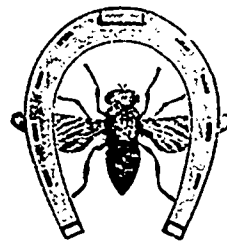
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HAMILTON, ONT.

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## Practical Hints on Dispensing for Students.

BY C. J. S. THOMPSON.

(From the British and Colonial Journal.)

MIXTURES—CONTINUED.

The tincture of perchloride of iron is frequently prescribed in combination with quinine, and which forms an admirable solvent when it is desired to exhibit these remedies together. When ordered in a mixture with solution of acetate of ammonia, care should be taken to test the latter before mixing, in order to make sure it is perfectly neutral, as if otherwise the result will be thick and turbid in appearance, instead of forming a clear dark-red mixture. The incompatibility of tincture of iron and mucilage of acacia is well known, yet the two are not infrequently met with in prescriptions. If the tincture and mucilage are mixed together directly an unmanageable jelly is produced, which it is impossible to form into a presentable mixture, but this result is obviated if the tincture is first well diluted with water, the mucilage being added to the mixture last, and by this precaution the difficulty is overcome. A favorite combination with some medical men is that of the solutions of dialyzed iron and arsenic, made up with glycerine or water. In preparing mixtures of this description, care must be taken not to add the solution of arsenic until the iron has been well diluted, leaving it until the last, or otherwise a light precipitate will be thrown down. The scale preparations of iron are easily soluble in water in agitation, with the exceptions of the potassio tartrate, and pyrophosphate, both of which it is necessary to rub down in a mortar, and hot water will be found of value to aid their solubility. The inconvenient froth caused on shaking up the citrate of iron and quinine with water, will rapidly subside on a few drops of rectified spirit being allowed to run down the side of the bottle.

A form of mixture sometimes met with, and which often gives a most unsatisfactory result to the dispenser is:—

℞ Ferri et ammon cit . . . . . 1 dr.  
Acid nit. mur. dil . . . . . 1 dr.  
Spts. ether chlor. . . . . 2 dr.  
Infus. quass. . . . . ad. 6 oz.  
Misc.

The best method is to dissolve the citrate in about four ounces of the infusion, and dilute the acid before mixing them together, dispensing the mixture with directions to shake the bottle. Care must be taken when a mixture is to be repeated that it should not be prepared again in the same bottle without it first being thoroughly cleansed and washed. The neglect of this precaution is often the cause of mixtures, especially those composed of vegetable infusions, becoming thick and turning sour in a very short time. In cases where the tinctures of Indian hemp, guaiacum, and other resinous preparations are ordered in any quantity to be mixed with water, it is custom-

ary to triturate the tincture first with a small quantity of mucilage of tragacanth or acacia, as otherwise, on standing, the resin will be thrown out of solution and adhere to the sides of the bottle. If a small quantity only of resinous tincture is prescribed, the addition of the mucilage is unnecessary. When such heavy and insoluble salts as the subnitrate of bismuth, oxalate of cerium, or heavy carbonate of magnesium, etc., are ingredients in a mixture, the addition of mucilage is necessary to aid their suspension. As a rule, the prescriber looks after this, and will order either the mucilaginous medium or an equivalent quantity of powdered gum, as in the following instance:—

℞ Bismuth. trisnit. . . . . 1 dr  
Sode bicarb. . . . . 1½ drs.  
Pulv. tragacanth . . . . . ½ drs.  
Tr. card. co. . . . . 4 drs.  
Syr. zingib. . . . . 1 oz.  
Aque. . . . . 8 oz.  
Misc.

In this case advantage should be taken of the alcohol present in the form of tincture of cardamoms, to mix it first with the powdered gum tragacanth direct, thoroughly incorporate, and then add the water gradually with vigorous agitation until a mucilage is formed, in the same manner as the mucil. tragacanth. of the B. P. is prepared. Should no alcoholic preparation be included in the mixture, the best method of forming a satisfactory mucilage is to place the powdered gum in a dry mortar, then add at once about two ounces of water, at the same time triturating the whole very quickly, continuing it until the mucilage is formed, and it may be thinned down. Gum tragacanth is employed in preference to gum acacia to suspend bismuth, as, when the latter gum is used a hard mass is formed, which often cakes at the bottom of the bottle. The sulphate of quinine is a favorite drug with medical men, and one very frequently met with in prescriptions. Its solubility in water is only 1 in 1,000, and 1 in 200 of rectified spirit; but it is readily soluble in acids, the usual proportions being about one grain to the minim of the dilute acids of the pharmacopœia. It is incompatible with all alkalies and their carbonates, iodides, and infusions containing tannin, which throw down a precipitate of tannate of quinine, which sulphuric acid instead of dissolving aids in precipitating. Like other alkaloids, it is precipitated by iodide of potassium and tannic acid. When ordered without any solvent, it should be rubbed down in a mortar as fine as possible, gradually mixed with the liquid menstruum, and dispensed with a shake the bottle label. It is usually prescribed in combination with a dilute acid, and in dissolving the quinine should be shaken up with a small quantity of water first, and then the acid added, as otherwise it may form into a hard cakey mass that will cause trouble. The sulphate of quinine is readily soluble in tincture of perchloride of iron. When ordered with iodide of potassium in a mixture, unless great care is used, a most unsightly compound is formed.

℞ Quin. Sulph. . . . . 18 grs.  
Potass. iodid. . . . . 40 "  
Acid. hydrobromic dil. . . . . 1 dr.  
Syr. aurant. . . . . 6 drs.  
Aque. . . . . 6 ozs.  
Misc.

The best method of compounding a prescription of this kind is to dissolve the quinine sulphate in the acid, and dilute with three ounces of the water and the syrup, then dissolve the iodide of potassium in the remainder of the water, and finally mix the solutions gradually. The following mixture is one that is by no means uncommon:—

℞ Quinine sulph. . . . . 1 scruple.  
Acid sulph. dil. . . . . 40 m.  
Potass. acet. . . . . 2 drs.  
Syrup. limonis . . . . . 1 oz.  
Aq. . . . . 8 ozs.  
Misc.

In dispensing this combination it is impossible to prevent a heavy precipitate of acetate of quinine being thrown down, it should therefore be labelled with directions to shake the bottle. Another mixture in which a precipitate occurs is

℞ Quin. sulph. . . . . 12 grs.  
Acid sulph. dil. . . . . ½ dr.  
Syrup simpl. . . . . ½ oz.  
Infus. rose. . . . . 6 ozs.  
Misc.

In this case, however, it may be prepared, a turbid and unpleasant-looking mixture is the result, owing to the tannate of quinine thrown down. An unsatisfactory combination is that of sulphate of quinine, aromatic spirits of ammonia and water. The quinine may be dissolved in the spirit, but in the addition of the water a flocculent precipitate takes place. When the tincture of quinine is prescribed with alkaline carbonates, it should always be diluted as much as possible before mixing. The following mixture may also be taken as an instance where the dilution of the ingredients is most desirable:—

℞ Ferri. et quin. cit . . . . . 1½ drs.  
Potass. citrat. . . . . 1½ drs.  
Tr. nuc. vomic. . . . . 40 m.  
Syr. simpl. . . . . 1 oz.  
Aque. . . . . 10 oz.  
Misc.

If care is not taken a flocculent precipitate is inevitable. The citrate of iron and quinine should be dissolved in about half the quantity of water, the syrup and tincture being then added. When solution is complete, the citrate of potash having been dissolved in the remainder of the water may be added, and the mixture will remain bright for some time. Mixtures containing the preparations of cinchona bark, in combination with carbonate of ammonia, should be dispensed with a shake the bottle label. Butyl-chlorol hydrate is soluble only about 1 in 50 in cold water, and when dispensed it is well to rub it down with a little hot water, which adds to the appearance of the mixture. It is more soluble in alcohol, and when ordered in combination with tinctures advantage should be taken of their presence to aid solubility.

℞ Croton chloral hydrat. . . . . ½ dr.  
Tr. gelsenin. . . . . 1½ drs.  
Spts. chlorof. . . . . 1½ drs.  
Aq. . . . . 1½ oz.  
Misc.

In this case if the chloral is rubbed



LIFE,  
GROWTH  
—AND—  
BEAUTY  
FOR THE HAIR.

# LUBY'S PARISIAN HAIR RENEWER

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

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

—AND—  
IS NOT A DYE.

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

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

## DID YOU HEAR ABOUT —THIS?—



### Pennyroyal Wafers

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

### NOT A DRUGGIST

In Canada or United States ever was overstocked with our goods when buying of us, but several got in with counterfeiters. 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,

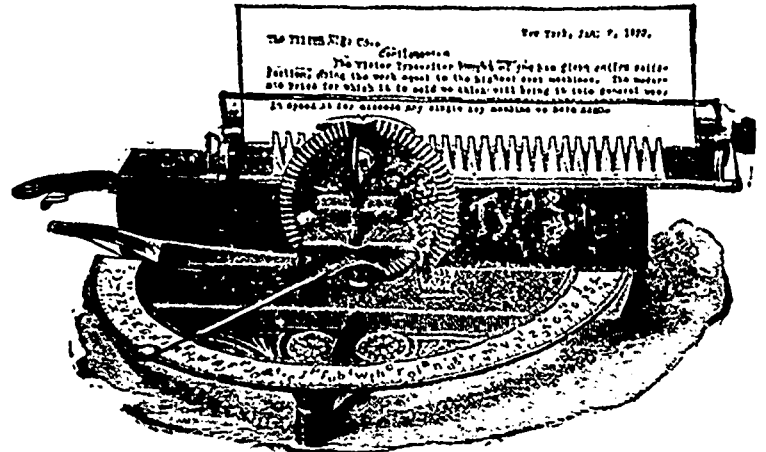
**Eureka Chemical Co.,**  
10 & 12 Michigan Ave.,  
DETROIT, MICH.



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 out 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.

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**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.



down with the tincture and spirit before adding the water complete solution is effected.

The habit of using concentrated tinctures, infusions, &c., is one that should be discontinued and avoided by dispensers, except in cases of emergency, such as an urgent call up in the night. Infusions, and decoctions especially, should always be freshly prepared, as in many instances the therapeutic action of the drug may be undoubtedly impaired by being kept and preserved in concentrated form. The color and flavor also are in some cases quite different when the concentrated preparation has been used. In making his infusion fresh, the dispenser has also the satisfaction of knowing he has followed out the exact instructions of the prescriber.

*To be continued.*

### Reference Table for Microscopical Work.

#### Cements and Varnishes.

Compiled by PROF. A. H. AUBERT.

**Asphalt Varnish.**—Asphalt, 150 grms.; linseed oil, 225 grms.; turpentine, 1,000 c.c.; or dissolve asphalt in benzol and to the solution add gold size. In the first method dissolve by the aid of heat; dilute when necessary with turpentine. Not very reliable as a cement.

**Bell's Cement.**—Probably a solution of shellac, but the exact composition is not known. This in the opinion of many is excellent cement.

**Gold Size.**—Linseed oil, 25 ozs.; red lead, 1 oz.; powdered white lead and yellow ochre, of each a sufficient quantity. Boil the oil and red lead together carefully for three hours; pour off the clear liquid, and boil with a mixture of equal parts of the white lead and yellow ochre added in small successive portions. Let it stand and pour off the clear liquid for use.

**Gram-Rutson's Cement.**—Hard Canada balsam, 50 grms.; shellac, 50 grms.; absolute alcohol, 50 grammes; anhydrous ether, 100 grammes. The ingredients are mixed, and when the gums are dissolved, filter if necessary, and evaporate, away from the flame, over a water bath until of syrupy thickness.

**Gutta-Percha Cement.**—Harting.—Gutta-percha cut in pieces, 1 part; turpentine, 15 parts; shellac, 1 part. Heat the gutta-percha and turpentine together, filter, add the shellac pulverized, and heat until a drop hardens on a cold glass plate. Used to attach cells; the slide must be warm when using the cement.

**Brown Cement.**—Pure gum rubber, 20 grains; carbon disulphide, a sufficient quantity; shellac, 2 ozs.; alcohol, 8 ozs. Dissolve the rubber in the smallest possible amount of the carbon disulphide; add this slowly to alcohol, avoiding clots; add powdered shellac and place the bottle in boiling water until the shellac is dissolved

and no more smell of carbon disulphide is given off.

**Guaiacum Varnish.**—Gum guaiacum, 2 ozs.; shellac, 2 ozs.; alcohol, 10 ozs. The powdered gum guaiacum is dissolved in the alcohol and the powdered shellac added; keep the bottle in hot water until all is dissolved.

**Shellac Varnish.**—1, shellac, 60 grms.; 2, alcohol, 60 grms.; 3, castor oil, 25 grms.; 4, alcoholic solution of anilin dye, a few drops. 1 and 2 are dissolved and heated until quite thick, then a little of 4 is added, and for every 60 grammes of the mixture add 25 grms. of castor oil, and heat for a time.

**Electrical Cement.**—5 parts of resin; 2 parts of hard balsam, 1 part of yellow beeswax; 1 part of red ochre. The components are melted together. This is not usually employed for mounting purposes but may be used in cementing glass and metal parts of instruments.

**Zinc White Cement, German Formula.**—1, mastic; 2, dammar; 3, sandarac; 4, venetian turpentine; 5, turpentine; 6, benzol; 7, zinc white. 1, 2 and 3 powdered are mixed in a well-corked bottle with 4, 5 and 6; shake well occasionally; after several days' filter, and triturate in a mortar with zinc white in quantity sufficient. Dilute if necessary with benzol.

**Zinc White, English Formula.**—1, gum dammar; 2, gum mastic; 3, benzol. Dissolve powdered 1, 2 and 3 in a well-corked bottle; when dissolved filter, and mix carefully in a mortar with zinc white.

**Marine Glue.**—India rubber shreds, 2 ozs.; shellac, 2 ozs. Dissolve the rubber in mineral naphtha, add the powdered shellac, heat until liquefied, and mix well together. This gives solid marine glue, and requires heat in its application. Great care should be observed in having all fire and flame removed while there still remains naphtha in the mixture.

**Lovell's Cement.**—Powdered white lead, 2 parts, powdered red lead, 2 parts, powdered litharge, 3 parts; gold size. The white lead and red lead and the litharge must be very finely powdered; for use, this powder is mixed with gold size to the consistency of cream, and the cells immediately fastened to the slide. They are secure in two weeks. This stands considerable heat, and is excellent for fluids containing some alcohol. Make a little only of the mixture with gold size at a time, as it hardens quite rapidly and becomes useless.

**King's Cement**—and Lacquers.—Satisfactory and highly recommended by some.

**Brown's Rubber Cement.**—Very good for finishing slides.

**Miller's Caoutchouc Cement.**—Sold in England by opticians. It is a most excellent and quickly drying cement.

**Hollis's Glue.**—Somewhat similar to Bell's cement.

Nearly if not all of the foregoing can be most advantageously bought of the opticians and dealers in microscopical materials.—*The Microscope.*

### Purification of Chloroform by Cold.

The artificial production of cold is about to be practically applied by M. Pietet, under a patent, in the purification by congelation of various liquids, and, amongst others, chloroform. It is stated that when the temperature of the purest brands of commercial chloroform is lowered to 70° C., partial crystallization takes place. If the crystals be removed and the refrigeration increased, at a temperature below 100° C., the chloroform itself crystallizes out, and can be removed from a residuary impure fraction. The chloroform so purified is described as being at a temperature of 15° C. a clear liquid of specific gravity 1.51, which can be preserved unaltered for an indefinite time, in daylight, in white bottles, and without any addition of alcohol. Upon shaking it with concentrated sulphuric acid no coloration of the latter occurs even after a long time. When shaken with chromic acid mixture no reduction takes place, the mixture remaining yellow.—*Pharmaceutical Journal and Transactions.*

**WINDOW-PANE BAROMETER.**—A pretty use for cobalt and nickel salts, which, as is well known, are affected by changes in the amount of moisture in the air, and which change they indicate by exhibiting different colors, is suggested by Rueckert in the *Rep. Annul. Chim.* if window-panes, or wall paper, or the like, are painted with the following solutions: 1. Chloride cobalt, 1; gelatin, 10; and water, 100. 2. Chloride copper, 1; gelatin, 10; and water 100. 3. Chloride cobalt, 1; gelatin, 20; water, 200; nickel oxide, 0.75; chloride copper, 0.25; they will be colorless in damp weather. In clear weather, solution number one will give blue color, number two yellow and number three green. *New York Medical Times.*

**EUROPHEN** is one of the iodine compounds proposed as a substitute for iodoform, from which it differs in being comparatively free from odor, is not toxic; that it is so much lighter than iodoform that the same weight will cover far more surface; its action on pus by liberating its iodine in contact with it is satisfactory. Europhen is not soluble in water or glycerin, but is soluble in alcohol, ether, chloroform, collodion, traumaticin and fixed oils. It is said to be formed from one of the phenol series (Isobutylcresol) and hypiodous acid (HIO).

**PILLS MADE FROM OLEORESINS,** creosote, balsams, etc., with calcined magnesia for an excipient, are failures therapeutically, as they, very soon after making, become as hard as bits of granite, and pass through the stomach and bowels unchanged. They are so hard that if kept for several hours in hot water, 176° F., they do not disintegrate.—*Indiana Pharmacist.*

Some Commercial Anethols are claimed to frequently be nothing more than fractionated anise oil.



**DO THE FLIES BOTHER YOU ? HOW DO YOU CATCH THEM ?**

Only the Cleanest Fly Destroyer can give Perfect Satisfaction.

**TRY TANGLEFOOT.**

When at your Jobbers Compare TANGLEFOOT with all the Other Brands of Sticky Fly Paper Before Purchasing.



**Keep Posted on All Changes.**

A Change to Benefit the Retail Dealer.

WE ARE ADDING ONE FIVE-CENT TANGLEFOOT HOLDER to every box of Tanglefoot this season, wholesale price of the Holders is three cents each.

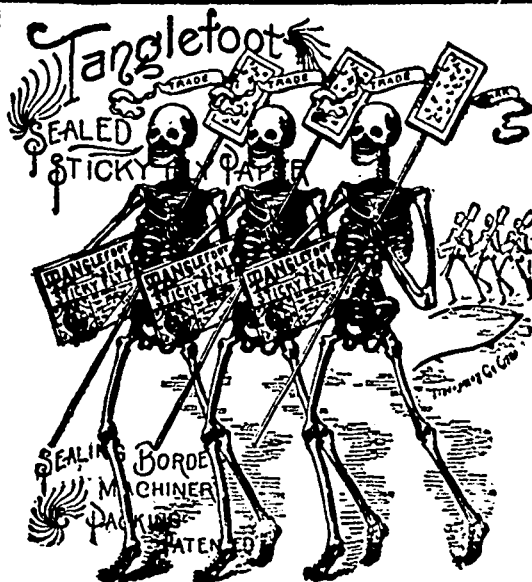
**PRICE:** { ONE BOX (25 Double Sheets and one 5c. Tanglefoot Holders, 26 FIVE-CENT ARTICLES) - 65 cts.  
 ONE CASE (ten Boxes), - - - - - \$6.00

Each case contains ten Holders (one in each box) the wholesale price of which is 25c. Deducting the value of the Holders, 28c. from the price of the case, leaves a balance of \$4.22, which is all you pay for the fly paper.

Our HOLDER is the First and Only Practical Device for Holding Sticky Fly Paper ever put on the Market.

**HAVE YOU SEEN ONE ?**

TRY a box of Tanglefoot and increase your fly paper sales.  
 TANGLEFOOT is as convenient to handle as a newspaper.  
 TANGLEFOOT is clean to use.  
 TANGLEFOOT is effective.  
 TANGLEFOOT opens easily.  
 TANGLEFOOT is the best in appearance.  
 TANGLEFOOT is of the most convenient size.  
 TANGLEFOOT is made of the best material.  
 TANGLEFOOT has one 5c. Holder packed in every box.  
 TANGLEFOOT is neatly packed.  
 TANGLEFOOT is low in price.  
 TANGLEFOOT is a ready seller.  
 TANGLEFOOT yields a large profit.  
 TANGLEFOOT is well known and popular.  
 TANGLEFOOT gives good satisfaction every time.  
 TANGLEFOOT is made in double sheets; each double sheet consists of two single sheets, each single sheet 9x16 (this feature patented).

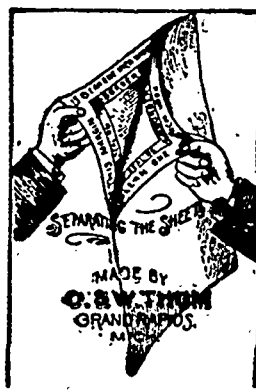


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Each Sheet of Tanglefoot is Separately Sealed with Wax, Leaving an Absolutely Clean Margin to Take Hold of When Opening the Sheet for Use.

Nothing in the Line of Sticky Fly Paper Approaches Tanglefoot.



This cut represents a double sheet while being opened for use, showing the seal of wax which excludes the air and prevents drying and sticking at the edges. The seal confines the sticky material and keeps the margin of the sheet absolutely clean.

All Things Considered,  
**TANGLEFOOT**  
 YIELDS MUCH THE  
**LARGEST PROFIT.**

**LARGE QUANTITIES**  
 -or-  
**STICKY FLY PAPER**  
 are used in every city, but no one buys much of it from a dealer who handles a paper inferior in any way.  
**TRY TANGLEFOOT**  
 - AND -  
**Increase Your Sales.**

**THE**  
**5c. TANGLEFOOT HOLDER**  
 increases the quantity of sticky fly paper used. Try one; it will give you satisfaction, and you will no doubt recommend it to your customers. A good thing is bound to sell readily.  
**PRICE:**  
 Per Box of 25 Holders,  
**70 CENTS.**

Sold by all Wholesale Druggists and the majority of Wholesale Grocers.

**Manufactured by O. & W. THUM, GRAND RAPIDS, MICHIGAN.**

## FORMULARY.

## PINE-NEEDLE ESSENCE.

Schrerer gives, in the *Rundschau*, the following formula for *Fichtennadeln Essenz*, or pine-needle essence, for perfuming and purifying the air of sick rooms, etc.:

Oil of pinus sylvestris	70 parts
Oil of juniper berries	8 "
Oil of rosemary	5 "
Oil of lavender	2 "
Oil of lemon	2 "
Oil of bergamot	1 part
Alcohol, 90°	1,500 parts

Mix, and macerate in the fluid 200 parts of young pine sprouts, and then distill.

## IRON TONIC BITTERS.

Gentian	2 ounces.
Bitter orange	1 "
Calamus	1 "
Tincture of citro-chloride of iron	1 "
Rectified spirit	4 "
Water	8 "
Dextrin syrup	4 "

Exhaust the vegetable drugs with the spirit and water previously mixed, adding sufficient of a menstrum of the same alcoholic strength until 12 fluid ounces are obtained. To this tincture add the iron, and lastly mix with the dextrin syrup.—*Ill. Phar. Asso.*

## ARTIFICIAL MARIENBAD SALT.

Sodic sulphate	3,731 parts
Sodic carbonate	546 "
Sodic chlorate	67 "
Potassic sulphate	5 "
Lithium carbonate	5 "

## NEW PERFUMES.

Dr. Herman Kractzer, of Leipzig, contributes the following formulas (some of the quantities being given here in the U. S. equivalents) to "Neueste Erfindungen und Erfahrungen":

## 1—BOUQUET D'AMOUR:

Oil of lavender, finest	1,200 grains.
Oil of cloves, twice rectified	600 "
Oil of rose	15 "
Oil of Bergamot	600 "
Tinct. vanilla	6 fl. oz.
Tinct. ambergris	6 "
Alcohol (deodorized)	12½ pints.

## 2—CHYPRE (FOR THE HANDKERCHIEF):

Oil of rosemary, finest	1,080 grains.
Oil of orange, bigarade	2,160 "
Oil of Petitgrain	1,260 "
Oil of bergamot	2,340 "
Oil of limetta	2,250 "
Oil of neroli, petale	450 "
Alcohol (deodorized)	49½ pints.
Distilled water	24½ "

Digest the oils with the alcohol for four or five days, then add the distilled water.—*Am. Druggist.*

## BETRAND'S ANTI-NEURALGIC POMADE.

Veratrine	30 parts.
Hydrochlorate of morphine	20 "
Lard, benzoated	300 "

Dissolve the veratrine in the smallest quantity of absolute alcohol and rub the solution up with lard and morphine. Apply to the seat of pain and rub in with the hand.—*Nat. Druggist.*

## SYRUPUS ROBORANS.

This syrup is a proprietary article, made by a house in Louisville, Ky. A query regarding it came before an evening

meeting of the Philadelphia College of Pharmacy recently, when Mr. Macintyre gave the following formula for it:

Quinine bimuriatis	25 grains.
Strychnine sulphatis	½ grain.
Aque distillato	2 drams.
Syr. hypophosphatit e. ferro	6 ounces.

M.

## FERRO-IODIZED CODLIVER OIL.

Ch. Diete gives the following in the *Chemische Zeitung*:

Porphyzied iron	4 gm.
Iodine	8-20 gm.
Ether	70 gm.

Mix and agitate until all the iron is converted into iodide. Then heat in a water-bath 200 gm. of codliver oil; add the etheric solution of iodide of iron and continue the heat until the ether is driven off. Let cool, and filter. This preparation should be preserved in small containers only.

## TONIC HAIR-WASH.

Borax	1 drachm.
Salicylic acid	20 grains.
Tincture of cantharides	½ ounce.
Bay rum	2½ "
Rose-water	2½ "
Water	5 "

Dissolve the borax and the acid in the water by the aid of heat; after it is cool add the bay rum, cantharides and rose-water.

## LIQUOR ANTISEPTICUS.

## ANTICERTIC SOLUTION.—NEW YORK HOSPITAL.

Benzoic acid	60 grains.
Borate of sodium	60 "
Boric acid	120 "
Thymol	20 "
Oil of wintergreen	4 minims.
Oil of peppermint	4 "
Glycerin	2 fluid ounces.
Alcohol	4 "
Water, enough to make	16 " "

Dissolve the acids and the oils in the alcohol, then slowly add the water and glycerine; shake well after each addition of water, and after allowing to stand 12 hours filter without having again shaken. It may require two or more filterations to make a perfectly bright solution.

## Characteristics of Pure Creasote.

M. Catillon, in the *Journal de Pharmacie et de Chimie*, after stating that all the samples of creasote obtained by him in the open market under the name of pure creasote contained large percentages of the kindred products of guayacol and cresol, gives the following characteristics of pure creasote: It should be absolutely colorless, and should remain so for a long time even under exposure to direct sunlight in white glass vessels. Its odor should not recall that of bitumen in the slightest, and should easily disappear from the hands when the latter are washed in clear water. Its density at 60° should be 1.080, and under distillation nothing should pass over below 200° C., and it should distill without residue between 200° and 212° C. Mixed in equal parts with pure glycerin at 30° C., it should dissolve without turbidity, and the solu-

tion should be as limpid as either of the liquids of which it is composed, and should remain so upon the addition of either more glycerin or more creasote. It should dissolve freely in all proportions in alcohol, ether and oils. Its solubility in water should be about 1 in 100 parts. It should be neutral in reaction. It should dissolve completely in soda and potash lyes and give a limpid solution, even upon the addition of water. Mingled with equal parts of collodion, it should give a clear solution, and preserve its fluidity without a trace of coagulation.

Dissolved in 10 parts of alcohol, on the addition of a 10-per-cent. solution of chloride of iron, it should give a clear green solution, with no trace of blue. If 1 cm. of creasote be added to 10 cm. of 20-per-cent. solution of caustic potash in alcohol of 95°, a solid crystalline mass should result.

Pure creasote possesses an odor and taste far less strong and disagreeable than ordinary creasote, and may be administered in much higher doses. Forty centigrams dissolved in a spoonful of glycerin and diluted with a glass of *eau vineuse* (wine and water) may be taken.

## Quina Laroche—A Perfect Wine of Cinchona.

This celebrated French proprietary is said (*Bulletin de la Societe Royale de Bruxelles*) to be prepared as follows:—

Macerate 100 gm. quinquina succirubra coarsely powdered, for thirty minutes, in 100 cm. of boiling water. Strain off the liquid and set aside. Macerate for several hours the residual magma in 1,000 gm. Malaga wine, and again strain off the liquid and set aside. Finally, macerate the magma in 500 gm. alcohol of 50°; strain off, and wash the residuo with a little water to recover all the alcoholic tincture. Unite all the liquids, let stand for twenty-four hours, and filter.

To the filtrate add 800 gm. loaf sugar with the aid of a gentle heat, and again filter. The product is the *Vin de Quina Laroche*.

The *Vin de Quina Ferrugineux Laroche* (ferrated wine of cinchona, Laroche) is prepared by dissolving in 1,000 parts of the above wine 1 part of citro-ammoniacal pyrophosphate of iron.

TIMBOINE, A NEW AND INTENSELY POISONOUS ALKALOID.—Dr. Puff reports from Brazil (*Pharmaceutische Post*) that he has succeeded in isolating from the crushed roots of a leguminous plant called *timbo* by the aborigines of Brazil, a new and exceedingly toxic alkaloid, to which he has given the name timboine. The Indians have long used a decoction of the timbo roots for the purpose of killing fish by poisoning the waters, just as *cocculus indicus* is used in other countries. A small amount of the decoction is said to suffice for a very large volume of water.

Pilocarpine is recommended for deafness caused by chronic catarrh,

# LAWSON & JONES, Label & Printers

AND DEALERS IN

## DRUGGISTS' CONTAINERS,

LONDON, - - CANADA.

Folding Boxes,  
Cartons and Wrappers,  
Comb and Toothbrush Envelopes,  
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Write for Label Catalogue. *Mention this paper.*

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# DRUGGISTS, SELL DAVIS' FLY FELTS

THE MOST POPULAR,  
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3 Felts in Package - Sells for 5c. per Package.

3 BOX LOTS, \$7.00. PROFIT OVER 100 PER CENT.

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- MONTREAL—Lyman, Sons & Co., Brayley, Sons & Co.
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- HAMILTON—J. Whier & Co.
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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.

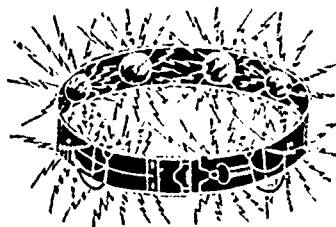
Sold by Druggists. Send chest-measure around the body. Address,

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 Book on Home Electro Medical Treatment.

## THE DORENWEND ELECTRIC BELT & ATTACHMENT CO.

C. H. DORENWEND, Electrician and Manager.

103 Yonge St., TORONTO, CAN.

## SELECTIONS.

THE CHOLAGOUE property of salicylate of sodium was made known by Rutherford, but has not received much attention. Professor Germain See now reports (*London Lancet*) that he has found it to be the most efficient of all cholagogues in promoting the expulsion of gall-stones.

**TEST FOR GUAIACOL.** The addition of concentrated sulphuric acid and a minute quantity of acetone to guaiacol or its compounds (benzozol, etc.) produces a beautiful cherry-red or purplish red coloration; the addition of two volumes of chloroform to the test and agitation makes the color more pronounced.—*Pharm. Ztg.*

**A NEW LABEL PASTE.**—The *Moniteur Industriel* gives the following:—Macerate in a small quantity of water 120 gm. of gum arabic, and in another vessel, with a similar quantity of water, 30 gm. of tragacanth. When the latter is thoroughly swollen rub it up until it makes a homogeneous magma, and to this add the gum arabic. Force the mass through a linen strainer, and to the mixture add 120 cem. glycerine and 2.50 cem. oil of thyme, and bring the volume up to 1 liter by adding distilled water and thoroughly incorporating the whole. This preparation should be preserved in well-stoppered bottles.

**IODIDES OF ANTIPYRIN.** M. Duroy reports (*Bulletin de l'Academie de Medicine*) that he has obtained several iodides of antipyrin, all of which are capable of being used in therapeutics. The method of preparing an iodide of antipyrin is very simple. One equivalent of iodine dissolved in alcohol of 90°, and brought into contact with an equivalent of antipyrin dissolved in five times its weight of distilled water, yields a brick-yellow precipitate which is antipyrin iodide. It is soluble in two and-a-half times its weight of water at 25° C.

**LINIMENTA EXSICCANTIA** or drying liniments are intended as an improvement on the gelatin treatment in dermal practice. The base is made by either triturating in a mortar or heating in a suitable vessel 5 parts tragacanth, 2 parts glycerine and 100 parts water; made by the aid of heat the preparation keeps without the addition of antiseptics; the advantages of this base are that it can be applied in very thin layers, and can be removed by simply washing with water. To medicate the base, soluble substances are dissolved in the water used to make the base; insoluble substances, oils, iodoform, zinc oxide, etc., are triturated in the mortar with the previously-made base.—*Pharm. Post Id. of Pharmacy.*

## Quinino Albuminate.

A preparation described as being a homogeneous compound of egg albumen with quinine, possessing the remarkable property of not being decomposed by the strongest alkalies, has been recently introduced by M. Tarozzi (*Union. Pharm.*,

May, p. 196). It is claimed that the preparation is easily absorbable by the mucus membrane of the stomach and passes into the circulation, where it exercises its therapeutic properties without undergoing decomposition, under conditions in which the ordinary salts of quinine are broken up by the alkaline liquids of the system. This "albuminate of quinine" is stated to be prepared by double decomposition between sulphate of quinine and albuminate of soda, but the manner of operating is not indicated. The product is a white amorphous bitter substance, said to contain fifty-six per cent. of quinine; it is alkaline in reaction, dissolves more readily in hot water or alcohol than in cold, and more freely still in water acidulated with lactic or hydrochloric acid. It may be distinguished from other salts of quinine by treating it with water, acidulated with sulphuric acid, which forms with the quinine soluble acid sulphate, the albumen being precipitate after standing.—*Pharmaceutical Journal and Transactions.*

## Detection of Oil of Camphor When Used as an Adulterant.\*

BY A. B. STEVENS, ANN ARBOR, MICH.

IN 1888 the writer presented to this association a test for the detection of oil of camphor when it is used in the adulteration of oil of peppermint. The test, with a slight modification, is as follows:—

Place a drachm of nitric acid (sp. gr. 1.42) in a test tube, add one drop of the suspected oil, and agitate gently. The color of the mixture may vary from light yellow to red. If the oil is pure the red color will disappear in from twenty minutes to two hours. If oil of camphor is present the red color will remain for twenty-four hours, and even longer, if not exposed to too strong a light. This test is reasonably delicate, as less than 5 per cent. of oil of camphor may be detected by it.

Since the paper of 1888, numerous tests have been made to ascertain to what extent it can be relied upon for the detection of oil of camphor in other volatile oils. The greatest difficulty encountered was in obtaining perfectly pure oil. In some cases it was necessarily obtained by distillation. For a year or two all of the oil of cajeput met with gave results similar to those of oil of camphor. Indeed, one manufacturer stated that pure oil of cajeput would always give similar results. However, since that time I have found two samples of oil of cajeput, neither of which gave the test for oil of camphor; one of these samples was from an original package from J. E. Davis & Co., and the other was presented by the agricultural department. It is, therefore, a reasonable conclusion that the test may be relied upon for the detection of oil of camphor when present in oil of cajeput, and, fur-

\* Read at the meeting of the A. P. A. at New Orleans.

ther, that nearly all of the oil of cajeput of the market is adulterated with oil of camphor.

By numerous experiments it has been ascertained that this test may be relied upon for the detection of oil of camphor in the following volatile oils, viz.:—Orange peel, orange flower, erigeron, lavender flowers, rose, juniper wood and berries, cedar wood, hemlock, lemon, lemon grass, thyme, cajeput, citronella eucalyptus, anise, rosemary, caraway, bergamot, cloves, coriander, cassia, and cinnamon. Pimento gives a red color, almost identical with oil of camphor, but the reaction is exceedingly violent, and gives off dense brown fumes. Oil of nutmeg gives similar results. Strong sunlight will completely bleach out the red color produced by oil of nutmegs in less than an hour, and that produced by pimento in four hours, while that produced by oil of camphor requires twelve hours.

The only oil I have thus far found that gives identical results with oil of camphor is oil of saffron, and these two oils are somewhat similar, as both contain saffrol.

## Facts.

The poet Tennyson can take a worthless sheet of paper, and by writing a poem on it make it worth sixty-five thousand dollars.—That's genius.

Vanderbilt can write a few words on a sheet of paper, and make it worth five million dollars.—That's capital.

The United States can take an ounce and a quarter of gold and stamp upon it an "Eagle bird" and make it worth twenty dollars.—That's money.

The mechanic can take material worth five dollars and make it into a watch worth one hundred dollars.—That's skill.

The merchant can take an article worth seventy-five cents and sell it for a dollar.—That's business.

A lady can purchase a very comfortable bonnet for three dollars and seventy-five cents; but she prefers one that costs twenty-seven dollars.—That's foolishness.

The ditch digger works ten hours a day and shovels three or four tons of earth for two dollars.—That's labor.

The editor of this paper could write a check for eighty million dollars, but it would not be worth a nickel.—That's rough.—*The Bookkeeper.*

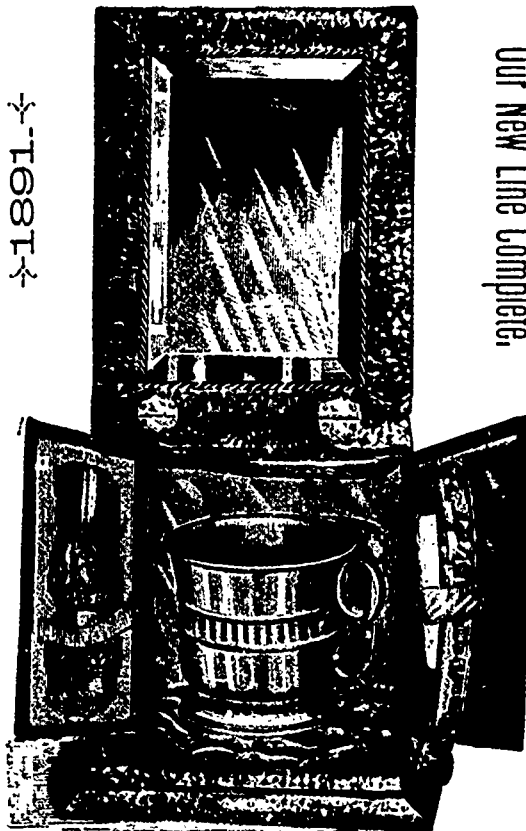
**MEDICAL PROGRESS?**—This was sent by a medical man in Indiana to one of the medical journals in that State:

Dear dock I hav a pashunt whos phisicol sines shoes that the windpipe has ulcerated of, and his lung have drop intoo his stumick. he is unabel to swoller and I fear his stumick tube is gon. I hav giv him every thing without efeckt. his father is wealthy, Onerable and influenshial. He is an active member off the M. E. Chirsch and god nose I dont want too loose hym. what shal I due. ans. buy retaine male yours in neede.

—*Pharm. Record*

**Reinhardt - Manufacturing - Co.**  
MONTREAL

Perfume, Nail, Brush, Comb and Mirror Sets,  
AND DRUGGISTS' SUNDRIES.



↑-L-O-S-T-↓

Our New Line Complete.

Established 1831.

Incorporated 1891.

PUREST AND SWEETEST

**Argoline + Petrolatum**  
**Petroleum Jelly.**

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

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

A full size sample by mail on application.

SPECIAL QUOTATIONS FOR QUANTITIES.

Argoline Pomade.

Argoline Camphor Ice.

Argoline Cold Cream.

Argoline Camphorated.

Argoline Carbolated.

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

**ARGOLINE MANUFACTURING COMPANY,**  
HOMESTEAD, PA.

**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.

**SMOKE**

**MINERVA**

—: AND :—

**RICHARD 1st**

**CIGARS.**

**FINEST 5c. GOODS**

IN THE MARKET.

**J. M. FORTIER,**

MANUFACTURER,

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.

The American Drug Supply Co. make an announcement to the trade on page 9.

Read the announcement of the Detroit College of Pharmacy on page 9 of this issue. Intending students should make early application.

Burnham, Taite & Son, Philadelphia, whose advt. appears on page 16, call attention to their make of seamless tin boxes, etc., plain or lacquered. Their goods may be obtained from any of the wholesale drug trade.

The Seely Mfg. Co., of Windsor and Detroit, are showing a splendid range of samples in perfumery for the holiday trade. In cut glass bottles and Austrian ware their goods cannot fail to suit the most fastidious tastes and the well known superior quality of their perfumes must ensure rapid sales. We would advise an early inspection of their samples.

Parke, Davis & Co., have issued a special list of preparations manufactured at their laboratory at Walkerville, Ont. This catalogue will be found most useful and convenient to the retail druggist, and we doubt not will add very materially to the development of this firm's business in Canada. Any goods which are not procurable from the wholesale houses may be had direct from the laboratory. Correspondence should always be addressed to the Detroit office.

"After using continuously in my practice eight ounces of Antikamnia, pure and simple, in all the diseases for which you recommend it, I assure you, unsolicited, that it has fulfilled every promise you made.

"After nearly 25 years of hospital and private practice, I would rather abandon morphine than antikamnia, which I also consider an unequalled febrifuge. Indeed its antipyretic qualities are wonderful in reducing the temperature.

"I have never had a patient object to taking the dry powder on the tongue, nor had one complain of feeling the slightest malaise after its administration. I know I am making sweeping assertions, but you should know the truth so as to be encouraged in your work. Truly,

CALEB LYON, M. D.,  
Rossville, Staten Island."

### Cod Liver Oil.

From the last circular report issued by Joh. Rye Hohnboe, Tromsøe, Norway, we learn that—

"Nearly all the makers in Finmarken have restrained from medicinal cod liver oil this year owing to the good prospects for other fish oils and the quantity of steam cured medicinal cod liver oil produced in Finmarken only amounts

to the insignificant number of 772 Hectoliters." (equal to about 638 barrels.)

"The stocks of cod liver oil at the beginning of this season were unusually small, and 21,000 Hectoliters will hardly be enough for the trade's requirements until next season."

### The New Textile Substitutes.

THE utilization of pine tree leaves for the manufacture of bagging, matting, etc., has become an industry of recognized importance, and in North Carolina a company has for some time been in operation for thus producing matting and bagging, with a capacity of 2,000 yards, the material being in every respect equal to jute, as well as cheaper. The process appears to be a simple one. The leaves of the long-leaf pine are gathered in a mass, and on being weighed are thrown into a large vat, where they are boiled in alkali at a low temperature for about twelve hours; then, after becoming thoroughly soaked in the same vats, they are taken by a continuous automatic process through the rubbing, wringing, carding, drying, recarding, drawing, roving, winding and weighing machines, in the latter of which the substance becomes an excellent article of bagging, and, after going through a calendaring apparatus is ready for use and the market. After leaving the wringer the process of manufacture is very nearly identical with that of cotton goods. As a material for upholstering purposes and for carpet lining it is found well adapted. It appears that for every foot of pine timber there is one pound of green leaves; nor is the tree at all injured by this treatment, though capable of being worked up successfully into other fabrics above named. The principal use of the leaves thus far has been for the manufacture of bagging.—*Boston Journal of Commerce.*

CANTHARIDES IN CANCER. -More than twenty years ago it was reported that the Russian peasants were in the habit of using some kind of beetle as a remedy for cancer. Since that time some observations have been made which would appear to point to the possibility of cantharides being of some use for this purpose. In 1860 Dr. Wilms excised the left breast for a tumour of the size of a small walnut, which was shown by the microscope to be a reticular carcinoma. It returned and was again excised a year after the first operation. A mixture of tincture of cantharides and camphorated wine in mucilage was now prescribed, and was continued for three months. The patient, who was a widow at the time, afterwards married again, and gave birth to two children. She is still alive, and there has been no recurrence. Again, in 1880, a somewhat extensive cancer of the breast was operated on in the Augusta hospital, after which the patient was treated with cantharides, and was known to have had no return of the tumor six years later; indeed, she is believed to be alive and well at the present time. Once more, in 1879, a stricture of the œsophagus,

evidently of a carcinomatous nature, developed somewhat rapidly in a female patient; she was treated with cantharides, and a decided improvement took place, so that she was able to swallow pieces of food if they were well masticated. She is still alive, but feels, however, some inconvenience from the stricture, and at times is obliged to have recourse to the cantharides. The above interesting facts are published by Dr. Wolfert in the *Berlin Klin. Wochenschrift.*—*Dr. and Col. Druggist.*

THE BLACK TEETH OF SIAMESE AND MALAYS. The government of Burmah has published a report by Mr. Merrifield, in the course of which he corrects the common error that the black teeth of the Malays and Siamese are due to chewing betel mixed with lime. It appears that the black color of the teeth is due to a special process employed for the purpose, for no respectable Siamese would like to have white dogs' teeth, like Chinese, Indians, and Europeans. Coconut kernel is carefully charred, and then worked to a stiff paste with coconut oil. When carefully and regularly worked over the teeth, this produces the black varnish which is so much admired. Amongst some Malay tribes it is considered the proper thing not only to blacken the teeth, but to file them down to points like sharks' teeth. "A Siamese or Malay man or woman does not strike a European as beautiful when yawning."

A PROFITABLE ENTERPRISE.—It is related that the Farbenfabriken, late Friedrich Bayer & Co., of Elberfeld, Germany, with a capital of 9,000,000 Marks, obtained in 1890 a net profit of 3,455,465 Marks, and that it is now the intention—and a subscription has been opened—to increase their capital by 3,000,000 Marks. This house, and others doing a similar business, are primarily manufacturers of anilin and allied dyes, but a most important addition has been the production of various medicinal articles which are grouped simply under the name of new remedies. These synthetical products have multiplied in number very greatly during two or three years past, and occupy now an important position in the physician's armamentarium.—*Pharm. Era.*

TO DISCOLORIZE IODOFORM SOLUTIONS, in which free iodine has appeared, an improvement on the usual plan of shaking with caustic soda has been proposed by a French pharmacist. Fine copper turnings are sewn up in a small linen bag, and this is introduced into the solution. Any free iodine which forms is at once decomposed, and the insoluble cuprous iodide forms remains in the little bag. This method has the advantage of adding nothing to the solutions and not tending to decompose them itself, as the soda does.—*Monthly Magazine.*

Garlic Oil is finding favor as an ingredient for sauces, pickles, etc.



**IMPERIAL GRANUM**

THE SALVATOR FOR INVALIDS AND THE AGED

**MEDICINAL FOOD**

REGISTERED JUNE 5, 1877.

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

THE GREAT PHARMACEUTICAL RECORD

THE LIFE OF THE AFFECTION

The advertisement features a central illustration of a baby being held by two adults, surrounded by three circular portraits of children on the left. Below these are several medals and a large illustration of a baby's head. The text at the top reads 'IMPERIAL GRANUM' and 'THE SALVATOR FOR INVALIDS AND THE AGED'. A large banner on the right says 'MEDICINAL FOOD'. At the bottom, it says 'SOLD BY DRUGGISTS JOHN CARLE & SONS NEW YORK'. There are also smaller text elements like 'REGISTERED JUNE 5, 1877.' and 'THE GREAT PHARMACEUTICAL RECORD'.



**Drug Review.**

Business has been quiet during the last month, owing to the farmers being busy with the harvest. There have been few changes in values of any importance.

Quinine unchanged.

Cubeb berries easier.

Citric acid advanced.

Sal Rochelle easier.

Caraway seeds, higher prices looked for as this year's sowing on account of low prices will be smaller, and the season so far has been unfavorable.

Poke Berries much higher.

Florida Water, M. & L., is now on the rebate at \$1.75 per dozen.

Oil Peppermint advancing.

Paris Green, demand about over.

Ether sulph. higher.

Iodide and Bromide Potash unchanged.

Glycerine, firm and advancing.

**English Market Report.**

London, July 27th, 1891.

THE market during the last month has been quiet in both chemicals and drugs. Alkalies maintain their former price, but there are rumors that the Chemical Union have had to shut down two or three of their works to prevent over-production. Citric and tartaric acids are slightly cheaper in spite of the fact that this is the height of the season. Ipecacuanha has again risen, and it is doubtful if even now top prices have been reached. Some of the syndicate who are manipulating this drug are stated to have said that they will not be satisfied until it realizes \$2.05 per lb. Cinchona at the last auction was a trifle better, but quinine is unsaleable, buyers refusing to give more than 21c. per oz. Opium is lower and reliable statistics from Smyrna indicate that this will be an exceptional year from its large crop.

**CHEMICALS.**

Acid citric per lb	\$ 40
" oxalic	07
" tartaric	28
Borax	06
Chloride of Lime	02
Cream of Tartar	20
Copper sulphate	04
Mercury	52
Calomel	74
Corrosive sub	(6)
Potash chlorate	11
Soda caustic per cwt	2 58
" bicarb	1 72
" crystals	80

**DRUGS.**

Aloes Zanzibar per lb	18
Bals. Tolu	32
Camphor Eng. ref	40
Ergot Span	36
Ipecacuanha	2 08
Jalap	24
Kola nuts	31
Oil pepperm't H G	3 28
" Japan	1 02
Oil Aniseed	1 48
Oil Cassia	84
Opium	\$1.92 to 2 12
Sarsaparilla jam	30
Shellac	16

**Jas. A. Kennedy & Co.**

IMPORTERS

-AND-

**Wholesale Druggists,  
LONDON.**

WHOLESALE AGENTS FOR

**SOUTHERN  
Asthma Cure**

(LIQUID)

For **ASTHMA,**  
**Rose Cold, Hay Fever, &c**

We are also Sole Agents for Southern  
Asthma Cure, dry, as formerly put up  
by Messrs. Fulford & Co.

**Do You Want  
-TO-  
Make Money?**

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

IS SOLD ON A POSITIVE GUARANTEE to cure any form of nervous disease or any disorder of the generative organs of either sex, whether arising from the excessive use of Stimulants, AFTER tobacco or Opium, or through youthful indiscretion, over indulgence, &c., such as Loss of Brain Power, Wakefulness, Bearing down Pains in the back, Seminal Weakness, Hysteria, Nervous Prostration, Nocturnal Emissions, Leucorrhoea, Dizziness, Weak Memory, Loss of Power and Impotency, which if neglected often leads 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.

**SEELY**

THE

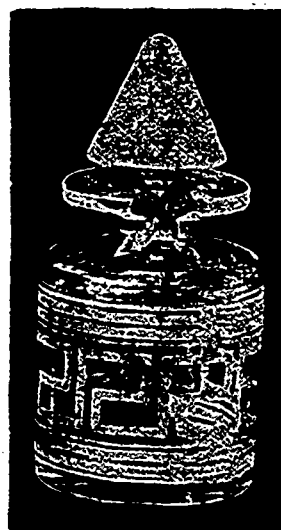
**American Perfumer**

(ESTABLISHED 1862.)

Branch:—WINDSOR, ONT.

Seely's **PERFUMES** have a world-wide reputation, and are known as the **STANDARD** goods of America.

**SPECIAL ODORS:**



No. H (1 IN BOX)  
Cut and Engraved.

- Victoria Regia.
- Her Majesty Rose.
- Purple Lilac.
- Mary Anderson.
- Easter Lilly.
- White Rose.
- Knight's Templar.
- Golden Rod.
- Highland Bells.
- Marie Stuart.

**PRICE LIST:**

Half Pound Bottles.	\$2.00 each.
Dime Size.	.85 per doz.
½ oz., No. 993.	2.00 "
1 oz., No. A.	4.00 "
1½ oz., No. B.	6.00 "
2 oz., No. C.	8.00 "
10½ oz., No. H, (see cut)	4.00 each.

Our line of Imported Cut and Decorated Bottles for the HOLIDAY TRADE had been received, and we are now ready to fill orders for Perfumes, Colognes or Toilet Waters, put up in various sized bottles, which shall be handsomely boxed. Our line will be presented early, and we respectfully ask the Druggists to see it before purchasing elsewhere, as it will be to their interest to do so.

Mail orders receive careful and prompt attention.

Correspondence solicited.

**Seely Manufacturing Co.,**  
DETROIT, MICH. WINDSOR, ONT.

WILSON'S

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 discourage 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 AUGUST 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.....	\$4 03	\$4 20	CASTOR, 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
ALON, 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	HERB, 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	Burdock, lb.....	16	18
Copaiba, lb.....	75	1 00	COLLOIDON, lb.....	75	80	Boneset, ozs, lb.....	15	17
Peru, lb.....	2 50	2 75	Cathartidal, lb.....	2 50	2 75	Catnip, ozs, lb.....	17	20
Tolu, can or less, lb.....	75	80	CONFECTOR, Senna, lb.....	25	30	Chiretta, lb.....	25	30
BARK, Barberrry, lb.....	22	25	Crocote, Wood, lb.....	2 00	2 50	Coltsfoot, lb.....	20	38
Bayberry, lb.....	15	18	CUTTLEFISH BONE, lb.....	35	40	Feverfew, ozs, lb.....	53	55
Buckthorn, lb.....	15	17	DEXTRISE, lb.....	10	12	Grindelia robusta, lb.....	45	50
Canela, lb.....	15	17	DOVE'S POWDER, lb.....	1 50	1 60	Hearhound, ozs, lb.....	17	20
Cascara Sagrada.....	30	35	ERGOT, 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	ERGOTIN, Keith's, oz.....	2 00	2 10	Liverwort, German, lb.....	38	40
Cinchona, red, lb.....	60	65	EXTRACT, Logwood, bulk, lb....	13	14	Lobelia, ozs, lb.....	15	20
Powdered, lb.....	65	70	Pounds, lb.....	14	17	Motherwort, ozs, lb.....	20	22
Yellow, lb.....	35	40	FLOWERS, Arnica, lb.....	15	20	Mullein, German, lb.....	17	20
Pale, lb.....	40	45	Caleculida, lb.....	55	60	Pennyroyal, ozs, lb.....	17	20
Elin, selected, lb.....	16	18	Chamomile, Roman, lb.....	30	35	Peppermint, ozs, lb.....	21	25
Ground, lb.....	17	20	German, lb.....	30	35	Rue, ozs, lb.....	30	35
Powdered, lb.....	20	28	Elder, lb.....	20	22	Sage, Ozs, lb.....	18	20
Hemlock, crushed, lb.....	18	20	Lavender, lb.....	12	15	Spearmin, lb.....	21	25
Oak, white, crushed, lb.....	15	17	Rose, red, French, lb.....	1 60	2 00	Thyme, ozs, lb.....	18	20
Orange peel, bitter, lb.....	15	16	Rosemary, lb.....	25	30	Tansy, ozs, lb.....	15	18
Prickly ash, lb.....	35	40	Saffron, American, lb.....	35	40	Wormwood, oz.....	20	22
Sassafras, lb.....	15	16	Spanish, Vafa, 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	Hops, fresh, lb.....	30	35
BEANS, Calabar, lb.....	45	50	GLYCERINE, lb.....	18	20	INDIGO, Madras, lb.....	75	80
Tonka, lb.....	1 50	2 75	GUARANA.....	3 00	3 25	INSECT POWDER, lb.....	29	32
Vanilla, lb.....	6 00	9 00	Powdered, lb.....	3 25	3 50	ISINGLASS, Brazil, lb.....	2 00	2 10
BERBERIS, Cubeb, sifted, lb.....	2 00	2 25	GUM ALON, Cape, lb.....	18	20	Russian, true, lb.....	6 00	6 50
powdered, lb.....	2 20	2 40	Barbadoes, lb.....	30	50	LEAF, Aconite, lb.....	25	30
Juniper, lb.....	10	12	Socotraine, lb.....	65	70	Bay, lb.....	18	20
Ground, lb.....	12	14	Assafetida, lb.....	23	25	Belladonna, lb.....	25	30
Prickly ash, lb.....	40	45	Arabic, 1st, lb.....	1 60	1 10	Buchu, long, lb.....	40	45
BUSB, 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
CAMPHOR, lb.....	65	70	Benzoin, lb.....	50	1 00	Eucalyptus, lb.....	18	20
CANTHARIDES, Russian, lb.....	2 60	2 10	Catechu, Black, lb.....	9	20	Hyo-cyanua, lb.....	25	30
Powdered, lb.....	2 10	2 20	Camboge, powdered, lb.....	1 30	1 35	Matico, lb.....	70	75
CAUSTIC, lb.....	25	30	Guaiaic, lb.....	80	1 00	Senna, Alexandria, lb.....	25	30
Powdered, lb.....	30	35	Powdered, lb.....	90	1 20	Tinnevely, lb.....	15	25
CARBON, Bisulphide, lb.....	16	18	Kino, true, lb.....	45	45	Stramonium, lb.....	20	25
CARMINE, No. 40, ct.....	40	50	Myrrh, lb.....	45	48	Uva Ursi, lb.....	15	18
			Powdered, lb.....	55	60	LUCAS, Swedish, doz.....	1 00	1 10
			Opium, lb.....	3 75	3 90	LACONIA, Solazzi.....	45	50
			Powdered, lb.....	5 50	6 00	Pignatelli.....	35	40
			Seammony, 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	Unicory, lb.....	38	40	Subcarbonate, lb.....	2 75	3 00
" Purity, 200 sticks in box	1 50	1 50	Valerian, English, lb trueo...	20	25	Subnitrate, lb.....	2 40	2 00
" 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
LYCOPODIUM, lb.....	70	80	SACCHARIN, oz.....	1 90	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 00
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	CHINIDINE, oz.....	15	18
Powdered, lb.....	25	30	Celery.....	20	25	CHLORAL, Hydrate, lb.....	75	85
NUTMEGS, lb.....	1 00	1 10	Colecium.....	1 00	1 20	Croton, 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	CINCHONINE, Sulph., oz.....	15	20
OINTMENT, Merc., lb ½ and ¼	70	75	Fenugreek, powdered, lb.....	7	9	COCAINE, Mur., oz.....	10 00	10 50
Citrine, lb.....	45	50	Flax, cleaned, lb.....	3½	4	COPPER, Sulph. (Blue Vitrol) lb.	7	8
PARALDEHYDE, oz.....	15	18	Ground, lb.....	4	5	Iodide, oz.....	65	70
PEPPER, black, lb.....	22	25	Hemp, lb.....	6	6½	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.....	65	70	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	IODIFORM, lb.....	6 00	7 00
Gallanum, lb.....	80	85	Worm, lb.....	22	25	IODOL, oz.....	1 00	1 40
Gallanum Comp., lb.....	80	85	SEIDLITZ MINTURE, lb.....	25	30	Iron, by Hydrogen.....	1 00	1 10
Lead, lb.....	25	30	SOAP, Castile, Mottled, pure, lb..	10	12	Carbonate, Precip., lb.....	15	16
POPPY HEADS, per 100.....	85	90	White, Conti's, lb.....	15	16	Sacch., lb.....	35	40
ROSIN, Common, lb.....	2½	3	Powdered, lb.....	25	35	Chloride, lb.....	45	55
White, lb.....	3½	4	Green (Sapo Viridis), lb.....	12	25	Sol., lb.....	13	16
RESORCIN, White, oz.....	25	30	SPERMACEI, lb.....	55	60	Citrate, U. S. P., lb.....	90	1 00
ROCHELLE SALT, lb.....	30	32	TURPENTINE, Chian, oz.....	75	80	And Ammon., lb.....	75	80
ROOT, Aconite, lb.....	22	25	Venice, lb.....	10	12	And Quinine, lb.....	1 50	3 00
Althea, cut, lb.....	30	35	WAX, White, lb.....	50	75	Quin. and Stry., oz.....	35	40
Belladonna, lb.....	25	30	Yellow.....	40	45	And Strychnine, oz.....	13	15
Blood, lb.....	15	16	WOOD, Guaiac, rasped.....	5	6	Dialyzed, Solution, lb.....	50	55
Bitter, lb.....	27	30	Quassia chips, lb.....	10	12	Ferrocyanide, lb.....	55	60
Blackberry, lb.....	15	18	Red Saunders, ground, lb.....	5	6	Hypophosphites, oz.....	20	25
Burdock, crushed, lb.....	18	20	Santal, ground, lb.....	5	6	Iodide, oz.....	40	45
Calamus, sliced, white, lb.....	20	25	<b>CHEMICALS.</b>					
Canada Snake, lb.....	30	35	Acto, Acetic, lb.....	12	13	Lactate, oz.....	5	6
Cohosh, Black, lb.....	15	20	Glacial, lb.....	45	50	Pernitrate, solution, lb.....	15	16
Colchicum, lb.....	40	45	Benzoic, English, oz.....	20	25	Phosphate scales, lb.....	75	80
Columbo, lb.....	20	22	German, oz.....	10	12	Sulphate, pure, lb.....	7	9
Powdered, lb.....	25	30	Boracic, lb.....	20	25	Exsiccated, lb.....	8	10
Coltsfoot, lb.....	38	40	Carbolic Crystals, lb.....	28	35	And Potass. Tartrate, lb.....	80	85
Comfrey, crushed, lb.....	20	25	Calvert's No. 1, lb.....	2 10	2 15	And Ammon. Tartrate, lb..	85	90
Curcuma, powdered, lb.....	13	14	No. 2, lb.....	1 35	1 40	LEAD, Acetate, white, lb.....	13	15
Dandelion, lb.....	15	18	Citric, lb.....	65	70	Carbonate, lb.....	7	8
Elecampane, lb.....	15	10	Gallic, oz.....	10	12	Iodide, oz.....	35	40
Galangal, lb.....	15	18	Hydrobromic, diluted, lb.....	30	35	Red, lb.....	7	9
Gelsemium, lb.....	22	25	Hydrocyanic, diluted, oz. bot-	1 50	1 60	LIME, Chlorinated, bulk, lb....	7½	4
Gentian, lb.....	9	10	tles doz.....	22	25	One lbs.....	6	7
Ground, lb.....	10	12	Lactic, concentrated, oz.....	3	5	LITHIUM, Bromide, oz.....	40	45
Powdered, lb.....	13	15	Muriatic, lb.....	18	20	Carbonate, oz.....	30	35
Ginger, African, lb.....	11	12	Chem, pure, lb.....	10½	13	Citrate, oz.....	25	30
Po., lb.....	13	15	Nitric, lb.....	25	30	Iodide, oz.....	50	55
Jamaica, blechd., lb.....	25	28	Chem, pure, lb.....	25	30	Salicylate, oz.....	35	40
Po., lb.....	28	30	Oleic, purified, lb.....	75	80	MAGNESIUM, Calc., lb.....	55	60
Ginseng, lb.....	2 60	3 00	Oxalic, lb.....	12	13	Carbonate, lb.....	18	20
Golden Seal, lb.....	75	80	Phosphoric, glacial, lb.....	1 00	1 10	Citrate, gran., lb.....	40	45
Gold Thread, lb.....	90	95	Dilute, lb.....	13	17	Sulph. (Epsom salt), lb.....	1½	3
Hellebore, White, powd., lb..	12	15	Pyrogallic, oz.....	32	35	MANGANESE, Black Oxide, lb....	5	7
Indian Hemp.....	18	30	Salicylic, white, lb.....	2 00	2 65	MENTHOL, oz.....	25	30
Ipecac, lb.....	2 90	3 00	Sulphuric, carboy, lb.....	2½	2½	MERCURY, lb.....	90	95
Powdered, lb.....	3 10	3 20	Bottles, lb.....	5	6	Ammon (White Precip.),.....	1 40	1 45
Jalap, lb.....	55	60	Chem, pure, lb.....	18	20	Chloride, Corrosive, lb.....	1 15	1 20
Powdered, lb.....	60	65	Tannic, lb.....	1 10	1 25	Calomel, lb.....	1 25	1 30
Kava Kava, lb.....	40	90	Tartaric, powdered, lb.....	45	50	With Chalk, lb.....	60	65
Licorice, lb.....	12	15	ACTANILID, lb.....	1 60	1 10	Iodide, Proto, oz.....	35	40
Powdered, lb.....	13	15	ACONITINE, grain.....	4	5	lin., oz.....	30	
Mandrake, lb.....	13	18	ALUM, cryst., lb.....	1½	3	Oxide, Red, lb.....	1 30	1 35
Masterwort, lb.....	16	40	Powdered, lb.....	3	4	Pill (Blue Mass), lb.....	70	75
Orris, Florentine, lb.....	25	28	AMMONIA, Liqueur, lb.....	12	15	MILK SUGAR, powdered, lb.....	50	55
Powdered, lb.....	28	30	AMMONIUM, Bromide, lb.....	65	75	MORPHINE, Acetate, oz.....	1 65	1 75
Pareira Brava, true, lb.....	40	45	Carbonate, lb.....	12	13	Muriate, oz.....	1 65	1 75
Pink, lb.....	75	80	Iodide, oz.....	35	40	Sulphate, lb.....	1 50	1 60
Paraley, lb.....	30	35	Nitrate, crystals, lb.....	40	45	PERSIN, Saccharated, oz.....	35	40
Pleurisy, lb.....	20	25	Muriate, lb.....	12	16	PHENACETINE, oz.....	75	80
Poke, lb.....	15	18	Valerianate, oz.....	55	60	PHLOCARPINE, Muriate, grain....	5	6
Queen of the Meadow, lb.....	18	20	AMYL, Nitrate, oz.....	16	18	PIPERIN, oz.....	1 00	1 10
Rhatany, lb.....	20	30	ANTIPYRIN, oz.....	1 00	1 10	PHOSPHORUS, lb.....	90	1 10
Rhubarb, lb.....	75	2 50	ARSENIC, oz.....	2 25	2 40	POTASSA, Caustic, white, lb....	55	60
Sarsaparilla, Hond, lb.....	40	45	ARSENIC, Donovan's sol., lb....	25	30	POTASSIUM, Acetate, lb.....	35	40
Cut, lb.....	50	55	Fowler's, sol., lb.....	13	15	Bicarbonate, lb.....	15	17
Senega, lb.....	55	65	Iodide, oz.....	35	40	Bichromate, lb.....	10	13
Squill, lb.....	13	15	White, lb.....	6	7	Bitrat (Cream Tart.), lb.....	28	30
Stillingia, lb.....	22	25	ATROPINE, Sulp., in ¼ oz., oz....	7 00	8 00	Bromide, lb.....	45	50
Powdered, lb.....	25	27	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.....	4	25	4	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	60	3	75			Origanum, lb.....	65	70				
Nitrate, gran., lb.....	8	10	Oxide, lb.....	13	60			Patchouli, oz.....	1	75	1	80	
Permanganate, lb.....	50	55	Sulphate, lb.....	9	11			Pennyroyal, lb.....	2	00	2	10	
Prussiate, Red, lb.....	50	55	Valerianate, oz.....	25	30			Peppermint, lb.....	4	00	4	50	
Yellow, lb.....	32	35	<b>ESSENTIAL OILS.</b>						Pimento, lb.....	2	60	2	75
And Sod. Tartrate, lb.....	30	35	Oil, Almond, bitter, oz.....	75	80			Rhodium, oz.....	80	85			
Sulphuret, lb.....	25	30	Sweet, lb.....	50	60			Rose, oz.....	6	00	7	00	
PROPYLEAMINE, oz.....	35	40	Amber, crude, lb.....	40	45			Rosemary, lb.....	70	75			
QUININE, Sulph., bulk.....	25	28	Rec't, lb.....	65	70			Rue, oz.....	25	30			
Ozs., oz.....	33	38	Anise, lb.....	2	75	3	00	Sandalwood, lb.....	5	50	9	00	
QUINIDINE, Sulphate, ozs., oz.....	16	20	Bay, oz.....	50	60			Sassafras, lb.....	65	70			
SALICIN, lb.....	2	75	Bergamot, lb.....	5	00	5	25	Savin, lb.....	1	60	1	75	
SANTONIN, oz.....	20	22	Cade, lb.....	90	1	00		Spearmint, lb.....	6	00	6	25	
SILVER, Nitrate, cryst., oz.....	95	1	Cajuput, lb.....	1	80	1	90	Spruce, lb.....	65	70			
Fused, oz.....	1	00	Capicum, oz.....	60	65			Tansy, lb.....	4	25	4	50	
SODIUM, Acetate, lb.....	30	35	Caraway, lb.....	3	50	3	75	Thyme, white, lb.....	1	80	1	90	
Bicarbonate, kgs., lb.....	2	75	Cassia, lb.....	1	50	1	60	Wintergreen, lb.....	3	00	3	00	
Bromide, lb.....	63	65	Cinnamon, Ceylon, oz.....	1	50	1	60	Wormseed, lb.....	3	50	3	75	
Carbonate, lb.....	3	6	Citronelle, lb.....	70	75			Wormwood, lb.....	6	50	6	75	
Hypophosphite, oz.....	10	12	Clove, lb.....	1	60	1	65	<b>FIXED OILS.</b>					
Hyposulphite, lb.....	3	6	Copaiba, lb.....	1	60	1	75	CASTOR, lb.....	10	13			
Iodide, oz.....	40	45	Croton, lb.....	1	50	1	75	Cod Liver, N. E., gal.....	1	00	1	25	
Salicylate, lb.....	1	80	Culcub, lb.....	18	00	20	00	Norwegian, gal.....	1	25	1	50	
Sulphate, lb.....	2	3	Cumin, lb.....	5	50	6	00	Cottonseed, gal.....	1	10	1	20	
Sulphite, lb.....	10	12	Erigeron, oz.....	20	25			LARD, gal.....	90	1	00		
SPIRIT NITRE, lb.....	30	55	Eucalyptus, lb.....	2	00	2	10	LINSEED, boiled, gal.....	75	78			
STRONTIUM, Nitrate, lb.....	18	20	Fennel, lb.....	1	60	1	75	Raw, gal.....	73	75			
STRYCHNINE, crystals, oz.....	1	10	Geranium, oz.....	1	75	1	80	NEATSFOOT, gal.....	1	25	1	30	
SULFONAL, oz.....	50	55	Rose, lb.....	3	20	3	50	OLIVE, gal.....	1	35	1	40	
SULPHUR, Flowers of, lb.....	2	4	Juniper berries (English), lb.....	4	50	5	00	Salad, gal.....	2	25	2	40	
Pure precipitated, lb.....	13	20	Wood, lb.....	70	75			PALM, lb.....	12	13			
TARTAR EMETIC, lb.....	50	55	Lavender, Chiris. Fleur, lb.....	3	00	3	50	SPERM, gal.....	1	60	1	75	
THYMOL, (Thymic acid), oz.....	60	65	Garden, lb.....	1	50	1	75	TERPENTINE, gal.....	70	75			
			Lemon, lb.....	3	50	3	75						

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Extract Orange.

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Extract Sarsaparilla.

Per bottle 16 fluid ozs., \$1.40 Per demijohn 128 fluid ozs., \$9.00

Extract Coffee.

Per bottle 16 fluid ozs., \$1.40 Per demijohn 128 fluid ozs., \$9.00

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Liquor Acidi Phosphorici Compound.

(WITH IRON)

\$3.00 per demijohn of 128 fluid ounces.

Liquor Acidi Phosphorici.

(WITHOUT IRON)

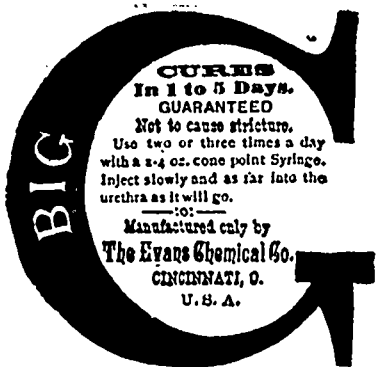
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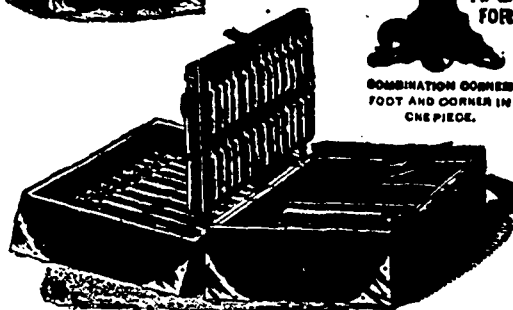
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