The Institute has attempted to obtain the best original copy availabln for filming. Features of this copy which may be bibliographically unique, which may alter any of the images in the reproduction, or which may significantly change ste usual method of filming, are checked below.Coloured covers/ Couverture de couleur

Covers damaged/
Couverture endommagée

Covers restored and/or laminated/
Couverture restaurée et/ou pelliculéeCover title missing/
Le titre de couverture manque

Coloured maps/
Cartes géographiques en couleur
Coloured ink (i.e. other than blue or black)/
Encre de couleur (i.e. autre que bleue ou noire)

Coloured plates and/or illustrations/
Planches et/ou illustrations en couleurBound with other material/
Relié avec d'autres documents

Tight binding may cause shadows or distortion along interior margin/
La reliure serrée peut causer de l'ombre ou de la distorsion le long de la marge intérieure


Blank leaves added during restoration may appear within the text. Whenever possible, these have been omitted from filming/ II se peut que cerraines pages blanches ajoutées lors d'une restauration apparaissent dars le texte, mais, lorsque cela était possibie. ces pages nont pas ètė filmèes.

L'Institut a microfilmé le meilleur exemplaire qu'il lui a été possible de se procurer. Les détails de cet exemplaire qui sont peut-être uniques du point de vue bibliographique, qui peuvent modifier une image reproduite, ou qui peuvent exiger une modification dans la méthode normale de filmage sont indiqués ci-dessous.Coloured pages/
Pages de couleur


Pages damaged/
Pages endommagées


Pages restored and/or laminated/
Pages restaurées et/ou pelliculees


Pages discoloured. stained or foxed/
Pages décolorées, tachetées ou piquées


Pages detached/
Pages détachées


Showthrough/
TransparenceQuality of print varies/
Qualité inégale de l'impression


Continuous pagination/
Pagination continueIncludes index(es)/
Comprend un (des) index

Title on header taken from:/
Le titre de l'en-téte provient:


Title page of issue/
Page de titre de la livraison


Caption of issue/
Titre de départ de la livraison


Masthead/
Gėnéique (périodiques) de la livraison

Additional comments:/
Commentaires supplémentaires:

This item is filmed at the reduction ratio checked below/
Ce document est filmé au taux de réduction indiqué ci-dessous.


Late W. Hurlstone \& Co. Established 1830.
Wakers on the premises of SURGICAL INSTRUMENTS ELASTIC STOCKINGS TRUSSES SURGICAL APPLIANCES
Druggists' Sundrymen, etc.
Gas Tubing Eraided Speaking Tubing Gas Tubing, Etc.

Samples, Price Lists, and Quotations on appli, ation
58 Blackfriars Road, London, S.E., Eng.

High Grade $\psi_{\psi_{*}}$ \%on Stationery is the

## cer <br> Velvet Jfinish


Three Sizes of NOTE PAPER
Three Sizes of TABLETS Three Sizes of ENVELOPES
Sample and price on application.
Do you SEELX, 1haer Wintow Blind" Do you 13UY it right?

## Buntin, Gillies\& Co.

 Hamilton, Ont.Mascotte Playing Cards, $\$ 2.00$ per dozen.


Under ourtrade mark "TYRIAN" we manufacture a full line of Druggistic nuber goods. Write for cataloguc. TYRE RUBEEQ EO., Andover, MaSs., U.S.A.

You should sell them


Made in Three Styles, to Retail at 50c., $\$ 1.00$, and $\$ 1.50$.

Wearing thiv gament one can ao atl in the abdent
 fort. If gour dealer wall mint wiply sou, van ablue arit brat if ches mexw $c$ for one lis mad Alunes clunded if returned unailafacters:

EVER-READY DRESS STAY CO. Windsor-Ont-Coronto.

# EuAlS SOONS (LIMITED) 

43 and 45 St. Jean Baptiste St., MONTREAL.
23 Front Strect West, TORON ${ }^{\circ} 0$.

BRANCHES IN . . Victorin B.c.
Wholesale Druggists . . . AND . . . MANUFACTURING PHARMACEUTICAL CHEMISTS

Druggists' Sundries, Proprietary Articles, Etc., etc.

The Largest Importers and Exporters of Drugs in the Dominion.

EYANS SONS \& C0, BlaNS, LESCHER \& WEBB, Liverpool, Eng. London. Eng.

Lyman, Knox \& Co. Importers and (D) Wholesale Druggists

374-:578 St. P:ant Street, MON'TIEEAL.
43 Collothe Street, TOIRON'IT.

We are General Agents for.........


A Sclentifle Specifle for Coughs and Colds.

Gives a good proflt to dealers . RETAILS and satisfaction to consumers. ....25 CENIS


Whity Fol: glotations
H3ELLLOLSE, DILLON \& CO. 30 ST. FRANCOIS-XAVIER STREET, MONTREAL.


DRUCGISTS BEWARE!


While we are quite ready to admit tlat..

## YOUR TIME IS SHORT

for picasure and recreation, yet if you are wise-and he know you are-you can increase it, and with profit; and if you will only spare us a few moments we will show you how a Camera will do all this!

## Fred. A Mulholland \& Co.

# Canadian Druggist <br> Devoted to the interests of the General Orug Trade and to the Aduancement of Pharmacy. 

"APENTA"<br>THE BEST NATURAL APERIENT WATER.<br>Botted at the UJ HUNYADI SPRINGS; Buda Pest, Hungary.

Under the absoluti control of the Royal Hunsarian Chemical Institute (Ministry of A.griculuric), buada Pest.

## "APENTA"

## THE BEST NATURAL APERIENT WATER.

"We know of no stronger or more favourably-constituted Natural Aperient Water than that yielded by the Uj Humyadi Springs."

## 2. Lichitwsezucr

Koyal Councillor, MI.D. "Néissor of Chentistry, and Director of the Reval Hlungarian State Chemical Anstitute (Ministry of Asriculture), Euda Pest.

## "APENTA"

THE BEST NATURAL APERIENT WATER.

By instructions from the Apollinaris Company, Limited, now offered to the Trade at

| $\$ 5.50$ | per case of |
| :--- | :--- |
| $\$ 5$ | large glass botlics |
| $\$ 8.00 \quad$ " | 50 small " " |
| $\$ \$ .00 \quad 100$ glassquarter ", |  |

## SHOULD THE PRICE OF

## "APENTA"

be reduced, we guarantec to allow such reduction to our Buyers on their unsold stoc.., ar I, as lar as mossible, :o secure a corresponding reduction in Retailers upon acir unsold stock.

Some Exportens:
THE APOLLINARIS COMPANY, Ltd., I.ONDON.

Canadian Subragents:
WALTER R. WONHAM \& SONS,
Mroh.real.

## Canadian Druggist

WILLIAM J. DYAS, PUBLISHER.

Subserdption \$1 per year in advance. Advettaing rates on application
The Canamas: Dreggobt is isued on the egth of earih
 stan of the month.
New adiertivements or changes to be addrensed

## Canadian Druggist.

is Tononiostrhet, TORONTO, ONT.

EUROPEAN agencles:
L.oncon, Figitand: is Fleet Stiest, E C:

Faris, France: 18 Rue de la Grange Batelerie

## CONTENTTS.

The College Council.
Medical Inthener.
You Must be l'rogresive.
Which are the Cinity Ones?
An Eacellent Chuice.
Editorral Notes.
The Physician and the Dispenser.
Guelec I'narmaceancal Association.
Montreal College $S$ udents' Dinner.
Death of a Well-kacun Drug Traveller.
Legat.
Whson v. Lymar.
Phabmace in England
Correspondrnce:
Wholesale Drug anci Proprietary Medicine Association.
Trade Notes.
Montreal Notes.
Prince Edward Island Noles.
Ontario Colloge of Pharmacy.
A Iacteriological Outfit.
$\therefore$ Convenient Drying Box.
The Cleaning of Fillers.
On the Manufacture and Purnty of the Phosphoglycerates.
Defective Medical Training.
Colorado State Pharmacal Association.
Ink for Show Cards.
Bicices Suppidment.
Reneedies Introduced in IS96.
New Ideas.
pharmacruticai. Notes.
Photographic Notes.
Formulary.
The Scheren of Orrics. Pimary Ametropia.
Optical Delpartment. Optical Items.
Auvektialng Departamet. Practical Hints on Advertising.
Marke, Davis \& Co.'s Digestive Eerment Department.
Amonist Our Avvertisers.
Drugileprorts.

The College Council.
l'crhaps no more opportune time could be selected for a discussion of the above subject than the present. This body is now in the terminal period of its career, and if we unwittingly inflict censure upon it no strious harm can result. The Council of the Ontario College of Pharmacy still maintains its original position as ann executive educational body. Its members pass in review, during the tiree dajs of each session, the work which the registrar and members of the teaching staff have been engaged in, and endorsed what. in their opinion, seems the wisest thing to do. In the limited sphere in which they work, their action cannot well be called in question, but that they use all the talents they possess to further the prosperity of those whose fees they disburse may well be queried. The council are of course not to be blamed that the lield of their labors has not been enlarged. They do all that they are required to do, and if those who pay for the playing of the tune do not ask for more and better music it is their own fault.

If the fees paid by druggists were expended in two equal amements, one to sustain the executive council, and the other to devise and put into execution ways and means for the betterment of the condition of authorized graduates, less compuncion would be experienced by members in contributing their annual fee. The amount paid by each individual annually is small, but the aggregate from all the members is large, and could doubtless be effectively employed in procuring better protection than is now afforded to votaries of the retail trade. In the dajs of the origin of the Pharmacy Act druggists had all the field to themselves, and could afford to expend a portion of their profits in eq̧uipping a college and sustaining a teaching staff to improve the education of their successors, but that day is now past ; instead of helping they need help, and it is now only fair that when the teaching in-
stitution is practically able to care for itself a portion of its revenue should be expended for its benctactors. Those who purpose running for the new council will soon be in the field. Therr appeals for support should be based upon the needs of ther constituents, and if any need is more apparent than the one here suggested the new council will have more han routine work to do.

Those who control the vartous district associations of the province should take up this matter, and press it to a practical conclusion.

The time is opportune, the necessity is pressing, and the goal is worth attaning. Who will make the start?

## Medical Influence.

The gradual encroachment of members of the medical profession upon the natural preserves which should furnish new openings for our graduatung pharmacists is begmuing to establish a difficulty which cannot well be surmounted. It is planly apparent that the field in Canada for medical men is also becoming narrowed, and that they are obliged to assume every position which offers an increased prospect of furnishing a livelihood. The Pharmacy Act is, of course, responsible for the present state of affairs, but how to change it cannot well be suggested. When the original Act of 1871 was intro. duced to the Legislature, the medical influence of that body was, as now, a menace to it, :arless ther f:aturnty was duly recognized as being worthy oi special privileges. The Act was, the:refore, passed on a compromise basis, aind has ever since remained as a sem: :aedical and pharmaceutical enactment. Had the Medical Act given any reciprocal privileges to pharmacists, then the pharmaceutical body would not be so humiliated by the feeling that they existed only on sufferance. It is assuredly to be regretted that any compromise was originally arranged by the acting representatives of the pharmacists of that time. They doubtless did not furesce the future consequences of their submassion, or they would have never agreed to submit.

True as the foregoing is, it is none the less true than that the druggists of to-day are apparently drifting on in a similar submissive state. Not only has the profession become a tail-ender or a trailer to that of medicine, but the college which is under our control and maintained by the
fees of druggists is fast becoming a semimedical institution. Three out of the four members of the faculty are medical men, and the assistant to one member of the staff is also a medical man. Under such circumstances it would be unnatural to expect anything else than that medical influences would be strongly dominant, especially since the present condition has been maintamed practically since the erection of the new college buildiag. In statugg these plain facts no reflection is intended upon the medical men who are acting in the capacity of instructors. Their competence camot be gainsaid. They have green as grod service to the college do could be expected from any medical men, but the principle is wrong. It would not be expected that when medical schools were in need of instructors they would search the ranks of pharmacists to secure them, nor should it be expected, in the presem advanced stage of pharmaceutical training, that we should search the ranks of medical men to scoure instructors to impart knowledge that some of our own graduates should be competent to give. The parallelism of medical aggression in both fields is 100 apparent to need much comment, but we would auggest that our council be not quite so lenient in giving away privileges that they wan control, and which druggists alone should enjoy.

## You Must Be Progressive.

Tou many druggists, either through force of habit, downright stubbornness, or ignorant short-sightedness, are allowing their trade to be taken from them by competitors who are more wide awake, enterprising, and full of energy than themselves. The slow, easy-going meth. ods, which some business men employed in years gone by, and notwithstanding which they were emabled to make confortable livings, and in some cases competencies, have all gone, their day is closed; the time of sitting quietly by and waiting for business to come is a thing of the past, and the dilatory man, the man who believes and demands that the world owes him a living whether he strives for it or not, is being everywhere pushed to the wall. What is the secret of success in business as seen in the deparment store, for instance? It may be summed up in one word, "advertising." Now, we do not mean by this word the ordinarily accepted definition of the term-
this we may enlarge upon again. We mean that the druggist who wants to do business, who wants to make a living, or, if possible, more than a living, must make hinself known, keep himself known, and make the public realize that he is thoroughly in existence. He must keep his name, his goods, his place of business, continuously before the purchasing public ; he must not only advertise reguharly and persistently through the newspapers, but he must, by his window displays, changed regularly and with as great care as the adverisement is worded. Keep in view what the season's demands show to be "taking lines." He must by courtcous and attentive treatment of all customers make his place of business an attraction for the purchaser, and he must, by his deportment, outside as well as inside the store, endeavor to command the respect and confidence of all.

These things combinea we call "advertising," and if the druggist of the future is to be successful it must, we believe, be on these very lines.

## Which are The Guilty Ones?

The circular issued by the officers of the O.S.R.D. to the wholesale trade was the subject of an animated discussion at the recent meeting of the Wholesale Druggists' Association.

Particular objection was taken to the postscript, and the president of the Retail society admitted that it was not founded on fact, as the drug firm who was accused of the act was not selling to the persons mentioned in the circular (Messrs. Woodward \& Co.). It is particularly unfortunate that such charges should be made without proper enquiry, and we trust harmony will again prevail between the tivo associations.

## An Excellent Cholce.

Mr. John H. Mackenzie, president of the Council of the Ontario College of Pharmacy, has been chosen as president of the Reform Association of Toronto. We congratulate Mr. Mackenzie on his appointment to such an important position, and we also congratalate the Reform Association on securing as its president a man of such calibre, one who puts his whole energy into anything he under$n^{n} \cdot 2 s$, and who is so highly esteemed, not only by his brother pharmacists, but by all who have the pleasure of bis acquaintance. We want just such men in our legislative halls, and trust before long to be able to write J. H. Mackenzie, M.P.P.

## Highest arade

# DIGESTIVE FERMENTS 

E OFFER a line of lligh Grade Digestive Ferments of our own manufacture, which we believe is superior to any simitar line of goods now on the market. The prices given are net without discount.

## PEPSIN AND PREPARATIONS

DIKE'S PEPSIN, 1-3,000, U.S. Ph.-The advantages of this over all other Pepsins are suficiently well known to make further com. ment unnecessary. $50 c$. per $02 ., \$ 7.20$ per 1 b .

DIKE'S ESSENCE OF PEPSIN -This preparation will be found very much stronger in both digestive and milk-curding properties than any similar preparation on the market. In $8.0 z$. bottles at $\$ 5.00$ per dozen.

SACCHARATED PEPSIN, 1,300 , U.S. Ph.-Much of the Saccharated Pepsin sold corresponds in tive test of the old U.S. Ph. of 1880. Ours will be found to the exactly onetemth of the strengit of Dike's Pepsin and to conform in all respects to the present U.S. Ph. Standard of 1890 . $\$ 1.00$ per 16 .

GLYCEROLE OF PEPSIN-A ro per cent. glycerine solution of Pure Pepsin. Very active and convenient for the dispenser and manufacturer. Eich minim represents one grain of Saccharated Pepsin and will digest 300 grains of congulated allumen. \$1.00 per pint.

LACTINATED PEPSIN--s compound powder containing in proper proportion all the digestive ferments of the alimentary canal, including Pep,in (proteolytic); Pancreatic Dinstase (starch converting); Steapsin (emulsifying and fat spliting) ; and Trypsin (proteolyic), combined with small proportions of hydrochloric and lactic acids. 25 c . ner oz.; $\$ 3.50$ per lb.

ELIXIR OF LACTINATED PEPSIN, $\$ 7.00$ per dozen pints; $\$ 3.60$ per gallon.

## PANCREATIN AND PREPARATIONS

PANCREATIN (STEARNS')-A very high grade pancreat: extract containing the essential digestive ferments, Trypsin, Diastase (pancreatic), Steapsin, and the nilk curdling-ferment. It, therefore, has the power of digesting proteits, converting starch into maltose, isomaltose, and dextrose; emulsionizing and splitting up fas, and curdling and digesting milk. 50 . per oz.; $\$ 7.20$ per 16 .

STEARNS' ESSENCE OF PANCREATIN-This preparation represents in a high degree all the propertics of fresh pancreatic juice. $\$ 5.00$ per dozen $S$ oz. botlles.

SACCHARATED PANCREATIN ( 25 per cent. pure Pancrea: in)-20c. per 02.; $\$ 2.00$ per Ib.

GLYCEROLE PANCREATIN (Io per cent. pure Pancreatin) - Per pint, \$t.00.

## DIASTASE

DIASTASE-STEARNS (Pancreatic Diastase)-The isolated amylnlytic ferment of the Pancreatic juice. Sir William Roberts, M.D., P.R.S., the most eminent living auhority on digestive ferments, in his book on "Digestion and Diet," accords Pancreatic Diastase the highest rank anoong the amylolytic ferments, whether of animal or of vegetable origin. $\$ 6.00$ per dozen flasks, each containing 40 pilloids of $21 / 2$ grains.

ESSENCE DIASTASE-STEARNS-A deticious cordial containing in each teaspoonful two grains of "Diastase-Stearns." Fur the treatment of amylaceous dyspe,$\rightarrow$,, in which bread, cake, pancakes, as weli as potatoes, peas, beans, and other substances containing starch, resdily ferment in the alimentary canal. In $80 \%$. vials at $\$ 8.00$ per doz.

## RENNIN

RENNIN--The isolated milk.curdling ferment. A most concenquated product, each grain curdling 32 fuid ounces of milk. Uscful for manufacturing Liquid Rennet for making junket, whey, etc. 50c. per 02.; $\$ 7.20$ per lb.

## FREDERICK STEARNS \& CO.,

Detroit, Mich.
New. York City.
Lgadon, Eng.

Manufacturing Pha:macists, WINDSOR, ONT.

## Turned Wood Wials

These are something entirely different from anything heretofore used for dispensing pills, etc. They are extremely neat and cheap.

$$
\frac{3 \mathrm{dr}}{30 \mathrm{c} . \mathrm{ag} \text { grost. }} \quad \frac{2 \mathrm{dr}}{35 \mathrm{c} . \mathrm{a} \text { gross. }} \quad \frac{4 \mathrm{dr}}{\text { soc. a gross. }} \quad \frac{8 \mathrm{dr} .}{\text { Soc. a gross. }}
$$

2. Trial Urder will not cont you very much.

SECRETARY $\$ 6.60$
SILVER TEA SERVICE \$8. 60 SHOW CASE $\$ 4.50$ RUBBER STAMPS \$4.25. GLASS JAR

OR ANY OTIER SETS DESIRED.
BEEMAN'S PEPSIN GUM. BRITTEN'S PEPSIN "ROLLS." FAUITLESS PEPSIN "CHIPS." SOMERVILLE'S "TWIN SNAPS," with Alarm Boll.

W'E SOL,:CIT YOUIR PIRLEFERISNCF FOR OUK


ALSO IEOR

## Paris Green

Linseed Oil Turpentine Whise Lead

Our TINCTURES and FLUID EXTRACTS are carefully prepared by skilled chemists according to the recognized standards. That they are cheaper than others is all in your favor. We hope for your critical examination and enquiry for quotations. Send for our pamphlet on NON-ALCOHOLIC TINCTURES, E. \& Co.; they are very econ. omical when their use is permissible. EXTRACT OF VANILLA is a specially with us.

ELLIOT \& CO.
TOF?ONTO


## Editorlal Notes.

The ammal meeting of the British Pharmaceu'sal Conference will be held August gth nextand followng days at (i.as gow. The honorary secretary is Mr. J. Anderson Russell.

The number of whole ale drug houses in the United States is gradually being redured. The last firm to tetire is the old-established one of Tarrant $\&$ Co. Greenwich street, New York. They will in future concentrate their business to the sale of proprietary articles.

The United Alkali Co.. Liverpool, England, have purchaved one hundred acres of land on the Detroit Riser, west of the River Rouge. The price pand is sand to have been $\$ 150,000$, and, further, that the company will construct a plant which will give emplogment of at least one thousand men.
"How the iodine ring is held together," in our English letter this month, is interesting reading, as is also the whole letter. Our correspondent is one of the best informed men in England as to what is happening in drug and chemical circles, and each month's contribution is timely and up-to date.

At a meeting of the I emal Association of the Province of ( )uebec, held in Mom. real, it was resolved to appeal to the Gos-ernor-Generat to disallow the legislation affecting the profession recently enacted by the Provincial Parliament, by which any dentist can employ a graduate of any college, on the condition that the dentist so employing him is present when any operation or work is in progress.

At Moneymore, in the Comnty Kerry, Ireland, a woman named Mary Brennan, for selling ether on October $3^{\text {oth }}$ last, was fined $£_{5}$ and costs. The prosecution was brought under the 30 th section of the Pharmacy Act, but the reason why the case was pressed was that ether drink. ing is becoming such a vice in Kerry that clergymen of all denominations are loud in their denunciations of this pernicious habit.

The firm of Parke, Davis \& Co., De. troit, Mich., has been reorgani\%ed. David Whitney, jr., Henry Stephens and Theodore 1). Buhl, of Detroit, who held blocks of Geo. S. Davis' stock, have purchased the stock of a number of small stockholders,
and whh H. C. Park, now hold a controlling meteres: Mr. Bavis remans with the company as nomitnal advisory manager for two years. H. C. Parke, the president, remains th the head of the concern.

The Postmaster-(ieneral says that, ia view of the somewhat widely prevalent misunderstatidng as to the printing and illustration which may be placed on the address side of private pout cards, postmasters are informed that in cases in which a card not conforming to the reguhations in this respect has to be taxed as a short pail letter be is authorized until further ordered to collect the stuple deficiency at letter rate of two cents instead of double the deficency. Nothong whatever in the way of an advertisement, whether in words or by means of designs, may appear on the address side, nor may the description of the business be ex. panded beyond what might be a service address on a letter.

The meeturs of the Bratish Association for the Advancement of Science to be held in loronto this year promises to be of unusual interest, and the committee have been at work for some time prepar. ing for the esent. The meeting will tiegin Aug. sth and will last about a week. There will be dally sessions of most sections, and in details the usual progiamme will be fullowed as when meeting in Eng. lish cities. The buldings of Toronto University are to be used for the purposes of the mecting. Among those who have announced that, if circumstances permit, they intend to be present are: Lord l.ister, the retiring president of the as sociation ; lord Kelvin, Sir Henry Roscoe, I.L.D. ; Prof. A. G. Vemon Harcourt, Prof. G. Carey Foster, F.R.S. ; Prof. Burdon-Sanderson, IL..I., F.R.S.; Prof. W. F. R. Weldon, F.R.S. ; Prof. Milne, F.R.S. ; Major L. Dawm, F.R. (.S.S. ; J. Scott Keltie, F.R.G.S. ; Prof. Lloyd Morgan, Prof. (ieorge Darwin, F.R.S. ; Prof. T. G. Bonney, F.R.S.; Prof. Boyt Dawkins, F.R.Se, F.R.A., F.G.S. ; Francis Galton, D.C.L.; Prof. Henry Sed?wick. The council of the association has already chosen presidents for several of the sections, and the names announced so far are: Geology, Dr. G. M. Dawson, of O.tawa; chemistry, Prof. Willian Ramsay; zoology, Prof. Louis C. Miall ; anthropology, Sir Wm. Turner; phssiology, Prof. Michael Foster ; botany, Prof. Marshall Ward.

## The Physician and the Dlspenser.

In an article in the January issue of Thic Cunadian Practitioner (which, by the way, is now under lew managenent, ahbough the editors remann as heretofore) attention is drawn to the evils existing both in the departmental stores, where prescriptions are doppensed, and also in the retall drug store, where protit is more of a consideration than a conscientious regard for the life and well-being of patients (and unfortunately there are a few such, although, we believe, small in number).
The relations existing between toctor and druggist have been so haboriously discussed and threstaed out that it would he supetfiuous for us to enlarge on them here. Yet it is a question which must ever commend itself to the better judg. ment of both parties whether it would not be wise to work as l!armoniously as possible tugether, la,ing aside the petty issues which arise, and endeavoring by a more thorough understanding of the circumstances and surroundings to cultivate a feeling of dependence on each other, which would ultimately lend to a state of more perfect reliance and contidence.

The suggestion contained in the latter portion of the article which we reproduce in full is one that has conmencied itself to us for some time past, and we believe the "experiment" worthy of a trial. The following is the article:
"It may be owing to recent hard times or a public demand that the sate of patent nostrums and curcoills have received such attention from the druggists. Departmental stores have estabilished complete drus departments, cut prices, and otherwise interfered with the drug trade to such an extent that the existence of the legitimate druggists is in danger. No business can be carried on without a profit. Large deparmental stores can afford to accept a smaller percentage of profit than stores dealing in any one single line. Competition is usually health. ful, but when it comes down to cutting prices in dispensing pescocriptions a very serinus condition of affairs exists.
There are honest and dishonest drugfists, and the dishonest ones will ath io meet the cut from the ' mrimental stores, and quite likely the ,uttent and doctor will both suffer. The cul by the dishonest druggist will be in the shape of sulbstitution or using inferior drugs. The conscientious druggist will simply say that a prescription camot honestly be filled for the price and declune to dispense it. The departmental store will fill it, charge low to secure custom for the general store, and thus cut the legitimate druggist -an absolute necessity-out oi his busi-
ness. The fen cents saved on the pre scription may be proft, but if it is at the expense of quality it is a distinct loss. The physictan has a right to know by whom and how his preserption is dispeased, because there are honest and dis. honest druggists. He has a right to demand that some thoroughly competent and reliable dispenser compoumds it. He has also a right to see that his patiems are not overcharged.

Druggists have not treated the physicians farly. Sume of them placard their stores with Bunjon's kemedes, 1)r. 131,nk's Sure Cure. 1 ll , etc., in such a mamer that physerams hecone dispusted. They counter-prescribe, fill repeats without orders, or make up an extra boule for a friend, and do many other things that are not right. They say that the dector does not treat them fairly by allowing his prescription to be filled anywhere. There exists overcharging by drusists and percentage receiving by doctors, but we believe that these are only in rare instances. As a rule, charges are farly made by honorable druggists. We betieve that in a city the size of Toronto there is rowm for three or four, at least, thorouphly reliable dispensing chemists, who will handle mo patent mostrams abhatecer. No objection could be raised to keeping perfumes and toilet articies, bat in every other respect they should be simply dispensing chemists. If such amounce themselves, we believe that they will receive the support of the pinsicians. Who will try the experimem?"

Quebec Pharmaceutical Association.

The Preliminary Hoard of Exammers of the Pharmaceutical Asvociation oi the province of (Puebee, held their puarterly examinations for students enterme the study of pharmacy, in Montreal and (luebee, on Thurstiay, lanuary 7 th, when twentyeeight candudates presented themselves in Montreal and one in Quebec, and of these the following, named in order of merit, passed: $K$. (2. Mcalichael, Roger lanquin, !. K. Hillman, Gilhert Carriere, Donat batanger, I. Whe. Orvilleurs, Christopher Crwick. These will be comtibled to be registered as renified ap. prentices. The following candidates passed upon all subjects bua one, namely. 1. Č. Martel and J. A. langeler, I.amin: IF. (i. Inatons, arminuctic ; tor which suijects they will be reguired to gresent themselves at the April cxamination. The rest of the candidates were refereed back tor furilier study.
The examiners were the Eev. $1 . \therefore$ hbie Verrean, of lacques cartier Dormal School, and lrofessor lsaze (iammell, of the High Schonl, Momreal, whh Mr. J. E. Dulue as supersisor in (buebec.

The next examination will be held on the firss day of April, aNgi.

## Montreal College Students' Dinner.

The gill machine, our emblem dear, 1.a pharmacie forever.
(eus save our pheen, and Heaven blew The pharmacest bereser.
The amatal dimer of the studems of the Montreal Coliege of Pharmacy was held lebruans $5^{\text {th }}$, at the Balmoral Hotel, and proved one of the most successful ever held in the history of the college. The attentiance was large, the decorations tanty, the menn excellent, and the responses to the various toasts thoroughly cajy:uble.

The president, Mr. Achillie (anuvin, occuperd the chair, on has right and leff beins Profs. Reed, and l.ccours, and Messrs. Muir, Chaphain, Morrison, and Williams.
Thepresident made an eloquent speech, alludings to the poud position which Canada held amongst the colonies of Great Britain-its prominent men and its vast resources.
"The Pharmaceuital Association" was proposed by E . Thivierge and responded to by R. W. Willams, of Three Kivers, preident of the association.
"The Montreal College of Pharmacy," proposed ly 1 . I Desrosiers, responcied to by Mr. II. H. Chapman.
"The Professors," proposed by A. Cinopuctic, responded to by lr. Reed and Prof. l.ecours.
© The i:meriean Pharmacemical Association" was responded to by its presidem, I. l:. Morrison, of Monireal.

During the ecemms a very fine programme of vocal and instrmmental music was rendered, the contributors being Messrs. O. Mathen, H. Choquetue, J. Protier, I: Woolley, J. Bte Bisaillon, and ]. A. Goyer.
leetters of regret were read from Sir Wiham Hingston, Jr. Rotoo, l'rofessor Pister, and Prof. Bemrone.
The wathering broke up about 3 a.m. after singing the "Marsellaise" and "God Sove the (!ucen."

## Death of a Well-known Drug Traveller.

It is our painful duty this month to record the sudden death of Mr. R. Galdwell, at Poul's Hinel, Meaford, on the mornung of the $q^{\text {th }}$ mat. The deceased retired on the night of the ard after taking the drive from (wen Sound in good beathe; in fact, he had sold his Owen sound customers that he never felt heater in his hife than lec did on Wednesday, and the heart trovble which had given him am.nety during last year had eniirely disappeared. llut after retiring he awoke ahout + oclock with a recling of sulfiration, but was able to so and arouse a medical man who slep it the hote?, who frllowed Mr. Caldwell to his room, and on arriving there was commencing to treat deceased when the latter complaned of the coldness oi the rom and immed.ately expired.

In the death of $R$. Caldwell the mem-
bers of the druy trade of enstern and northern Ontario misses one of the best known travellers who called upon them to solicit orders.

Commencing travellm, when but a joung man, not quite of age, he was almost continually on the road for twenty five years, and during that time representec Winer © Co., Haswell is Co., Lowden, Inglis s Neil, and funally Euans ※ Sons, for which house he trazelled during the past inclue years.
buring this long career he made num. etous friends and was favorably known over the whole of Ontario, and was fully conversant with the ins and outs of the trade over that section. That be will be missed by all is only too true, and his "advice card" will be wating in the mail of those friends who luoked eagerly for his coming.

His word was his bond, and his business integrity was unquestioned. So that he was looked upon as an example to the younger members of the travelling fraternity in his continuat interest in the welfare of his firm and also of his custon:ers.

The profession at large extend their cordial sympathy to his widow and only daughter, who have been so suddenly bereaved.

Mir. Caldwell was of Scotch parcatage, and came to this country when quite young.

His home was at belleville, where he was buried lecbruary Goh, according to the rites of the Church of England, of which he was one of the wardens at the time of his death.

## Legal.

## Wilson v. Lyman.

This was an action brought by Arch. dale Wihon © Co.. Hamiton, against The I.gman Brohhers is Co. (Iimited), Toronto, for an alleged infringement of patent and trade mark.

The case was tried at Hamiton before Judge kose, january 25 th and $26 t h$. The phamifis contemion was that the defendants were puting up a fly poison paper in the sme style and shape as that of the phaintiff, and ising the word "pad," which they chimed theyalone were entited to use as applied to tly poison paper. They also chamed $\$ 5.000$ damages, and asked that all injunctuon he granted preveating defendants from rontinuing the alleged infringemen. A harge number of witnesses were present on both sides, and a good deal of interest was mamfested by both the wholesale and retail trade. The defence was that the word "pad" is a common word, and could not be mono. polized by any person or persons, also a denial of any infriugements.
J. I. Scolt, of Hamitoon, assisted by S . H. Bliake. Q.C., of Toromo, appeared for the phaintiffs, and Thompson, Henderson \& Beli for the delendants. Judgment was reserved.

## Creamery Butter Color

To retail at 15 c ．and 2 jc ；affording ios per cent．prolit．

Taylor＇s Marking Ink
Sells at 25 c ．，with 100 per cent．profit．

## Sure Death（awn man）

Sells at $15 c$ ．，and pays over 200 per cent．

## 会號会

＇The Best＇Sarsaparilla
A splendid preparation，handsomely put up， sells at $\$ \mathrm{r} .00$ ，with 1.40 per cent．

# Archdale Wilson $\mathbb{\&}$ Co． 

Wholesale Druggists，－－HAMILTON，ONT．


## MONEY For Canadian Drugsists ：



Subscription St． 00 per sear．Sample Copy Free．

MEYER BROTHERS DRUGGIST，
43 CL．ALIE AVENUE．NZ．T．OUIS，MO．，T．B．A．
Atend the d．dh d．Confention at Montreal，dugust 12

Drantront

## "DUNRAVEN" 10 " "F. \& S." be <br> These are both very highterans Cignas. <br> Fraser \& Stirton, <br> Send for Sample Order. LONDON, Ont.

En The Perfect Antiscptic
The ast of healing i, i., kill the Vice, be wathons harin to the systen.
IEADATMIS
MMICREOTEIE
ERTMITATETER
Wa perfect panacea firs tie ill of humanity. The sale of one bovite leads
 in canala. Vour purchave mav le as small an you like, but we want you to hate at in sock. Wiate for prices, sughly of advertising matuer, etc.

WILLIAM ELLIS.
vs Duadne Strect.
Solo Manutacturer for Canada.
London, Ont.

## Pharmacy in England.

Probable Ro-oloction of Prosidont Hills-Tho Manaker of the loditio Convention Gets $\$ 5.009$ -How tho Iodino Ring is Held Tozothor-London Chambor of Commerce-Chenists' Exhibltion of 1897-Aluminlum In Surgleal Instru-monts-The Obllging Druggist and the Dose. (From Our Own Currespondent.)
That Mr. Walter Hills has proved an admirable president and filling successor to the perennial Mr. Carteighe in the ches place at the council of the Pharmacemical Society is admitted on every side. His speeches have been mudels buth in their modesty and brevity, and he has won golden opinions for his painstaking work on the council. There can be little doubt, therefore, that he will be reelected next April, especially as Mr. Carteighe is withdrawing somewhat from London and pending more of his time at bis country residence near Reading. Some curinus developments regarding the Phavmatential fourna! may also be expected about the same time, and it will be interesting to see how the conncil propose to live within their incoase. Fortunately, the rush of the great unquatified still continues, so that examimation fees seem to go on piling up in the societ's exchequer. Another feature about the examinations is the great increase in the number of failures, and this is now found both in the major and minor alike. There can be little doubt that this is manly due to the professors on the board of examiners, who often seem seized with a "plucking" fit, and are rather apt to examine upon their various scemtific su!jects as if the candidate were receiving a degree in the particular science. It cannot be too strongly impressed upon such examiners that pharmacy is a practical science, and that no amount of theory will mak-a practical pharmacist. Medical mer complain that their modern ssstem is turning out men wath the highest diplomas and an abso. lume ignorance of the ar: of prescribing an effective cough mixture. Veterinary surgeons complain that their qualified assist. ants have no knowledge of prosology; and pharmacists assert that the minor man too often is unable to spread a plaster or silser $a$ yill.

When the history of the iodine convention comes to be written is will make in. eeresting readins. Few are aware of the trials through which it has passed or how much is due oo the organ:eing spirits that control the arrangements. Some few years ago I knew a German chemical manufacturer who was outside the convemtion and did uncommonly well. His language agaiast the monopoly was both loud and free, and his reasons for objecting to it were chiefly his own high pranciples. He paid a visit to England and the convention got him, and he is now an insider, and doing better than before. What the members of the convention think of Mr. Rottenburs, the managing director of one of the harge Sentish works, was clearly shown only a limle while ago. Mr. Rottenburg is practically the organ. izing manager of the convention, whose
duty it is to see that all iodine manufac. turers are kept logether, and extermal competitive sources are kept out. In consequence of some iodine filtering on to the market below the convention rates, the orgin of which was stated to be Japanese, Mr. Rottenburg came in for some strictures. But at the next meeting of the convention Mr. David Howard pat matters straight by proposing a gift of $\$ 5,000$ to the genial manager as a ribute to his urgamicing abilhy and a mark of confidence. Not a word was raised against the proposal, and Mr. Rotenburg entertained his generous iriends at a luncheon at the savoy. When later on each member was called upon for $\$ 350$ as his share of the gift, some of themappear. ed m hardly so gracious a humor. But this is some indication of what the conventoon has done for those within its pale in mamaimg an artificially millated market for quite a number of years. It is said that iodine would pay well at 4 cents an ounce: no one can buy it much under is cents.
Quite recently the Scottish Acid and Alkali Company have started manufacturing iodine and iodides, and bave announced that they are outside the conrention. The difference in their favor is only about 5 per cent., so that, so ferr, they have made no great impression on the market or disturbed the serenity of the convention. The fact is that tiae disturbing elemem during the past year or two is mot connected with this or that lirm selling under rates, but the large amount of stock that the conventioners have been foreed to accumulate. It is roughly estimated that this esceeds three or four ycars' supply for the whole world. Nothing would prevent the collapse of the convention to-morrow, in these circum. stances. except the conviction that even if the price was reduced to one-fourth of what it is at present nothing like four times the quantity now sold could be dis posed of at the reduced figure. So that neither producer, asent, wholesater, nor retailer is interested in reducing the price to any material extera.
The London Chamber of Commerce has always been favorably noted for the admirable manner in which its proceed. ings are managed. Without too much ostentation is manayes to produce a solid amount of good work that is highly appreciated by uts members and recognized by tie government. If it is not more powerful to day it is the fault of the jeatousy too often exhibited by members of the same trade that prevents them combinias for their gencral good. The judi. cous system of dividing up the trades into various sections has led to greater interest being taken in matters affecting paticular industries, and rangible results have followed the ventilation of griev. ances. The latest departure is that of inaugurating monthly dimaers, when the members meet together and enjoy conviviality, followed by a discussion on one of the buraing questions of the day. The
second monthly dimer will take place on February and at the Trocadero Restaurant, and Sir Vincent H. Kennett-Barrington, M.A., LL.M., will take the chair. Sir Vincent is the chairman of the South and Central American trade section of the chamber. The subject for discussion is our old friend, "Imperial lederation and Naval Defence." The subject for discus. sion at the March dinner will be "Technical and Commercial Education"

Our junior pharmaceutical journal, T/he British and Colontal Drusist, is already announcing the Chemists" Exhitution of 1897, to take place in August next at Corent Garden theare the unqualified success that attended the exhibition of last year rendered it imperative that a larger place should be secared, and the lessees of the theatre have promised that special decorations and fittings will be made that should render the show even more popular and attractive than the last. Of recent years the old country, that first started exbabitions into popular favor, has seemed to lay behmd, but it is satisfactory $t o$ record that, whilst Boston's pharmacy fair proved a fallure, the London chemists' exhibition has each year grown in site and importance. The enterprise of the jou:nal running the same is widely recognized and receiveng its due reward.

Those chemists who handle any surgical instruments for medical men and murses wall be interested to learn that aluminium is not turning om so satisfactorily as a substitute for stecl in these articles as was generally anticipated. It appears that atthough in appearance there is nothing to be said against the aluminium handles, the peculiar softeess and absorbent nature of the metal is sery detrimental. It seems to exude any race of oil that may have tonched it and shows peculiar spons and marks in a very short time. With antiseptics such as perchioride of mersury it is most unsatisfactory, as it has a tendency to start a sort of miniature aluminium tree srowing on the surface that rubs off and soon renders the goods unsightly. Makers of instruments also say that the practice of oiling surpical instruments with olive oil is not advisable even to preserve them from rust, as owing to the frequent adulteration of the olive oil with other onls experience has show, that it marks the metal. Pure olive oil is unobjectionable, but vaseline answers as well. In these days of nickel-plating, when a very thin coat of nickel is placed upon the steel without any other metal, the instruments are practically untamishable. But it shoukd be borne $m$ mind that it is only possible to put a very thin layer of nickel on, whilit electro-plating can be done to any extent. as it is placed upon a thin lajer of copper.

The following is from a recent issue of the britijh and Culonial Drussist and is distincliy good:

The other day a sweet young thing, composed principally of hair and emotion, entered a chemist's shop in Hull. "Can you give me half an ounce of castor oil in
something that will take the taste amay ?" she inquired. "Certainly, Miss," the druggist assutted her. "Pleose ste down. Very tiring weather," he continued, alter an interval. "Won't you refresh yourself with a saline drink whilst jou're wathing?" By this time, yuite gone on the polite joung man, the damsel drank: the refreshing hequid he offered, and then suggested that if the oll was ready she had better depart. "The oil?" querted the assistant, chuckling loudly. "1Why, you've just taken it." "What!" cried the girl, with sundry unprimathe remanks. "Why, you idio:. I wanted the oil for my little brother. I'm going to a ball tonight."

## Correspondence.

The Fiditur does not hold himself reaponvilite for the upinions of correjpondent-.
Corsegondent must in ill caves aend name and addres. not necencitily tor publication.

Lady Graduates at Montreal College.


Sik,-Amongst the Montreal notes $m$ your last issue I find a paragraph quated from The Cintadiun Pharmacutical /ournall which is not quite correct. This paragraph refers to hady students attending the Montreal College of Pharmacy. The facts are as follows: Miss Sarah $A$. Tyndale of Montreal, the first lady studemt, attended the session of $1: 89$ and 1590 , being also the first lady passing the preliminary examination of the $\mathrm{Ph}, \mathrm{a}$ mreuncal Association of the l'rovince of guebec. Since that time six other young tadies have passed this examination, four of whom are at present in drus stores study ing pharmacy, but have not get taken their lecture coursts, with the exception of Miss A. A. Prevest, of Somel, P'.(., who is now taking the full course of the college. I may say, in this combecton, that ladies are not debarred, ly either the Pharmaceutual Asoriation or the Montreal Coliese of Pharmacy, from taking up the stud; of pharmacy or serveng in a dray store, provided they comply whin the requirements of the Goebee phar. macy det.

Sours muly,
E. Mciz, Sce-Reghatrar.
Montreal, Jan. $=7 \mathrm{th}$, iS97.

## Wholesale Drug and Proprietary Medicine Dealers' Association.

The regular meceing of the assacontion was held in Toronto, January 1 geth and 2oth, with a good attendance of hs members.
The president, Mr. John Henderson, in the chair, and Mr. Wim. Ellot acting as chairman frotem. The greater part of the besiness iransacted was of a routine character. The matter of cheaper atcohol was brought up and a monon adopted to memorialize the government in reference to it.

The president of the Ontanto Societs of Retail 1rugersts was in attendance, and explaned the rearons wheh prompted sending the tecent circular to the wholesale trade.

Considerable diacussion was indulged In generally condemmatory of the tone of the encular, bus matters were satisfactorib) adjusted be the apology of the athor and a promse not to offend any more

Persomally we ate of opinion that if more publictis was given to those pats of the provedings wheh imimately affect trade and therehy acyuant the drug trade generally whth the ohnackes that stand in the way of alwas meeting the views of the retailers, a greater degree of harmony would exist and fewer suspicons would be aroused.

## Commercial Source of Licorice Root.

> By H. N. lirryshot ye.

White the commercial varicties of licorice root are well known to inporters of the article, the qualines, values, and sources of the supply are not so well known to the pharmacist as they should be, if any mportance is to be attacled to accurately dispensins cither the root itself or its preparatoons.

Prevous to the year 1870 the principal source from which the Ented States ob tained its supples was Spain. Smee then the consmmpuon in the U'nited States has increased se much that the Spanish root bas been utterly inatequate to equal the denand. Other commenes inave since then come into the maket, and now furnish the greater part of the maket requirements. There combries are Southern Kussa, dsa Munor (chuefy the province of Anatolia), and Syra, and about in the order above numed as to quannty, Russia beng the largest eqporter and Syria the smatlest. licorice row: from any of the above-n.med sources, when good and sound, should be accopable to the pharmarnt for his usec, hat it is not always grod and sound in a proper sense as found in commerce.
spamuh root is gathered so chosely and skmulity soted and packed that mueh of it combints of fine, manature, fibrous roots, which, while they maty be called lororice root, are practicalls worthess as such for the pupposes for wheh heorice roo: is used,and bevdes are tilty per cent. higher in proce than the other varieties ; yet prejudice and perhaph isnorance on the part of sume busers still demand Spmeli root and Span-h extract. The Spminh roon is sweeter and whe lens acriduy than the other vaicties, and if Spanish root was what it once was in mature condition when found in the market the preference above noted migh: be jusified; but, as it actually is, this prejudree is based on its ancient reputation, and is now unsarranted. The close $a_{\text {esing }}$ and limited and practically exhausted fields of Spain are the causes of this.

Turning now to Kussia, with its new and almost unlimized fields, as yet but lightiy worked (exports from Russia only
began in 1887), we find a mature root, rich in glycyrhizin and extractive, much better suited for commercial purposes becansebetterand cheaper than Spanish root, the sole objection to it being in the taste, which, in addition to the usual sweetness of spanish root, has a slight acridity, which is really not cljectionable, but gives the impression of being "stronger."

Anatolan root ranks between Spanish and Russian in the quality of sweetness (or abrence of biterness). In commerce no attention is patd to the botanical varieties of licorice toot, and from the root alone it is quite impossible to determine its true botanical origin, the usual designations being from the comutries of growth, as Spanish, Russian, Amatolian, etc. ; thuugh all variettes, except Spanish, are often classified as "Greck root," it must be remembered, too, that all licorice root of commerce is wild toot, none being cultivated.

The variety in the market known as "selected" licorice root and put up in small bundes was formerly seeected from Spanish sources, but as demand increased and supply dminshed other varieties having the requisite straightness and thackness were mixed with the Spanish, until ncw "selected root" consists of root from any and all sources if of the proper quality-sthatght, sound-and of the requisite length and thickness.

Peeled Russian root may now be prepared in Russia. I know of no reason Why it should not lee, but Syria formerly prepared "peeled" root for shipment to Europe, some of whicin found its way into the market as "peeled Russian." Any variety might be peeled as well as Russian and be just as good. It would be a satisfacton. however, to have thmes called by their correct names and pay for them accordingls. Peeled "Russian root" has always commanded a good price, doubtrless partly on accomit of the cost of the habor of peeling and carefuldrying; but if so muci esteemed when peeked, why is it not just as much esteer ied unpeeled as Spamsh or any other variety unpected? Besides being much cheaper and richer in glycyrhimin and extractive, for all pracincal purposes it is the best. Interest always attaches to a knowledge of the true sou-ces and varieties of drugs, and is frequently a source of protitas well to the pharmacist.

Batoum is the principal port of export for the Russian root which is gatheredalong the Trans-Caucasian Railroad., unning from Batoum on the Black Sea to Baku on the Caspian Sea. The port of export for Anatolia is Smyrna, while the Spanish root find its way into commerce through the principal seaports of Spain.-American Fournal of Pharmacy.

Thagusin is a preparation obtained from the Tanghinia vencmfera which has been recommended as a substitute for strophanthas. It is soluble (Pharm. Zeir. f. Kuss.) in 100 parts of alcohol, and is readily soluble in ether and alcohol.

## Wampole:

## BEEF, WINE, AND IRON.

In Pint Bottles..... ................ 5500 per doz. Winchester ( $1_{2}$ Imp. Gal.).......... 200 each. Imp. Gallon, in 5 gal. lots, and over 360 per gal.

With handsome lithographed labels. Buyer's name prominenty Printed on same, at the following prices:
:'f Gross lots, and over.......... 56000 per gross. (1'acked in One-1)ozen Cases.)

We use a Dure Sherry Wine in the manufacture of this article, assuring a delicate flavor, and we guarantee the quality to be equal to any in the matet.

We invite comparison with other manufacturers, and will chece fully furnish samples for that purpose.

Your early orders and emquiries solicited through Wholesale Jobbers, or direct from us.

## Henry K. Wampole \& Co.,

Manufacturing Pharmacists, Philadelphia, Pa. Canadian Branch:

38 and 38 Lombard Strect, TORONTO.


LAWRENGE A. WILSON \& CO., MONTREAL
Sole Agents for Canada for
GOLD LACK SEC CHAMPAGNE, OLD EMPIRE RYE WHISKEY boutelleau fils, doctors' special brandy.

## 'LITTLE'S <br> PATENT FLU.ID <br> KNON-POISONOUS: SEEEPDIP AND GATTLE WASH.

For the Destruction of Tioks, Lice, Mange, and all Insects upon Sheep, Horses, Gattle, Pigs, Dogs, etc.

Superior to Carbolic Acid for Ulcers, Wounds, Sores, etc.
Removes Scurf, Roughness, and Irritation of the Skin. making the coat soft. glossy, and healthy.

Removes the unpleasant smell from Dogs and other animals.
"Litte's Sheep Dip and Catte Wash" is wed at the Dominion Eperimental Farms at Othawa and Brandon, at the Ontario Industrial farm, (iwelph, and by all the principal lbeeders in the Dominion; and is prononaced to be the cheapest and most effective remed, on the market.
der 17 Gold, Siluer, and other Prize Medals have been avarded to "Litule's Sheep and Catile Wash" in all parts of the world.

Sola in large Tins at $\$ 1.00$. Is wanted by every Farmer and Breeder in the lominion.

## ROBEBT WIGHTMAN, Oruggist, OWEN SOUND, ONT.

Sole Agent for the Dominion.
To be h d fromall wholesale druggists in Toronto, Hamilton, and London.


## Cheap, Harmless, and Effective

A Highly Concentrated Fluid for Checking and Preventing Contagior from Infectious Diseases.

## NON-POISONOUS AND NON.CORROSIVE.

In a test of Disinfectants, undertaken on behalf of the American Govemment "Litule's Sidulle lhenjle" was proved to be the best Disiniectant, i, eing successfully active at 2 per cent, whist that which ranked second required 7 per cemt, and many lisinfectants, at 30 per cent., proved worthess.
"Liale's Soluble Phenyle" will destroy the infection of all Fevers and all Contagions and Infectious Diseases, and will neutralize any bad curell whatever, not by digating it, but ly destroying it.

Cerd in the Landon and Provincial Inopitals and approved of by the Itighout Sanitary Authorities of the thay.

The Phenyle has been awarded Gold Medals and Diplomas in all parts of the worid.
Sold by all Druggists in 25c. and 50c. Bottles, and Sr.00 Tins.
A 25 c . bottle will make four gallons strongest Disinfectant. Is wanted by every physician, Houselsolder, and Pablic Institution in the Dominion.

## ROBERT WIGHTMAN, Druggist, OWEN SOUNB, ONT.

Sole Agent for the Dominion.
To be had from all Wholesale Druggists in Montreal, Toronto, Hamilton, and London, Ont., and Winnipeg, Man.


Contains no lead ur other substances pmisonom 10 the skin，liut is a delicately pure and delight－ Gully perfumed eomplevion heabilier $\therefore$ ． a toblet powder it has no equal． －－iv bitr wabri－．
White，Cream，Brunette，Flesh．冯出县
ERRNZ JHHV or：mass．w． TORONTO．ONT．

## GILLETT＇S Perfumed Powdered



Is the BEST LYE，and easiest to soll． Handled everywhere by all good Druggists．
GILLETT＇S CHEMICAL WORKS
（Established 1852）
Chicago，Ill．London，Eng．TORONTO，Ont．
H．M．STEVENSON
＂BRILLANT SIGN LETTER＂ PRACTICAL
SIGFIN UCIRTMEMRE
WHITE ENAMEL LETTERS
resmates furnithed on all kind of $\mathbf{A C}$ Adelabile St．


FRANKLIN Cor．IButes and Chrieat siteetn DETRIROTT
－．．．．IIICII． HOUSE

Rutron，S1．70 to 82，00 blar liny． from Wondrard and Joffornondyeanow．Eile． intorServicu，Stentimedct，Filectrlc Jights，Tile Hourn，Etc H．H．JAMES \＆SON，Prop＇rs．

## Change in Name Only

KERRY，WATSON \＆CO．


London Drug Company LONDON，ONT．

Licorice．Bala．
．－Cataluna．
＂Scudder＇s Eureka．
＂．＂Pastilles．
．＂Solazzi．
＂－$\quad$ Caramels．
＂．$Y \& S 4,6,8$ ，and 12.
＂＂In 50 Pieces．
＂．．＂Lozenges．
＂．．＂Pellets．
．＂．．Purity．
．．．．Tubular．
Cough Drops，Black，Brown，and Menthol，in small Bottles and Pails．

Orders will reccive our asmal Attontion．

WE ARE GROWING！ WHO ARE GROWING？

## Saunders \＆Evans

The rapid ancreace in wur busines has necesoitated out remosing to morecromonli，an premines（tir new hashes home a

## 30 Wellington St．East Toronto

Where san be seen the largest，bevt．and chapest stork wif
Sponges and

## Chamois Skins

In Cinada．Our Spongev are purchated for us at the fisheriec，and come direct from Naswn，Florida，Cub，a． Abrace dekline，Exuma，and the farefaned inter of Grecie． Our Chamons are improrted fomp the headyuater for thinurtacie in lingland and the United States．
the secret of out being able to give ungrecedented value in the－lines is our knowing how to buy．The sase in a wutall．Try us，and consince jourseld that our clain Bovinh thict．
 fuines of every varieis，and every grade．In wriginal pachases，undleached．or in eases，bleached．

Levy \＆Co．
Printers

## Druggists＇Labels，

 Supplies，etc．Toronto．Ont．

## THE

Lyman Bros，\＆Co，
TORONTO

|  |  |
| ---: | :--- |
| Arrivals | $\left\{\begin{array}{l}\text { Areca Nuts } \\ \text { Almond Meal } \\ \text { Bromine } \\ \text { Cardamon Seeds } \\ \text { Lupulin } \\ \text { Liq．Albolene } \\ \text { Oil Aniseed } \\ \text { Oil Cinnamon } \\ \text { Santonine } \\ \text { Acid Tartaric } \\ \text { Antipyrine } \\ \text { Formaline } \\ \text { Gum Asafœtida } \\ \text { Liq．Styrax }\end{array}\right.$ |
| Oil Savin |  |
| Oil Cubebs |  |
| Oil Sassafras |  |
| Strychnia |  |

Made of oak and glass，with wire helves，three different styles．


Stuart＇s Dyspepsia Tablets Booth＇s Hyomei
Dunn＇s Malted Rusk Food
Dunn＇s Barley Food
Dunn＇s Cream and Corn
Zeno＇s Highiand Heather， 8 oz ．
Roger and Gallet＇s Perfumes and
Toilet Articles
Baldwin＇s Sachet Powders and Perfumes

Shaving Mugs，Manicure Sets
Chamois Skins，Sponges
Sick Feeders


## WIRATE FORE RUOTATHONS



The LYMAN BRCS．\＆CO．LTD．
Wholesale Druggists
TORONTO，ONT．

## Trade Notes.

Parker Bros., druggists, St. John, N.B.B., have made an assignment.

Hatton \& Dowsley are opemme a new store at Owen Sound, Ont.
S. Oldham has purchased the drug business of W. M. Scott, Bradiord, Ont.
W. H. Love has closed his drug store at 752 Broadview avenue, Toronto, Ont.
S. l'errin, formerly in the drug business in Lindsay, Ont., is again opening there.
H. Cowan has purchased the drug business of Dr. Brunskill, of Mount Forest, Ont.
Geo. A. Dale has closed his drug store. corner of Shuter and George streets, Toronto, Ont.
J. B. Brown's drus stuck, Shelburne, Ont., was damaged by removal at fire, January 26 h .
A. Davidson has purchased the branch drug store of W. H. Chapman, Westmount, Montreal.

The drug stock of A. D. Brander, Wallaceburg, Ont., was damaged by water during a fire on January $1=$ tio.
W. J. Costigan, president of the Hol. gate, Dielding Co., of this city, spent a day or two in Toronto last week.

The drug store of R. J. Whaley, Delta, Ont., was destroyed by fire, January 27 th. Loss about $\$ 3,000$; insurance, 2,000 .
D. W. Bole, of the wholesale drug firm of Martin, Bole, Wyane \& Co., has been elected president of the Winnipeg Board of Trade.

Mr. Joseph Contant, druggist, of Notre Dame street, Montreal, has been re elected president of the Chamber of Commerce of that city.

The drug store of F.S. Grimshaw, Stayner, Ont., was destroyed by fire January 2211 . loss about $\$ 2,000$; insurance, $\$ 1,400$
C. Tupper Foster and Willam $T$. loster have registered a co-parthership under the name of Foster Bros., druggists, Antigonish, N.S.
I. Christan, formerly chly traveller for the Montreal house of Evans \& Sons, will take the route formenly covered by the late $R$. Caluwell for that firm.

Simson Bros. \& Co., wholesale drug. gists, Halifax, N.S., have dissulved partnership. Mr. F. C. Simson will cominue the business under the same name as formerly.

The drug stock of W. J. Douglass, Collingwood, Ont., was destroyed by fire Jamuary 27 th. BIr. Douglass intends opening again as soon as the premises are ready.

The name of the London, Ont., branch of Kerry, Watson \& Co., formerly known as the "London Drug Co.," is now Kerry, Watson \& Co., the same as the parent house.
A. E. Hughes, druggist, of New York city, and brother of Lieutenant-Colonel Hughes, of the Montreal police, died recenlly in New York. His remains were takes to Montreal for interment.

At the recent election of officers of the Montreal Board of Trade, Mr. David Watson, of Kerry, Watson \& Co., was reelected a director, and Mr. Henry Miles, of Leeming, Miles \& Co., treasurer.
R. W. Chambers, formerly of Blenheim, Ont., and his brother, A. Chambers, O.C.P., class '95, and recently with E. G. Iemaitre, Queen street west, Toromo, have purchased the drug business of T . G. Ryley, Oshawa, Ont.

The wholesale drug firm of Kerry, Watson \& Co., Montreal, having been dissolved by the death of the senior partner, Mr. John Kerty, the business will hereafter be carried on under the same firm name by David Watson and W. S. Kerry.

## Montreal Notes.

It is said that arrangements are to be made to establish a new drug journal in Montreal. Druggists, as a rule, get bald about their fortieth year. If any more drug journals start in Canada, baldness will commence at twenty-îve.
The l'abst Malt Extract people are evidently intent on booming therr preparauon in Montreal. Druggists generally have been obliged to stock it. It is being well advertised here.
Mr. Henry Miles, of the firm of Leeming, Miles \& Co., was unanimously elected ireasurer of the Board of Trade last week. Mr. D. Watson was elected member of Council. This makes two druggists who are now officers of this important body.

Mr. Patterson, who lately represented Lyman, Sons \& Co. as town traveller in Miontreal, has gone on the lowe: ports trip) for that firm. His quiet, unassuming made him a great favorite among the pharmacists in town. Mr. Duggan replaces him.
A young medical man of this city, who has given a good deal of attention to chemical science, clains to have made a discovery of great importance with regard to the manufacture and burning of acet $\%$ lene gas. The lamp shown by him is a model of simplicity, and when in use gives out a beauiful white light. The safety question must be settled before there will be much enthusiasm for acetylene gas.
The writer of these lines has always been more or less in favor of the United States Pharmacopoia for Canada, and he is glad to see that at least one pharmaceutical jourmal shares has views.

A large number of prescriptions written in the States must necessarily be dis. pensed in Toronto daily, judging by the number continually presented at the dispensing counters in Montreal. English
prescriptions, however, are few and far between.
Mr. Albert Nelsun's stock and fixtures are advertised for sale by tender at so much on the dollar. It would be a pity to see this old stand closed, there being a good business attached to it. There is much sympathy fell for Mr. Nelson.
The pharmacy students' dinner took place last evening at the malmoral hotel. Mr. Gauvin presided, and at the guests' table were noticed Professors Reed, Bemrose, Pfister, Lecour, and Morrison, as also Mr. Muir, the registrar of the Pharmeceutical Association. The feature of the evening was the choice selection of songs given by members of the society. The menu was first-class, and everyone enjoyed themselves to their hearts' content.

Although general business continues dull, there has been, nevertheless, quite an increase in the dispensing department, probably owing to the prevalence of measles, whooping cough, and other children's diseases.

## Princo Edward Island Notes.

Mr. John T. Robison, druggist, of Montague, P.E.I., died there, Jamuary $28 t h$, in the 3 Sth year of his age. He entered the drug business first in the Apo. thecaries' Hall, Charlottetown, and after living some time in Charleston, Mass., he opened the Montague drug store. The interment was with Masonic honors in Chariottetown.

Mr. Fred. Millar, late of the Medical Hall, Charlotterown, has abandoned the drug busmess for the present and has gone to Halifas to undergo medical treatment.

The drug clerks of Charlottetown have been agitating for early closing during the winter months, but unsuccess. fully, as one druggist refused to comply with their request. The movement elicited public favor, until the clerks wrote or inspired some anonymous letters in the newspapers which settled the question for this season at least.

## Drug Clerks Organize.

The first regular meeting of the under graduate drug clerks of Toronto was held Feb. gth, with a very large and enthusias. tic meeting. The objects of the association were presented by Messrs. G. A. Ross, 13. Tobin, Valter Spinks, and J. langdon. It was unanimously decided to form the association. The officers siected were: Honorary president, Mr. W. J. Dyas, of Tue Casadian Druggist; honorary vice-president, Mr. B. Tobin; president, Mr. Watter Spinks; secretary, Mr. G. A. Ross; treasurer, H. Yarnoulds; Executive Committee: G. E. Gilbon (chairman), J. Langdon, D. Garrow, H. Young, MIr. Forrest, J. English.

## Jumping Beans.

M. Yeatman Woolf, writing to the Pall - MallGazitl; says he has had experiments in band with the so-called "jump. mg beaths" for the last two years, and he finds that the apparent leaps are an ithesion due to the eccentric shape of the beans, and the character of certain of the complicated movements thereby rendered "possible. In suppart of his contention he memions that, after carefully removing the woody fibre of some beans so as to leave intact the silken bags containing the live maggots, the beans, despite the decrease of weight, although they still continued to move, did not appear to lifi themselves at all from the sheet of black ened glass upon which they lay. He clams to have been able to thoroughly - clear up the cause of the motive power by keeping many maggots in artificial was houses with windows mserted. When the grub has covered up an aperture with its silk it afterwards darkens the same with juices formed out of the excreta, until it assumes a brownish color. In one instance a bean was found to contain a parasne (ichneumon) tucked up alongside the coconn, but dead. From the fact of the interior of the bean having a silk lining smmar to all those containing mag. -.gots and from the excreta, it is presumed that the ichneumon parasite had eaten the . caterpillar.-Phar. Jour. (Eng.).

## An Esteemed Journal.

Cinder the above heading the Cultionletr, the paper of which the Hon. Mr. Tarte is editor, publishes the following nem: "The year that is now drawing near to a close will remain a red-letter date in the annals of the Montreal IFit. mos, as being the one in which the fiftieth anniversary of its foundation occurred. Since the month of December last the H"thess did not pass a single week without devoting at least one page every Saturday to the celebration of its jubilec year, and the beauty of it is that the subb. soribers themselves have, in every case, furnished the elements for that weekly page. The historical or literary comribu. tions of those occasional contributors were so much the more interesting that, for the most part, they referred to erents contemporancous with the foundation of the paper. If the public found a real intellectual treat in that original publication, the frituess itsclf must have found in the feeling which inspired it and nurtured it every week a very sweet consolaton, that of knowing that it has the love of its readers, a love such as yet no other Canadian jourmal has been able to secure. That fact, now established beyond all doubt, is the greatest success which our worthy English confrìre could have dreamed of fifty jears ago for its golden wedding of $1896 . "$
Acerocaustis: is, according to the maker, a concentrated ( 50 per cent.) solution of trichloracetic acid.

## Ontario College of Pharmacy

## Semi-Annual Meeting.

The regular sem-annual meetung of the council of the Ontario College of Pharmacy opened in the board room of the college building, (ierrard street, Toronto, on the afternoon of Tuesday, February 2nd, 1S97. President J. H. Alackenar, Toronts, occupied the char ; the other members present at roll call bemg Mersts. C. D. Daniel, John Mckec, N. A. Kam, 1. H. Maclaren, 1. F. Roberts, S. Snder, I. H. Dickey, H. Watters, A. Turner, and (; IV. Spack man. The only absentees were Messts. R. 1). Scolt and H. Dass, who wrote, apologizing for their absence.
Upon motion the minutes, as printed, were taken as rad.

A large batch of correspondence was submitied by the registrar, the majority of the letters baving reference to students and apprentices, and none having any special general interest. These were re-- ferred to the proper standing committees.

Upon motion a resolution was adopted appointing the president, with Messis. Watters, Snyder, Spackman, and Dickey, a commitice to prepare a report upon the matter of duty upon alcohol, and submit the same at the present session of council. Upon motion Messrs. W. A. Karn and $L$. $T$. Lawrence were appointed representatives from the comncil upon the board of the Western i'air Association.
Mr. Henry Wathers ieported respecting the Montreal meetung of the American Pharmaceutical Association last fall, at which meeting he was the aceredited representative of the council. Full reports of the proceedings were published in these columns at the time of the convention.

The registrar-treasurer's report was sub. mitted by Mr. I.ewis. It stated that during the half year wentyone M. D.'s had taken out registration, and iso apprentices had appliod for registration. The renewals had totalled $16 S$.

The receips had amounted to $\$ 14.0$ 926.47, in which the principal tems were as follows: Renewal iece, $\$ 6_{52}$ : appren. uces' fees, $\$ 128$ : M. 1)'s fees, $\$ 84$ : pou son and license hooks, $\$ 27.15$; matriculation fees, $\$ 200$; deposit fe.s, $\$ 55^{\circ}$; teaching fees, $\$ 10,2.43$.tit : laboratory accoumt, ${ }_{5} S_{3} \mathrm{~S}$.

On the other side of the account the principal items were: Interest account, \$264.98; current expenses, $\$ 290.22$; furniture, $\$ 47.91$; council mecting, $\$ 70.05$; apparatus, $\$ 7 \$ .24$; examiners' fees, $\$ 277$.- $^{-}$ 03 ; salaries, $\$ 3,0.49 .40$; supplies, $\$ 50.49$; paid synod. $\$ 1,000$; coal, water, and gas, $\$ 34.54$; law expenses, $\$ 275$; Infringement Committe's account, less fines, $\$ 27945$; and the cash balance in hand was $\$ 8,855.16$.
The report was referred to the Executive and Finance Committee; and the comeil adjourned to allow committee work to be proceeded with.

## wednesday's session.

At the morning session on Wednesday a mumber of commumications were read and referred in due course, and the council adjourned, as none of the committees were ready to report.

At the opening of the afternoon session two notices of motion were given as follows:

By Mr. C. D). Daniel: "That we purioose at the next council meeting moving that Hy law No. 12 , section 4 , be amended by extending the tin: for applications of apprenticeship registration."

13y Mr. Roberts: "lohat un view of the fact that the finances of the college are $n$ such a prosperous condition, and that by the end of next year it is expected its mortgage : debtedness will be provided for, a rebate of three dollars be allowed those chemists who pay their annual fee before the first day of May in each year."

Report number one of the Executive and Fimance Comm:ttee was then submit. ted. After recommending the payment of accounts amouming :o $\$ 895.32$, the report said: "It is with pleasure that your committee call your attention to the very creditable state of the finances of the college, as shown in the anditor's report. The mortgage mdebtedness is now reduced to $\$ 10,000$, and there is on specia? deposit in the Bank of Comnerce $\$ 2687.19$, and a balance on ordinary deposit in the bank of $\$ 6,134.87$.

Of the latter sum your committee would recommend that the sum of $\$ 2,500$ he withdrawn from the general deposit iccount and placed in the special deposit account in the savings' bank deparment of the bank in addition to the sum atread, there (as stated above) depositect, and that the president and registrar-tiens. urer pay the amount of $\$ 1,000$ to the bolders of the: mongage on the college on May 3oth, 1897.

On the prayment of the above sun: the mortgage indeltedness of the college will be reduced to $\$ 9,000$, against which there will be on spectal deposit in the savings' bank owr $\$ 4.000$, making the real indelatedness of tiae college a litule less than $\$ 5,000$.

Your committee would recommend thit the registrar send out p-inted postal card, as last year. 10 each member of the college on or about April ist, relating to the payment of the annual fee and the rehate thereon, upon prompt payment, on or before the first day of May.

With reference to the report of the John Roberts Scholarship Fund, your committee regret that, owing to the terms of the bequest, they are unable to recommend any changes or alterations in the management. Your committee feel that a better disposition of the amount of the scholarship could be made for the winner of the scholarship, and at the same time not interfering with its stability and permanency.

The report was adopted.

## The Toronto Pharmacal Co., Ltd.

TERMS. Thint days $s$ per cent. Special quotations for contrace orders.
Droprictary ano Holl-wecret Remecicg.
didams' Gingor reeo.
Adame joot Bear, 2 bizes. Castorol, for Cuhdront. Colery Court Wafors. Celorit Sulditz, 2 elzes. corallnu Craai Dondifice. Coughevaro (Lozonges). Dalsy Buking Powder.
Duter Color, 2 sizes. Daisy
Dalsy
neckazo Dyes.
Bizes. David's Coush Balsam. Doan's Curo.
Dean's Curo pills.
Dr. Goodu's Fomato Pills.
Kngy-Hroathlyg Asthma 160.
Electrio Polishor.
Ellto hair Dge.
Filto Shampoo Yowder.
E.mil Shampoo lowder, Antiseutic Throat Lozenges (provent. tvo remedy for diputheria)
Exernct Beet, with Depsin.
Halianzons's:
Antibillous Mixture.
Diarrincua Mixture.
Gargle.
Garble.
lite.
Woris Powsers.
Home Imenlith:
Arnicated Witch Hiazol.
Boot, ron, and Wine.
Burdock and Earsaparilla,
2 sizes.
Catarric Curo
Catarrh Snuf
Collery Norvo Tonic, 2 sizos.
Colory wine. whito pino.
Cough Syrup Whito Pino.
Covgh Drops.
Ditinfectaut.

Dyapopsia lemody Emulsion Cod Lver On, a sizes. Fluh Magnesia. Headacho Powdors. Horb Trea, suizes. Infmes Soothing syrup. Kidnoy Cure. pills.
kidney-hwer athos.
Ojumsult
Pain Relior.
Perroletur Jolly,
pilo Remedy. Quinine Wino.
Eed Tonic pllis. Red root Beer.
Sea liat. Sal
Snanll Livar lifls, 2 sizos. Swect Castor Oii.
Syrup Hypophospistes. Syrup Wurt Pite and jtalt Teoting Powdors.
Worm Syrup.
Jol's paln-Ease or Comfort. ing Oil.
Magic Toothachu Drops.
Mattol (Trommer's Eitract
sfalt with Cod Liver oil)
atentholene for cold in the
hoad, catarrh. Urouchitis,
soted corn Salve.
Qustic Corn sal
Qunuco crian (Wine (Celcy, co hosh, and Colehicunin).
Scat Rat Poison.
Soloct Oil.
Seven Champions.
Soap lowder, for woollens.
Witch Hazel Croam.
Witch Hazol Jell.
White rino Congh Drojs.

## WHOLESALE LIST

hist with prices atached will le mailed on application.

## IMPORT

OUR NEW LINE OF

## 

Allightor Shoo Droosfug. Marbar's Faco Dall. Bay itum, $i$ oz. bothes. Beeswex, nicycuo 011.
Bird suen. Bird Treat.
Bhacking Day A Martin. Bluo Ointinant. Mrarax, ha package.
Britisi Oil British Oil.
Carbolic Foap. Castar Oil, botilos. Colery Salt. Chenins Gum clondyox Slotlod A , monia. cod Liver Oil. colopne.
Cubeb Cigaretter. Curry Powder. Cutto Fi-hisonc.
Dallys: Carminative. Lalaistian lonect Powdor. Epsom Salts, in packar-s Erasive Soap. Essunce of hemaet. Extracte, Flavorin
Florida Wator.
Fly Payer.
Fuller's Earth
Gino
Gingor

## Gilcerita

Giscorine, in butties.
Glycarino and logewntor. Gacarble, Rosowator, and Godroy's Corüi
Hoir Oils, assorted.

Hilis Isaisam Monoy Holdfrat Machage. anmona Indoliblo Ink. Inka, Day Nitartin.
Lavender Wator. heathor and Haruoss Drosslug.
Loathor Coment.
Lomon Extrach
Lame Julce.
Magic Cleansing lowdor. Oil, Spike.
Opodeldoc.
Opodeldoc.
pharezoric.
Popjormint Essonco.
porrame:
P'meapllo Extract.
Rubbor Come.
Rubbor Coment.
Salts. Lemon.
Soudity Porrdors.
Soning Machino oin.
Sonus.
Spiritg :itre.
Spirita IT rruentiue.
Sweut Castor Oil in j3uls.
Sweot Oil.
Syruy Squille.
Tatcum Yowder, for Infants.
Thact lodine.
Turlington's Dalsam.
Vanilta Ex'ract.
Violut powder. package and bulk
Walaut Shno Dressing.
Voulf 's Cholora Metnedy.
Wintergreen Tooth lowdor
Worm liozouges.

Ucterinary. Misterityg Ointumont. Condition Powdors. Farmers Eriend (hoallng all).
fioave liemedy: IForso and Cactio Salts. Koulody for Scratchos. Spinva Curo.
pbarmacenticats.

## Ach Phosphates. pistilled Extre

 Hazel. Elixirs.Eissenco popsine.
Lid. Ammons. Acatat Fort
hia. Abmpon Citratis.
Lid. Mismuth ot Ammon, elt Lif Epispasticus.
Lic. Furr Porchior. cit. Licg. Bille.
Lit. SilluCo.
Itc. Tolu for Syrup.
Syr. Ferri l'hos. Co (l'arrish)
Syr. Ifyariodic Acid.
Syr. Hypmphob. Co. 9yr. Scille. dyr. Scillue Co.
Syr.
Sjr. Trip. Phos. (Faston). Syr. Wild Cherry.

Egeluts for
Binir's Gout and Thoumatic Clesvor
Cleavor's Fuglish Soaps. Cuutt's Acotncura.
Noavo's Food, for infants. Odorettes (porparb).
odoroma, tho porfect Toot Powier.

## SAMPLES

Gents' Leather Travelling Cases

## Atomizers and Cut Glass Peifumers

Fine Manicure Sets

## Bronze Novelties

The latest productions, personally selected.
Direct from the manufacturers in Europe.

| IMMENSE VARIETY. |  | BUY NOW IF YOU WANT |
| :---: | :---: | :---: |
| CLOSE PRICES. | \% | TO SAVE MONEY. |

NERLICH \& CO., - - Toronto.

# LEGAL WARNING 

## PHENACETINE TRADE MARK LITIGATION.

in the high court of justice.
FARBENFABRIKEN vormals FRIEDR. BAYER \& CO. vs.
A. Y. SCOT ${ }^{-1}$ and D. MacMILLAN, trading under the firm name of SCOTT \& Macmillan.

In the High Court of Justice we obtained a decree enjoining the defendants, Messrs. Scott \& MacMillan, perpetually

From selling Phenacetine under that name.
These court proceedings sustain all our claims arising from the rightful ownership of the trade mark " Phenacetine" in the Dominion of Canada.

We have the exclusive right to sell Phenacetine, which is registered under the Trade Mark and Design Act, on December $4 \mathrm{th}, 1888$, at Ottawa, and we only are entitled to make use of that trade mark.

The Dominion Dyewood \& Chemical Co., Toronto, are our sole agents in Canada.

We caution everyone against selling Phenacetine under that name which is not manufactured by the Farbenfabriken, and we shall prosecute, under 49 Vict., Chap. 63 , Sec. 17, all parties infringing the said trade mark.

In view of numerous substitutions of Phenacetine, for which Acetanilid and all kinds of impure preparations are sold by unscrupulous infringers, it is of the greatest importance to the drug trade to handle exclusively Phenacetine supplied by us.

> FARBENFABRIKEN vorms FRIEDR. BAYER \& CO. DOMINION DYEWOOD \& CHEMICAL CO.
> (wHor.esare onsy.)

Toronto: February, 1897.

The report of the Committee on By. laws and Legislation was presented by Mr. Henry Wratters. it dealt entirely whi individual applications and graming of certificates.
In speaking to the report, Mr. Watters referred to an application from a graduate of the college reseding in St. Johm, N.B., for a diploma. According to the pharmacy law of the province, diplomas can be given only to those graduates who bave served the required period of apprenticeship with an Ontario chemint, and, accordingly, the applicatton of the graduate in St. John could not be gianted. Mr. Watters expressed the opinion that it would be in the interests of the college if the law wete so cianged as to allow the conferring of diphomas on graduates who had served their apprenticeship with duly recognized chemists and druggists anywhere. The sugges. tion was regarded by the members with approval.
The report was adopted, and the council adjourned until ten oclock on Thurs. day morning.

## THURsD.a's mushiens.

Thursday morning was dee:ed to committee work, and when the cuncil convened after hanch the registra: read ? communiration from the Pharmatentical Journai offering to pubhsh the ollicial minute in full in the fotronal at a fixed figure. The matter was referred to the Fimance Committe to report on.
Mr. G. E. Gibbard, president of the Retail Druggists' Assuciation, addressed the council in the interests of the associntion. He complained of apathy on the part of the members, and declared that a more acture and practical symputhy must be shown hy the drug_ists as a body if the association was to succeed in the work it had in hand. He arked that the member; of the council would interest themselves individually in their respective doterets in advocasing the clams of the society.

Mr. Watters asked for more definite information as to the work of the association, so that they could speak thereon intelligently.

Mr. Gibbard replied that the work was extensive and hard to panticularize. He might point out, though, that in some therty-five districts price cotthe had been stopped by their efforts; in uthers it had been prevented, and in only one or two had it been started since they began operations. But for the work of the association he believed all of Western Ontario would to day be suffering from very widespread and ruinous price canting.

Mr. W. A. Karn cordially endorsed what Mr. Gibbard had said, and declared that in his district much good had resulted from the work. The great thing now was to get the support and co-operation of the manufacturers and wholesalers, and in three months all cutting would be put an end to.

Mr. Roberts endorsed the previous
speaker, after which an emphatic resolu. tion of sympathy with and confidence in tia association was unanimously adopted or the motion of Messrs. Karn and Spackman.

Mr. Ruberts then moved his resolution, of which notice hed been given the prevous day, to grant a rebate of $\$ 3$ to all members of the college paying their fees Wy May ist. Messrs. Karn, Watters, and Janiels approved of the proposal in the abitract, but thought it betier to defer action until the mortgage debt was paid off. Mr. Watters added that he deemed It unwise to adrocate such a change on the eve of an election. Mr. McKec suggested that if the council had money to spare it might be devoted to the work of the lafringemem Committee linally the matter was referred to the limance Committee to report upors.

The report of the Committee on Education was presented by Mr. Daniel. It dealt whit the renewal of the contracts with the members of the faculty, and proposed that the staff be reengreded at the following salarics: Prof. Hecbner, $\$ 1,900$, and $\$ 300$ additional for his services as deall: Prof. Scolt, $\$ 1,000$; Prof. Chambers, $\$ 1,000$; and l'rof. Fotheringham, $\$ 900$. This was an advance of $\$ 200$ for Prof. Heelner, $\$ 150$ for Dr. Chambers, and a reduction ol $\$ 200$ in Prof. Scott's stpend, leaving Dr. lotheringham as before. Ir. Danet explaned that the readjustment was based $u_{2}$ on the number of hours each professar gave to the work of the college, and pointed out that the proposed eduction in Dr. Scott's salary was on account of the fact that he had oryinally recetived $\$ 200$ additional for assisting in the duties of the dean's office when l'rof. Heether had first come to the college, and that after the latter sentleman thad taken full control the added amoum had never been deducted.

The council went into committee of the whole $t_{0}$ comsider the report, when Mr. Wattens moved mamendment that the figures le: Prof. Heebner, \$2,000, as now ; Prol. Scote, $\$ 1,100$; Prol. Chambers, $\$ 1,000$; and Prof. Fotheringham, $\$ 900$.

A tenglby discussion followed, in which every nember of the council who took part spoke in the bighest terms of the members of the staff, their ablity as lecturers and demonstrators, and their devotion to the interests of the college. Sume diversity of opinion was shown as to the relative importance of the work of the lectures as compared with that of the demonstrators; Mr. Damiel contending that the latter was as important and valuable as the former, but President Mackenzie upheld the opposite view, and urged that consequently no change from the existing salaries was necessary. He movad in amendment to the abiendment that the stipends remain as hithetto with the exception of Dr. Scott's, which he proposed to have reduced to $\$ 1,100$, and Dr. Chambers' raised to $\$ 950$. Mr. Daniel made another ener-
getic appeal for the adoption of his report, in the course of which he remarked that be thought it was a downright shame to pay a man what be didn't earn, or not to pay him what he did earn.

After still further discussion Mr. Mackenaie withdrew his amendment and Mr. Watters carried his by a vote of six to three, the clause being adopted as ammend ed on the same division. The balance of the commitlee's report was unimportant, and was carried wihout debate. Upon the council resuming and the report being presented for final action, Mr. Watters moved its adoption as amended. Mr. Daniel, in amendment, moved that the dean's salary be increased to $\$ 2,100$, viz., $\$ 1,800$ as prolessor and $\$ 300$ as dean. This was negatived with very little discussion on Messrs. Danel and Dickey supporting it, and the report as amended was finally adopted, after which the counsil adjourned for the day.

## the last day.

On Friday morning, after preliminaries had been disposed of, the Committee on Education presented report No. 2, which approved of tie proposal from the examming board to raise the standard of matriculation and to institute a two years' course; it also recommended various changes and repairs round the college buildingi, among other things the construction of a bicycle stable, and the report was approved.
The chaiman of the Infringement Committee, Mr. W. A. Karn, then presented an important and interesting report. It stated that during the past six months every effurt had been made to enfurce the law and prevent or punish infractions thereof. Some ihree hundred cases had been dealt with all over the province, except just around Kingston and in the vicinity of Thessalon. Where warnings had not been sufficient cases had been carried into court, and, in all, mineteen convictions had been secured, with fines amounting to $\$ 3 \mathrm{So}$, of which $\$ 350$ had actually been paid. The convictions were as follows:

## A. C. Hastings, Toronto.

Reuben A. Mason, Markham.
E. C. Radley, Chatham.

Frank Shepard, Mount Brydges.
Rubert Tutte, Toronto.
Walter Spinks, Toronto.
Fred Krug, Tavistock.
W. J. Crawford. Ripley.

John Walker, Tiverton.
Irwin Groh, Shallow Lake.
J. A. Courtice, Havelock.
E. B. Miller, Chatham.
J. W. Fish, Oterville.
R. E. Moore, Lion's Head.

Barrow B.ay Lumber Co., Barrow Bay.
E. C. Wicher, Wiarton.
T. W. Andrews, Otterville.
W. W. Porte, Brighton.
L. P. Clement, Woodstock.

In every case a fine of $\$ 20$ and costs was imposed. In addition to the revenue
from tines, the agent employed by the commitee had collected a large number of fees, the arrearakes paid up in this way which would otherwise have been lost to the socety amountung to $\$ 371$, which, added to the $\$ 350$ from innes, gave a total of $\$ 721$, against wheh there was an expendture of $\$ 629$. So that the work done had cost nothing; but had netted a cash surplus of $\$ 9^{2}$.

A matier of some interest was referred to in the following patagraph:
"Your commitice beg also to call your attenton to the large number of suiedes that are reported in the press from day to ciny, many of whech resule irom the careless sale of laris green now existug, the sale of whech, 11 vew of these facts, we submit, should be under the same restricnons as other dangerous poisons.

A paragraph relerring to the Simpson case stated that the committee had endeavored to carry out the instructions of the council, but so far without much suc. cess, owing to the teclmicaltites which had been raied by the defence. The matter was still sub gudicr, howeser, and would come up on appeal at the approach. ing sessions.
In presentung this report Mr. Karn ex. pressed his beltef that the druy trade was in better condition thanever before, largely owing to the persstent work of the com mittee. Touching on the Simpson case he observed that the charge had been made in the press that the college was gulte of petty persecution in keepung up the fight after the courts had gone against them. This he emphatically denied, and pointed out that the courts bad not gone against them as had been represented. The courts had decided that Robert Simpson, as an individual, could not sell drugs, but it allowed The Robert Simpson Co. to do so, making a distinction without any practical difiference as far as the interests of the public were concerned. It was to endeavor to get the latter decision reversed and made to conform with the prevous judgment that the appeal was now being taken. In conclusion, Mr. Karn declared that the committee was proud of its work, and trusted that the cumen "as satisfied with what had been dunc.

Mr. Witers secmadal the mution th, adopt the report, and in doing so cenpressed much gratication on behalf of the druggists at the work accomphished. such a report was a complete answer to the of retiterated question from retailers, "What does the college do for us?"
The report was adopted.
Mr. Maclaten presented report No. 2 of the Executwe and Finance Committec. It recommended that accounts amounting to $\$ 1 \$_{3}$.1t be paid; that with reference to the offer of the Pharmatea. tial /ournal the present arrangement for publishing the minutes was satisfactory, and no charge was advisable; that Mr. Roberts' proposal to offer a rebate of $\$ 3$ for prompt payment of amnual fees be laid over; that the president and registrar be
authonzed to rearrange the mortgage debt; and that no assistant be engaged at the present time.

Upon the last clause Mr. Daniel urged that the time was opportune to appoint a graduate of the college as assistant to the professors. The graduates had not received anj encouragement in the past, and there wete any number of good and capable men ready and able to take up, the work, and these deserved recognition.

Mr. Maclaren endorsed all that Mr. llaniel sad about their graduate, but added that the committe had not been able to see the necessity of ally addition to the staff just now. So long as the faculty gave the eazellem and capable service now being rendered, he could not support any proposal to make a change. When a change became necessary from any cause he would strongly support the chams of their own graduates.

Mr. Mackenzie wanted some definite suggestions as to what work the proposed assintant would do. They must be very careful in making such an appontment that nof frictoon was caused among the present members of the faculty.

Fimally, the clause was referred back to allow of a report from a special committe appointed to deal with the same question sis months before. On motion, Mr. Spackman was added to that committee in place of Mr. Scott, who was absent from the present meeting.

Upon motion, the registrar was ordered to prepare and publish 2,000 announcements as heretofore.

Upon mo:ion, the registrar was instructed to prepare and publish the minutes of the present sessinn as usual.

Mr. Watters moved for the reconsideration of report No. 2 of the Education Committee, as he had gathered fuller information upon the salary question. The motion secured the necessary wo thinds vote and the report was ordered to be referred back to the committee for reconsideration, after which the council adjourned for lunci.

Cpon reassemblang, Mr. Watters presented the followng report from the spechal committec on the appomment of as bistants "I vum cumantiee would sespect folly repurt that the base bot sufficient information in their possession to warrant them in recummending the appomtment of assistants at the present time."

Afier another emphatic protest from Mr. Daniel the report was adopted without further discussion.

The special committee appointed to deal with the matter of sectring a reduction on the duty on alcohol recommended that the president be requested to procure all available data upon the subject: that petitions be drawn up to the Dominion Government and circulated for signature throughout the several electoral districts. The report was adopted.

The Committee on By-Laws and Legis. letion presented a brief report, which con-
tained nothing of interest and which was adopred ncom. wh.
The Committee on biducaton reported back in reference to salaries of the facults: tecommeming no change in the repr $n$ as prevously adopted.
:Ir. Walters moved in amendment that Dr Scoll's stipend be :aived to $\$ 1,200$, the old figme. Mr. Damicl oljected that at that rate I)r. Scolt would get $\$ 6$ a lecture, and 1)r. Fotheringham only recesced about $\$ 395$. He clamed that the demonstrator was as important and valuabie as the lecturer and both should be pard on the same basts.

Mr. Watters tephed that payment on the basis of hours had never been recogmezed. The subjet ts laught varied in in portance, and this fact most have effect in fixing amoment of remmeration.

After some further discussion the amendment was lost, Messrs. Watters, Snyder, McKec, and Maclaren supporting it, and the report was adopied on the same vote.
A supplememal report was put in by the Education Commatte, recommending that a book lee kept in which the proPessors register ench lecture as delivered. The report was approved.
In accordance with by law + , the registrar was instructed to issue a circular notifyng the members of the college that the elections would come on in July.
This being the last meeting of the present council, VIr. Watters moved a vole of thanks to the president for the mpartal manner in wi, ith he had filled the chair, and for his able administration of the affairs of the college duning the two years of his incumbency. Mr. Nekee seconded, and the motion was adopted with lond applanse.
Mr. Mackenzie returned thanks, expressing his gratification at the fact that he had the contidence of the council so fully, and declaing that he had always endeavored to act without fear, favor, or affectuon to the best of his judgment. He fully appreciated the kindly relations existing between himself and the mem. bers of the council, and acknowledged the consideration always shown him. (. Applause)

Uping the iromin of Messrs. Wamal
 ally thereto, IIr. Isaac T. Lewis was reengaged as res'strar treasurer for a further term of ino jears. Saceral other members spoke of the excellemt and indefatigable services rendered the collene by Mr. Lewis, and the vote was hearty and unanimous.

Mr. Lewis replied, acknowledging his devotion to the college, and decharing that although he "was an old fellow of $70^{\circ}$ there was lots of life and work in him yet.

The council then adjourned until the August meeting, unless previously called together by the president.

Atsol is a trade name given by a German firm to aluminum aceto-tartrate.


## THE CHEMISTS' BRAND

 Liquorice Juice

The Testimony of "The Lancet"
The following is from "The Lancet" of March 3oth, 8895 :
"The above brand has long been known to be of standatd purity. We found the specimen to be completely soluble in water, and entirely frec from impurities of any kind. It is, therefore, well adapted for the phamaceutical purpose for which it is so useful, while as a popular demuleent it is both safe and reliable."

Recommended also by "The British Medical Journal," "Health," "The Chemist and Druggist," "Food and Sanitation."

# Retail Druggists 

Weput ap our 1 \& $S$ Licorice in cases of 125,50 , and 25 lbs . bulk (loose, in leaves), t's, 6's, s's, 12 's, and 16 's to pound. Will sell rapidly if disphayed prominenty in your show windows, and will insure you targe profits.



Acme Licorice Pellets. $\because$ Tar Licorice and Tolu Wafers and Pure Penny Stick

If you cannot get the above at your jubbers, please addess us as below:

## YOUNG \& SMYLIE,

Mroolelyn, N.I., U.S.A.



BE SURE TO GET ONE FIROM YOUR JOBBER.

## *

## Adams \& Sons Co.

A Bactorlologleal Outht.

Hy 11. Kann, Mhat M., of the lathological t.aboratory. Mercy Ilospital, Chasoso.

The pharmacist of the future must be a scientific worker if he desires to take advantage of his opportumities.

The tume is not far off when the cducated pharmaciot will be expected to make most, if not all, of the bacteriological and chemical exammations for the busy practitioner of medicine. The laboratory has come into medicine to stay, and there are very few physicians of the present day who do not place mach reliance on its findings. The examination of sputu:a for tubercle bacilli, the examimaton of blood for mahria plasmodia, and the testing of varions suture materials as to their sterility, are but a few of the possibilities of the pharmactse's occopation.

The cost of apparatus for the ordinary work of a bacteriolenital haboratory is not great, being about $\$ 175$. The following is a list of the most mportant requirements: Microscope slides, cover ghases, platuman wires, phates, sterilizer, incubator, gas-regulator, test mbes, stain bottes, cornet forceps, enamelled iron buckets, flasks, retort stand, gas burners, water-bath, wire bavkets, stains, :elatin, agar-agar, peptone, and cotton.

Mivesamp--Select the Cominental model, on accoumt of its areat stability and ability to stand much use without getting ont of repair. The stand should be weil fimshed, furnished with a sraduated draw tube, rack, and pinion, coatse and micro-meter-screw fine adjustments. A large and heaty bore makes the instrument steady; even when the tube is tilted. A large stage of vulcanized rubher, filted firmly to the stagebed, is lactier than elther brass or glass, on account of its durability, since it is not amacked by chemicals and does not break readily. The sub-sage should be litted with an adjusting screw of fine pitch, so as to a.jmut of the adjustment of the condenser. The condenser should be large, fitted with an iris diaphragm, and, if possible with a ring, atached helow, to bold a blue glass when workins with artifi-iai light, and an adjustable mirror with one side phane and the other side concate.

The best combination of objectues for this work is bree fourths and one sixth inch dry, and one-twelfh inch oil mmersion, filed to a triple nose piece. The threefourtiss and one-sixth inch lenses should be free from spherical and chromatic aberration. A onelwelfh inch oi immersion lens that will give an absolutely flat ineld canno! be purchased for a moderate amount ; but one that will give at clear picture of stained tuhercle bacilli with full illumination is sutticiently good for this work.
Eyepieces 1 and 3, Cominental, may be selected.

Shides.-Two kinds are necessary' ; the ordinary, for mounting specimens; and the hollow, used for the hanging drop. Of the former, about one-half gross should
be purchased, and of the latter about six are reguired.

Cintir Ghasses.-No. 1, haree fourtho inch square or romod, may he bought. The spuares are the must convenient and less expensive. The principal objection usually urged aganst them is that they are difficult 10 clean without breaking. This I have found not true if an ordinary amount of care and not too much pressure is used.
flutinum Vïro. -- Preces of No. 24 wire abom three inches long should be fused to glass rods sta or cight mohes long. Feur of them ate necessary.
Plates.-l'etri disties are the most conrenient, and six or mome will be repuired for a small lahormory. If Kuch plates are desired, then, of counse, the cooling apparatus, beaches, moist chambers and sheetiron steralising box m:st also le jurchased.

Very satisfactory koch plates can be made from clear window slass. benches may be made fastening s:mall pieces of thick phate glass to strips of window glass with sealing was or some wher sutable material.

Sterifizr:-One large Arnold is all that is necessary.
Incalatar:-An ordinary water-jacketed dryms aven, such as chemis:s use, makes a very satisfactory hrood oven. It is, of conse, understond that one must have a smaller burner, gas-regulator, and a thermometer, in order to complete the apparatus.
Stain Bothes.-At hast six shoald be procured; welve would be better. A very good and economical bothe can be made by rakins an ordmary halfomence: wide moun boule, litting it with a good tight stopper tirough which has been $n$. troduced a straight medicine dropper.
forcips.-Two kinds are needed--ibe cornet and coverglass forcens. Two of carh are required.
[. 1 pair of cornet forceps whose jaws meet at an acuee angle is aneless. 1
Enamillad Irion Piutiots.-Diny two of 1000 c.c. capacity and one of 500 ccc These buckets may be used instead of beakers in the manufacture of culure media. They are not expensive and do not break.
Fhask.-Ordinary Florentine or lirlenmejer flasks of 1000 c.c. capacity will answer. Threc, at ieant, will be needed.
Retere Stamd.-This should be larse, with three rings.
Stains.-Small quantities of methy? bhue, gemtian violet and fuchsin, will sutitice.

- Livarajar.-Four ounces.

Gilatin.-Gold label, one pound.
Piphome--American, four ounces.
Besides the abovementioned articles, one must have a bunsen hurner alcohol lamp, an ordmary water-bath, six wire baskets for test tuhes, onc-lalif gross fivecighths by six-inch test tubes, some good neutal limus paper, and iwo thermame. ters that wiil register to $150^{\circ} \mathrm{C}$. - Sultetint of Pharmacy:

## A Convenient Drying-Box.

The very many instances in which the pharmacist and those engaged in chemical pursuits require some casy method; desicenting various substances in larger guantutes than can be done in the glass desiccators in common use in laboratory work induced me to call attemtion to this apparatus, having used such a one for many years with most satisfactor) results. It consists of a boa made of good, sound woud, free from loose hnots or cracks, the joints leemg well closed. It should be made of planed boards, so that paper pasted on the mside "will adhere closely: the lid should fit tightly, and the edges of the bex should be lipped with soft leather or sheet rubber. A tray must be prowided in which freshly burme lime is to be placed, and uron the sides of box cleats are fastened at consenient distances to support wire frames, upon which the substances to bedried ate phaced. The case should then the closed tightly by means of hooks of such a character that the closer they are pressed to their sup. porting pins the tighter they draw the lid down. loanges of a bygroscopic character can be dried in two days' time, so that they become britile. Tough rowts, like gentian and althe , after having been kept for a time in the case, can be readilyground. Tartaric acid, bicarbonate of potasima, and other moist chemicals, if kept for a time in the drying box, will be found in excellent condition for use. Leaves contaming volatile ingredients, which are liable to be dissipated by heat, will soon be tit for powdering and found (o) retain their natural components un-aliered.-Thos. S. Wisurad, in Ameria homona of Pimamag.

## The Cleaning of Filters.

Many jears ago Professor Tyndall proved that filtmation through a plug of coiton-wool was a most efficient methed of frecing the air from microbic serms. When attempts have been made to sterilize water in the same way but little success has been atained. Guite recently, however, M. Henri potein has described a method of constructing such filters, with which he chams it is possible to completely sterilize water in harge quantitues. The fibres of the colton are finciy powderes and sifted, and then suspended in water and allowed to sente. This thes; do in a compact mass, forming a paste, which, allowed in dry slowly, gives filter phates quite impervious to tyems, etc. In practice the phates should be placed between two plates of sandutone or perforated metal, and if arranged in a battery, like the filter presses so commonly wed for sewage sludge, cice, very large yuantites of water can be rapidly sterilized. As in other filters serving the same end, tive microbes seem able waget. abrough the filiering material at length by a process of growith, so that periodical
cleamms are necosory; this is easiby done by pulping the muerial afresh in boiling water. - Indian /harmatahsist.

## On the Manufacture and Purity of the Phosphoglycerates.

In is 44 Pelouse first prepared phospho glycerate acid, by heatug slycerine at 100 (. with anhydrous phosphioric acd and in 1856 Gobley found the same atid in the yolk of eng.

This salt is now made by dizestung ghecerine at $25^{\circ}$ for sa day ai a temperature of a $110^{\circ} \mathrm{C}$., wath phosphoric acil so per cent. The mature, allowed to cool on the setenth dag. leaves a ghasy, transparent mass, which is then saturated with the milk of carbonate of lime. The whole is then filered and the chear heguid exactly neutrabed with lome and apan filtered and precputated by alcohol at 90. The preciptate is drained as dry as possible and dissolved in cold water, filtered and exaporated at a very low temperature. Various moticatoons of the general mode of monasture have been propos: ed, but the phospinoslycerate of lime pre pared by Chapoteant process (hate assist ant in !'elouse) is the one generally used in dispensing. It is important. in prescribing phosphoglycerate of lame, to insist on a chemically pure and iresh pre paraturn, as there are numerous aduherations, especially as the phosphoglycerates have always a tendeny to decompoes, however well prepared. Capsules of four grains each are the lest form for intermal administration, as the salt is then preserved from the acton of abe arr.

Hjpodermac mjections should always be fresthly prepared, as recomniended by Professor Ilhert Robin.
The following test will easily detect impurities.
A solution of pure phosphoglycerate of lime (Chapoteaut) gives mo preciptate with the ammomormagnestum reagem or acetate of uramium.
It is precipitated by heat. alcohol, and ether.

Nitrate of silver catues a precipitate (which is redissolved by an exces) of water), also acetate of lead (solulite m acetic acid). The dry phowphoglycerate of hame treated with aldohol leaves no stick; residue on exaporatom of the alcohoi.

The very prominent poxitun which fhenphuglycerate of hane and :s preparations mon hodd in therapeuthen and is undubted value as a nerve tome of the treament of neurasthena warram phyo cian frecerdang the pure and therapeats. cally active druy waly. - Tram hatad trim sh. Trimon Midial.

## Defective Medleal Training.

It sa pateme fact, wh thene whate are a puntion ze know, that the modical men of today, more partmobriy the younger edement, ate not receival the informatem
in pharmacy: as applied to the needs of medical practice, that its importance demands, and the discouraging feature is that there seems to be a growng tendeney on the part of some medical schools to phy litte atemtion to pharmacy as a branch of medical study; and much to the purely theoretieal banches. If medical men could but see the wonderful aid that it scientific knowledge of drug consthtuents and of drug administration would be of then m medical practice. there would be a revolution in this respect. For the good of practical medicone and of practical phamacy--the interests of the two are intertwined-we earnestly urge physicians to milize the pharmaceutical knowledge and skill of their local pharmacists, either to frame orgamal and palatable combinations of drush, or to aid in securmg a clearer knowledge of the race mature of drus action in the human body so far as it relates 20 physiological and pathological chemistry. On the other hand, let pharmacists perfect themselves in their professon, both by study and experiment, so that phystans consultums them shall not be disappomted, hut obtam mformation of spectal value. - Alumini Ri'ort.

## Colorado State Pharmacal Association.

The next meeting of the association will be behd at Manitou. June $22,2,3$, and 2.4, 1597.
T. the Memtars of the Colderide Shat Sharmatial Assmiation.
ltak Susi, -1 take pleasme in announcing the following commiter that have lecen appointed by Prestent key. nolds for asgi. Should your name be among those selected. I trust that you will endeavor to perform all dutices metumbent upon you, and by $s$ ) doms you will be hargely instrumental in makug this the most successful meeting that has ever been held. lisurs sruly:

Cub. F. Wism, Sceretary.

## al INinNe, esulitifiv.

Educatum.-Iohn Kochan, cinarman, Demer: $\because$ : s. prown, benver: s. j. Huble ll, Fort lapon.
1.ennlative.-S. T. Kossich, comarman, Hencer: ©has. M. Jord, E. 1.. Scholu. Denver.

Prate Interests. A. r. baniels, chair man, Iuchin: john duglum, Deneer: 1. W. Turrell. limgmon.

Membershp.--i). X . Whecker, chair mian, Deneer; I. (. James, F. Arker mann, laneres
bereaned Mentiers-lico. E. Taylor, rhairman, J,ardille: John Stromber:Denter: I. R. Wills, Fort Collins.

Emertamment.--1: 1. ©cholo, chair. man, lemer . (ieo. J. Fonda, Bender ; Onti Pehringer, Colonalo Springs.

Papurs and Gucries-Chas. Mi. Ford,
chairman, Denver; W. S. Parkison, Glenwood; IV. W. Beitemman, Cripple Creek.
Transportation.-II. A. Hover, chairman, Denver ; John Flaran, Denver; E. H. Luce, Pueblo.

Adulterations.--C. J. Clayton, chairman, Denver; C. H. Wells, Pueblo; 'T. 1). I.ong, henver.

## the .h.cohol. question.

The question of tax-free alcohol, now so prominent before the pharmacists of the country, was thoroughly discussed by the Colorado State Pharmacai Associanon, at a recent meeting, and the following resolution adopted:
Resoleted,-That the Colorado State Pharmacal Association hereby declares itself unalterably opposed to any change in the present United States laws relative to tas on alcohol, which must discriminate against thousands of retail druggists to the advantage of the few large manufacturing pharmacal laboratories.

While we would welcome free alcohol for use in compounding of drugs and medicines, we are confident that any measure intended to secure such a blessmg would seriously hamper the Government in the collection of revenue from taxed sources and make it possible for many dishonest consumers of atcohol to evade the tax. The public could not be benefited by free alcohol for medicines, because the retail druggists, not having honded warehouse privileges, would be compelled to use taved alcohol.

In the interest of the 40,000 retail druggists of the United States, as well as the public at large, we protest against free alcohol.
H. Rewnolds,
President.
Chas. E. Whad,
Secretary.

1) enver, Jan. 6, sisgi.

## Ink for Show Cards.

The following recipe, taken from the Shach of Hizudine Dressing, is said to give a remarkably good quality of ink for lacket writing and the show cards that are used in store winduws: Take four ounces white wax and one ounce and a half white soap. Melt, and when well amalgamated add of lamphlack half an ouncs. Dix well, hear strongly, and add of slellac one omec. Again heat it, mix it well, cool and bolle for use. Jou will find that with this ink tines may be drawn from the finest to the fullest withoun danger of its spreading.

Adibatum is an ointment vehicle sonsisting of hanolin (anhyd.) 35 parts, petro. hatum 5.3 parts, paration 7 parss, and water $100 \operatorname{parts}^{1}$.

Caffein-Iodol is a substitute for iodo. form, obbined by mixing molecular quantities of both constituents in alcoholic solution.

# Canadian Druggist 

## The Druggist and the Bicycle.

THAI outdoor exercise is essemtialy necessary to good health is admitted by everyone, the nature of that exercise being the question which is open to dis. cussion and to variety of opinion.

No one class of persons, perhaps, is in more need of something that will beto its members not only a source of recreatom and pleasurable outing, but also will give the needful exercise in open air, than druggists. The close confmement and long hours of basiness, the nervous tension which every carcful drugsist experiences in his vocation, the ordinary everyday routine in dealing with ail cianses of customers, makes it an actual necessity, that to perform his work satisfactorily, and to obtain a partial relief from the cares of business, he should by some means divert his mind from those cares and give both body and mind a freedom and wholesome exercise in some other chamel.

In the bicycle the druggist has something which appears to us to "fill the bill" to a great extent at least. There are other outdoor sports and pastimes which may be indulged in to advantage, but with the "wheel" there seems to be a faculty of divesting one's self of all previous employment and centering the thoughts and energies solely on the present surroundings and occupation. The limised time which the druggist or his cletk is able to devote to outdoor occupations is also a strong aggument in favor of the bicycle, a "spin" of a few miles giving an outing which cameot fail to be a benetit and emabling the rader to enjoy a change of seene and a freedom which he possibly could not do otherwise.

## The Eiffel Tandem.

Hesides the bicycles, tricycles, ete, which are intended purely for sport, there are several noteworthy machines that wake a practical apylication of the chicf advantage of the crele-its speed. These machines now serve various purposes in practical life, among which might be mentioned those used in the army, the quad. ricycle of the fire department, ete., the usefulness of which has been proved.


The Eificl Tandem.

Now a new construction in the form of a tandem makes its appearance in America. It is called the Esffel tandem and is a real curiosity. As will be seen in the accompanying engraving, the lower part of this grotesque vehicle-the oddity of which cannot be fully apprecinted from the cut-consists of a strong bicycle, on which is built a frame of hollow iron rods that is about twenty feet high. On the top of this frame is a saddle with handle bars and treadles, the motion of which is transmitted by chains to the corresponding lower parts of the bicycle. The chief difficulty with which the riders have to contend is to keep the machine balanced, as will be easily understood from a glance at the illustration, but it must also be very difficult for the upper rider to reach his seat, which cannot be a very safe one. It is not casy to guess the use for which this strange machine 15 intended, but it would seem that the rider must be placed in this elevated position to enable him to reconnoiter the ground. We are indebted to Der Stein for the above particulars.Scientific Aucrican.

## Bieycle Handle Bars and Grlps.

Nearly all the bicycle manufacturers this coming season will offer to purchasers of their machines the option of the steel or wooden handle bar. It is hardly to be expected that the latter will supersede the former entirely, yet it is a fact that the handle bar made of bent wood is growing in popularity, and it will be much more largely used than heretofore.
The point of superiority clamed for the wooden bar is that, on account of its yielding properties, it causes less vibration to be felt in the hands and arms of the rider than the more rigid steel bar. It can be made just as strong as the latter, and, of course, there is not the trouble of keeping it polished, and there is, besides, no danger of rust, etc. With all these advantages, however, the nickelied hande bar will not disappear. Many prefer the rigidity of the metal and admire the appearance it gives to the bicycle.

There will not be any material change in the shapes of bandle bars this season. All the high grade wheels will have adjustable bars, so that the rider can find the position that best suits him, and then fix the bar in that position. There will be fewer down-turned handles, most riders realizing that a position of the bar that compels one to stuop over is not by any means a cumfortable one. The width of the bars will be about seventeen to nine teen inches.

There are, of course, all sorts of odd and new shapes invented, some with two sets of grips, but their utiluy has get to be tested.

There is guite a variety of new grop on the market this gear. One called a spring ventilated grip is composed of a high grade tempered spros steel, and the clams made for it are resiliency, ventila tion, duablity, fine appearmace, and case of attachment. They are heavily mokelphated, and can be teadly attached an any handle bar made by means of a round head mekel-plated screw passing throush the centre end of the grip into a wooden plog drivens into the end of a bandle bar, and in the case of a wooden bar moto the bar itself.

Then there is a pmennatic arip wheh is said to present numbess of tingers, lame wrints and arms, stop suratom, and is adjustable to all styles of bars. One gny is corered wath branded cane. It is comfortaile, coul, clean, and elantac, and has a tendeney to mumaze vibratom. It is stronger than cork, and wears well.
There is also a fibre-buckskin grip, which possesses great absorbemt grahit,er, and is light, tough, and strons.

Many riders have been bothered with the tips of their grips breaking and coming off. Tris season's gnip has leen patented, in which it will be noticed that the tips are part of the wood core or bushing, the former bemg enamelled in different colors resembling bard rubber. The adrantage of this mode of construc tion is clamed to be the impossbility of the tips breakmy or being pulled off.

There are grips, too, of pearl, of wood and pearl, gold and stherphated grips, and styles various enough to sum cevery sonceisable tante. - Hijimiss.

## A Convenient Wheel Attachment.

##  comtine.

Among the inventions worthy of note is phillips' coaster apparatus. This simple mention is one of the most remarkable adjustments for bicycles that have been shown this season.
This exiremely simple, get powerful, device can the atached in any bicycle without alecring the wheel in any way, so that the wheel is changed at shght cost to a coasting wheel, whereby the rider coasts staty per cen. of has journey on the ordinary streets with abou: seventy-five per cent. of the energy ordinarily used for propelling his wheel. The inner wheel is atached firmly the rear hub. Cpon this whel are ten teeth, and between the teeth are hommy pockets that contain ten steel halls. On the interior of the oater s.rocket wheel are fitted cight tecth, and the outer wheel covers the interior whed. This is a difierential sprocket.
it all positions of the pedale a forward motion propels the whed whibout any lost motion. As there are eighty points of
contact, thene is no jerky motion in the sprocket when starting to predal.
llith live revolutions of the pedals the inventor chams the wheel will coast two blocks on an ordimary level pavement. When the desired speed is obtaned by the ader, he simply keeps his feet on the pedals, and the maner whee of the sprocinet revolving with the hub, displacing all the balls by being pushed into their homes again by the dogs of the outer sprocket. There is mis hitchatg and no triction Whenever the wheel is turned rapidly by the use of the pedals the chain remains stationary as soon as the pedalling ceases.
Altached to the lower brace tubes immediately atong the side of the from tire of the whee is a powerful foot-brake. op. erated by the pedals. The brakeis brought up agamst the rear ure durmg the process of coasting The momeat the fect are statonary on the pedals, the upper section of the chain sags and engases a lank on a pome whel incluses forward at the botton of the hood of the brake, and by simply back pedalng the brake is brought up aganst the rear cure by the chan, and the wheel can be brought to a dead standstill on a ateep lull in from twelve to fifteen feet.

## A German Motor Cycle Which Travels Twenty-Four Mles in an Hour.

The machine petured was purchased in Munch by a member of the staff of the Stiontific $A$ mirtan, and was, atter some practical use on (jerman roads, brought by him io this commery. It is, perhaps, not so much a biejcle, as we know that captivatung mechanism in the country, as a sort of individual road locomotive, and su it 1 i , in fact, called
roads to a distant town, whout exertom to himself, at the speed of ath ordmary aecommodation train.
To start the cycle, which, by the way, is fitted with the finest of preumatic tires, and is as horoughly comfortable as any liegele, it is necessary first to partly fill the resenvoir with benzine. The rider then opens a door in the ignition box and inserts ar alcohol cor(h, which, in a few moments, makes the ignition rubes red hot. Then a lever which lies alung. side the rybth hande bar is presied, and the rider walks alongside his machine, pushing it slowly, ull he hears a slight explosion.

## E.SS 10 (ONaROS..

This only requires a fens step and the explosion means that the engme has begun its work. Immediatel; the rider mounts to the seat and off he goes. He is sutturg on a comfortable sadde, his feet are on broad, comfortable toot rests, his hands contro! the direction of his course as perfectly as if he were seated on has American bucyele, and a brake is directly under his right band.

The speed of the wheel is regulated perfectly according to the wishes of the rider, except that he cannot move at a rate less than three miles an hour. The proportion of explosive mixure supplied from the tank to the explosion chamber regulates speed, and this is perfectly under the control of the ider through manipulation of a lever close under his right hand. We quote this descripion of parts from the Stimtific American:
"The ensine cylinders are three ninesixteemh mehes in diameter, with a stroke of four fiveeighth inches. The supply and exhaust walve aper!ires are half an inch in diame:er. The I nzine reservoir is thirteen inches long $i$ d seven and a half inches in diameter. The driving

by its owner. It is literally a motor cycle.

There is much in this machine to intelent the practical mechanic, because the motor, which is run by common benzine, has novel qualuties whose technicalitues would not be read with profit or pleasure by the uninitiated. It is enough for most of us to know that such a wheel would carry its rider over ordinary good

Wheel is twentyetwo inches in diameter, and the guiding whee is twenty six incles in diameter. The phemmatis tires are made specially large and heavy to support the weight of the machine and rider. The tread of the machine is four feet; weight when in rumning order, a hundred and fifteen pounds.
"The reservoir contains a supply of benzine sufficient for a run of twelve


## ....A Few Facts ....Worth Knowing



BICVCl.E is now a recognized institution all over the civized wurld. Its great usefulness has given it a tirm hold, and it is now a necessity in everyday hfe, as well as a constam pheasure

In purchasing a mount there are a great many points to be considered. A good article always costs a litle more, but a poor article is dear at any price. The three most essential points of a Bicyole are Strength, Easy Running Qualities, and Durability. Practical conseruc tion and simplicity in detans are also very important poims. These points are all cmboded in the Massey-Harris, and are as near perfection as it is possible to get them.

Our Frames are made from the finest quality of Mannes mann cold drawn, seamless steel tubing. Every connectom is made from a steel forgug accurately machined and brazed. This ensures rigidity and

## STRENGTH

Our Bearings are all turned from solid bar stect of a special quality manufactured expressiy for that purpose. All cups and cones are case hardened for wear, and then ground true to gauge. We use $3 S^{\prime \prime}$ balls in the crank bracket, and $5 / 16^{\prime \prime}$ balls in the rear hub. Best Eughsh Perry chains, sprockets cut from Perry designs, large sprockets from and rear. Result : Minimum of Fretion.

## EASY RUNNING QUALITIES

Every piece of material entermg into th construction is carefully tested and inspected through all tie sarious operations. The satisfaction given by the Massey-Harris during the past season is a proot of

DURABILITY
Our Crank Bracket would be umsersally used if it wese not patented. The advantages of our detachable crank are:-1. Any person can remove the cranks, clean and replace them mside of five minates without soing the fingers, or using any great force 2 . No obnoxious crank puns or retammy nuts is bother winh. 3 . Bearmgs on either side of botom bracket may be removed in a monemt, whthont interfering with the other side, or removing the chain. 4. Large balis. 5. Cranks are always in line. 6. Lightness and easy running assured. i. Thoroughly tested.

## PRACTICAL and SIMPLE

The Massey-Harris is upto date in all details. Perfect in design, made of the best materials, elegantly finished, and High Grade from start to fuisish.

## raOUR EQUIPMENT IS THE BEST, $\sim$

we fit as
Dunlop Tires and Dominion Laminated
Wood Rims. REGULAR equipment

Christy Anatomical Saddle. Garford Padded and Plain Top Saddle. Messinger Hygienic Saddle.

One lrice
'roAll
$\$ 85.00$
(D) Gixade The IItighour

## We Can't

tell you about jour own husiness--but we can

## Talk

sense, and be of service to you in the purchase of a Bicycle,

## But

we are modest and don't want to intrude if not wanted. Everybody

## Can Read

between these lines, and learn that our intentons are to interest you and

## Teach

you that a mount on one of our Silver Rub. bon Wheels will make jou smile

## And Think

of the comfort and pleasure you will have.

## We Are

paymg spectal atiemun to the rumung qualites of our wheel, not to "fads" and "talking points."

## Happy

will be the riders who provide themselves with a

Massey= Harris Wheel


Massey-Harris Co. Ltd.

## Branches-

Bleycle Department
montreal, que
winnipeg, MAN
ST. JOHN, NB.

Toronto, Canada

## 

TIE design of the bearign aned in the rellow Fellow has been evovied from long gean of experience, combined with collotatt trial and study to ceonomize in power and reduce friction in every part of the bicyele.
Gaod bearing, are dependemt upon the quality of material and accuracy of workmanhip emplojed in their combtraction. The secret of at berfect bicycle bearing is a pooperly de-igned and hardened bearing surface, correctly adjusted and ground to conform to the reguirements of the moving balls such a bearing alwajs ran easily and smothly.

The bearings of the lellow fellow are mate from the best of steel, furnished according to carefully prepared specifications as to quality atad chemical composition, the material having been proved by the mots severe tents to give the bent
of sati-fiction.
 The steel is de. livered to the factory in long bright bars of requinite size. The bars are carefully in. spected and tested (1) see that the material is coactly what was ordered before they are accepted.

The cups and cones are furned up by skil. ful machinins intothe required form out of these solid stecl bars. Every operation is carefully inspected, and the finished part reguired to conform to accurately constructed gauges which are made to lit every patt, and any slight sariation in size, form, fit of threads, ecc., resalt in the rejection of the part. This results in the greatest accuracy in the bear. ings and the absolute interchangeability of tmibled parts is asoured, such as cannot be froduced in any other manner.
Take, for instance, the lall cup in the ctank hammer-it is a set of nine separate ghages which it is required to tit accurately before it is aceepted.
All bearing parts are specially bardened and carefully drawn, so as to oltain requinite strength and toughness while preserving an evtremely hard, file-proof bearing surface.
The grinding and polishing of the bearing sur. face is done after the steel is properly hirideneci. This grinding is performed in specially constructed machince, in which the parts are so held and hromd as to ohtain perfecly true and concentric bearings surfaces, thus asuring a smonth-running bieycle. The bearings are all gronnd to a gange fit.
The bearings used in Stearns bicycles are of the three-point type, this patern having been proved to be lest adapted for bicycle wage. The superionty of the three point bearing will be more apparent from the illustrations. Figure : shows i full-size veew of the three-point bearing, and ligure 2 one in which the balls have liso points of bearing contact.
In a new wheel with perfectly adjusted bearing, so far as running qualitics are concerned, there is practically no difference, as both systems are effective. Howeser it is a well-known fact that the ene is a slight variation in the size of the balls, and although they are sorted and inspected with the greatest care, it is impossible to selec: them closer than to the nearest resis of an inch or $10^{2}$ in
of an inch from standard size. Also as the balls are gradually worn smaller, as is bound to occur, they do not wear perfectly roma, and hence do mot retain their spher. ica bshape. Furthermore the ball cap, ow ing to the side dirnst of chain draft do not we.ar perfectl: true, but are worn twore on one side than on the other by the incrensed pressure on the ball at this point. It is evalem from the illustrations that in the cul) having two points of contact, these, or any slight variation in ad. justment, have only abont haif the effect that they would have in the cup with one puint of contact.
Hence, it is passible whit the three point bearing to obtain a clus. er and firnuer adjustment and a better adjustmen. for the wear, which is bound to occur even in in the best constracted bearings.
In the three-point bearing, maler similar conditions, the wear is not as great, since the weight is distributed between the two points of comtact, and the wear is less chan if ia all came at one poim. So lar as friction is concerned the differeace, if any, is slight, for although there are more points of contact it must be remem. bered that the preseare at each poine is cortespondingly reduced
In the three-point bearing the wedging of the balls is almoct entire. ly obviated, which adds to the easier rumning gualities of the bicycle. It is apparent that with the three point benring the life of the bearings and the wearing quali. ties of the wheel are in. creased, and a closer and more accurate adjustment and finer running bicycle is oblamed.
In general line and detail the '97 Stearns is very taking, and in it are to be noted some marked improvements wer last season's: the
 most mportant of which ate as follows: Fiush connections, entirely new and origima pattern, unlike those used in any other bicycle, giving a finished appearance, handsome and workmanlike. The crank hanger is

make solid. The ball cups are much heavier
than heretolore. The crank hanger ball cups screw into the hanger and are held by a binder bolt underneath. The crank aules and cones are in one piece. The entire comstruction of the crank hanger bearing is surh in to insure solidity and verenget. The flat cramk has been retaised. but the edges are shighly remoded, to avoid any powiblat of cuting the sole of the the shoum it come in contact with the edge of the crank. The cotter gin form of fastening has been eptirely done away with, the cranks being split at the trutt and held in place ont the triangular ends of the crank whaft by a boht and mo.t. The crank shaft and left-hand crank can be removed from the hanger a; in one piece, affording atl the ad. yantager of the two piece crank shaft and cranks. The freme sprocket is detachable, and is held in place on the crank shaft by arms extending ont ward fomm the but of the right hand crank, and bolted to the spokes with the sprocket wheel. Bearing coses are fitted with ball retainers. The upper head bearing has been materially changed,
and will be foumd eminentiy satisfactory. The top of the fork sites, where they fit in the fork crown, are provided with an owal silver cap, on which is engraved the werd "Stearns." The regulise eyuipment of all wheets for gers up to and including $\$_{4}$ inches, will be a detachable S.tonth rear sprocket. Where gears higher than $S_{4}$ are required, a 7 -tooth detachable rear sprocket will be pravided. Nine varieties of handiebar, in cither wood or stel, are offered. Tread of the Raeer and Special will be 4 inches ; on all ather models $4: 3$ inches. Pedats will be of the same type as hast 3 car, impored in details, with. out the miling device in the ead of the shaft. . All models are artistically hand striped.

THREE OF US.
Whene'er on l-to I ciance to call, I find were always three --
For I am quite beside :..yself,
And lyo is next to me.


John L，abate，London，Ont．<br>さこにじい1ばい

## MEDALS and HIGHEST POINTS



MONTREAL－P．L．N．Beaudry， 127 De－ Lorimer Avenue．

## DENTON＇S $\begin{gathered}\text { Nous } \\ \text { count }\end{gathered}$ Acme＂Lens－ Front Clinical Thermometer

STILL MORE EASY TO READ．
index and scale in the same plane．
WILL NOT ROLL
indelible engraving

ToRonto J．Good is Co．．Yougestrect． ST．JOHN，N．B．F．Smith．it Water Street

```
＂THE LANCET，＂＂BRITISH MEDICAL JOURNAL，＂and＂ fHE OPTICIAN，＂
＂THE LANCET，＂＂BRITISH MEDICAL JOURNAL，＂and＂rAE OPTICIAN，＂ strongly recommend
```



WIULKESMI．と G NI．．IT
25a Baton Garden，London，England．

## The Harry Lewis DOG SOAP

Made from the
Original Recipe


MARIE．

Beautifully put up． and a Good Seller．

## Whale Oil Soap

$\qquad$
in 1 lb ．boxes， 1 doz in Case ； In 20－1b．Pails and Barrels

家 For killingrinsects on Rose Bushes，Plants，etc．

THE ALBERT TOILET SOM CO．，
 of the Works of Eugeneficht．

## FIELD $\approx$ FLOWERS

Che Eugene Field Monument Souvenir
The most beautiful Are Production of tine $\mathrm{C}^{23}$－ tars．＂A small bunch of the most fragrant of lipase sums gathered from the broad acres of Eugene fields beautiful of the proms of Eugene rick．I hand sanely illactmted by thirty five of the world pitatest artists as thicir contribution to the non moment Fund．But for the noble contributions of tic great artists tola took could not hare been manuface outed for $\$ 7.00$ ．Formate at book sores，or cent prepaid ondeccipt of $\$ 1.10$ ．The love offering to the child＇s oct laureate，published by the Com－ arse to create a sum d to build the Monte：
and to cire for the family of the beloved pot．
 au Asonrue Street，Chicago，It．

## Mainer＇s Cough 




A．MAINER，－TORONTO．


## IV r Mernuferfure

z：nvoloper－ Writing＇allots school iblituks Homo．Books，wry，are． 15

wn＜compat＞ᄂ＜compat＞．．．STATIONERS＇SUPPLIES
DO YOU WANT THESE GOODS？
Then write us for prices ．．．．．．．．．．．．
тие W．J．GAGE CO．，ıтв．， F？－it Front st．West，－－roritonjo．

## BIRD



SEED
 ares． 1 ah phage contains a fisecent coke of＂Hire Tits＂and piece of cuttle－ oblate．
It is with abcotived，and sell，readily at do com，faring retailer n large petit．
oud man in．and jo H ．caves by all where oles，or
NICHOLSON \& BROCK

Colbome Street－Toronto，Ont．
bours．The machane is able wime it a speed of from（100（1）twemt）foum mater per how．：

## A Naval Velocipede．

Water velocyeden hase been ram structed by difietent inventos，but mone of them apear to have wan whelto nto． factory results．Still，imponemont is noticeable in the later doman，and，a m the history of stemulupe a shat whame has been made by nabutumestow pirn pellers for the pratalle whets ons：ation used．

A pecular kimel of water winpode has been invented and sepothedly m－ proved by Horr bieger，and the lace development of tha meentom has ben fully discussed in the Pha aria：－／itans； to which we are indehted ton the detais． The propeller are hollow，to sine them suffictent buoganey of catry the whoie structure whith meupants．In a velo．
of about thinteon muliv would be obtained．




## Bicycle Lemp 011.

The following of given an a receiph for atiac lamp ont Fill a pme bote wah （wo thims of the beve lad ond and ane－ thond of hadlughe onl，to which add a prowe of zum cumphe drom the sice of oll ces．The compher is supposed th come the ait to \＃ne a bery wate light， flad it is and that the lamp will not go wh c．ぃい小．

## Cement for Leather．

Take of trons shee， 50 parts；water， a．．．mpentme，z pans；urch paste， roo puts．In we the glue over the bite in the watet，add the turps，sir up wefi，and whe whi the starbh paste while hen．
of the spinit but not enough to remeit or burn the lacyuer ：or che the article to be lacqueted is made hot and then the lac－ quer laid on the hot metal with a brush， and if the article be large enough to ae tain its heat the roat of lacepuer will dry theteby，bat it the article is small it should he submuted to a sufficient beat to dry it．The dy heat of a hot oven is the best to use－better than the heat of an open grate．

Blat Laciater－
1 gallon of yinn．
t ch．et alkahb hise whble in－pirit．
5 ore of hellac：
5 we of madarac resite．
2 wrs．eleme rein．
（ircen i．acquer－－
（1） 1 gallen of yirit．
$\frac{1}{1} 08$ ．bralliam green．
Io vo，vellac．
This gives a blue green tone．
（2） 1 gallon of spitit．
I drachm anamime．


A Naval Veloclpede．
cipede with four seats，wo serew proped lers are provided．lach of them 1 p par－ titioned so that injuy to the she th the propeller will not cause suknog of the velocipede．The axiv of the phopeller is level with the surface of the water．The centre of gravity is wely low，se that enp－ siaing is almost impossible．

The propellers cut very eavily through water and air，and lithe pmer is reguired to rotate them．Their action is difteremt from that of a ship＇s propeller in that their inner portions，near tine axis，have a considerable doving effect，white with a ship＇s propetler neaty ati the work is dome by the outer ends of the blades．The length of the screw propellers，including their tapered ends，is about five and a half yar is．

Each revolution of the propeller pro－ duces a forward movemem of about foar yards．With forty－five fedal strokes a minute，and a gear of one to two between propeller shaft and pedal shaft，a speed

## Cement for Patching Bicycle Tires．

The following is recommended：Guth perch．1， 20 parts；caoutchoue， 4 parts： singlass， 10 prurs：carbon dinulphice， tho prats．The cement is dopped ino the cievice after they have been properly cleaned．If the cm is very bis apply the coment in layers．Bind up the rubber ure bighty wht thread，iet dry from if to $i^{6}$ hesurs，cut off the thead and remore the protruding cement with a sharp knife， which mus：previously have been dipped in water．

## Fancy Colored Lacquers．

These chiedy consist of shellacdissolved in methy lated spirit and colored hy the acid of ambitere dyes．lacquers are unchally applied to metals either by brush． mg or i in the solid，and submitting the hacquered atticle to a moderate heat for a couple of minutes－－just sufficient to dry

1 drachm methyl green． 10 ozz．shellac．
This is a gellowish green．
（3）I gallon of pirit． 1 drachm of brilliant green． a drachm chrosoidine． to o2s．shelliac．
Vellow or Gold Laçuer－
I gallon of ripitit．
2 drachus aniline gellow．
10 on ．shellac．
Deep Lacquer－
1 gallon of spirit．
202 dragon＇s biood．
2 ozi．eleme revin．
o ozs．sandarac．
10 ofs．shellac．
Dcep（iohl lacquer－
${ }^{1}$ gallon of spirit．
5 drachms dragon＇s blood．
5 ozs gamboge（powdered）．
5 ozs．turancic root（powdered）．
$12 \frac{1}{2}$ ozs．shellac．
rale Gold Lacquer．．．
1 gallon of spirit．
$\ddagger$ drach ors gambage（poudered）．
1002s．orange shellac．

Brown Lacquer-
1 gallon of yurat.

- drachom of sallom
$t$ co. of annatho.
4 ors turmerti.
it on, hellos.
Pale lacauer-
1 gallon of yinit.
1 oz. gambuger.
10 elemes sevin.
4 (10). subdurac recin.
5 ost orange veillac.
Violet Lacquer
1 gallon of spirit.
2 drachmo of methyl viset.

300. eleme rean.

2 oze shellac.
$S$ ors. samblarac revill.
A variety of ed lacquers are made by using the same red color magenta, rosein, gremadme, etc., but care should be taken not to use any of the amlure colors in too great quantules, becathe if you do you will have a hromed bue mstead of the colce desired (in such a cave the remedy lies in diluting the lacquer with more spirit and shellac).

With regatd to the magenta series of dyes, particular care is repured in using the particular one described, as these dyes are made in a vane:y of tones, some red-violet, some blue volet. ete. - ()ils, Colurs amd Dresallerias.

## Another Cycle Freak.

The (irnle sochable safety in so constructed that a will appeal to all cyelists -lovers of the tandem, howeser, preferred. It is saidit poneesses all the jors of the tandem, with none of it disappometments. Riders mays sit vide by side and talk about their fricols, eat cracker-jack, or gate skyward, whle the wheel will run along all the time. But it need not always be ued tor wo. The machme can be so adjusted that one person can rode it. It can : iso be constructed to lit any kind of an ill-sorted pair by adjusung the seat posts and using exira handles.

These thangs ran le done because the seat pont, lower tube, and rear forks are


The Grille Sociable Safety
built in such a manner that two saddes can le ueed, placed sude hy side, and two extra crank shafts are made to turn the same chain wheel.
Bicycle Notes.

The Bucycis Boom. - The British post office has invited tenders for ten thousand cycles. The post office is going to provide letter carners with machines.

A member of the Chamber of Deputies, France, has drafted a bill for the creation of wemt-five rompantes of miltary eyclists, ten of whoh he proposes to attach to the cavalry corps. Lench company is to be zoo strong, and the cost of the new arm of the servece he places at $1,400,000$ francs. His adea is that cyclists should be ared procipally to support lighe cavalry.

An ingenius arrangement was seen on the see the other day in the way of a bicycle on the frome whee of his machine the rider had attached a skate, and on the outside of the rear wheel he had fastened a leather strap, il wheh were numerous sharp pieces of steel about three guarters of an meh long. Thicse took hold of the ice and drove the frome wheel alung. The speed attaned was equal to that of the average skater, but a tritle more exerion than ordmary was necessary to drive the wheel. The owner sad that this was his second winter whth an ice bicycle, and that he constdered ruding on ice much preferable to a read and twice as much sport.

Bicyclists have been emplojed by some enterprising French pharmacsists to hum up presenptions from the doctors and to deliver medicines by the same means. Sot content wath thy, $m$ order to reip, the maxmmum profit from this addmonal outlay, the jove it some instances furnished these :mis. sartes with pharma. centical products, which have been sold contrary to firench law. In consequence, one of these perrpatet:c employes has been condemmed before the Tribumal at Auserre for selling a boric acid omtment, and has been fined 500 franes, but havins proved that this was has first comiction, arathed himself of the Berenger law, while the pharmaciet, his employer, was condemned in costs. Truly they manage these things better in France.

The druggists of Sydney, N.S.W., evidemly are of a consenial spirit, and we do not see why those in our larger town and citics should not follow their example in forming clubs for amusementandsocial intercourse. In The Pharmaceatical four-
nal of Australasia we read of "The Chemists' Cycling Club," which numbered thrty members, taking an outing to the iestidence of the prestemt, at Sandringham,and whle thete indulging in billiards, quots, ctc. These reunions amongst the craft are not ouly conducive to bealth, but are of vast benefit in bringing together its members in a social was.
" Fi ce of habit is a great thing."
"What makes you think so?"
"I just saw lawkins and his best girl on a landem, and they had the lamp turned down until it was almost extinguished."


## A Ipha Pure Pubbber Cement



Our Alpha Pure Rubber Cement is specially adapted for use by Bicyclists, and is neatly done up. . . . .


## Remedies Introduced in 1896.*

Acefal-Mixture of acetic ether, oils of orange, thyme, wild thyme, cloves, lavender, lemon, rosemary and bergamot, benthol and absolute alcoho Must no ise confounded with true acetalethylidenediethylic ether-a hypnotic and sedative.
Aitol-Silver lactate. Resolvent and antiseptic. Dose (subcut.): 0.01 gm . Extern., 1:500-1:5000 solution.
Aaipatum - Proprictary ointment-base consisting of anhydrous lanolin, vas:elin, paraffin, and water.
Aerozol-Essential oils containing twentyfive volume, of ozone.
Arnolin-New propretary wodifat.
Alkali:alluminate-A powder, soluble m water, and used as a culture medium in bacteriology.
diodit-An extract of the thyroid gland. 1 gm . aindin represents 10 gm . fresh gland.
Alipurin-A purified wool-far.
Alrophene-Caffenol.
Amyloform-Compound of formaldehyde and starch, similar to glutol as a surgical antiseptic.
Ammonin-"A soda deposit to which calcined soda is added. For the manufacture of soap and for cleaning linen."
Anazyme-Chemical combination of carbolic and boric acids. Succedaneum for iodoform.
Anasyrine Hydrobromate-The hydrobro. mate of an alkaloid obtained from the seeds of Anagyris feetida. Used as a stimulant in cardiac affections.
Anal-Remedy for piles, etc.
Aneclasin-Ectasin. A product of bacterial action, and of contrary influence on the vaso-motor nerves.
Anisidine Cilrate-Analgesic, possessing similar properties to phenetidin citrate.
Antibucterin-An ethyl-orthoborate com. found containing some iron. Used in inhalations in tuberculosis. Not to be confounded with "Antibacterin-Stier," which is a crode aiuminum sulphate mixed with soot.
Anticausticon-A preparation of soluble water glass.
Antichlarin-Mixture of glucose, basic bismuth formate, and sodium bicarbonate. Used in anemia.
Antidiabeticum-Glycosolvol. A preparation intended for diabetics, and said to possess the power to reduce the amount of sugar from 1 to 7 per cent. in from 3 to 18 days.
Antidiabetin-Mixture of saccharin and mannit, used instead of sugar by diabetics.
Antilenticranin-Antimigraine.
Antimigraine-Antihemicranin. A mis. ture of caffeine, antipyrine, and sugar. Dose: 1.5 gm.; children under 12, 0.75 gm.
$\rightarrow$ Merck: Kepor.

Anti.nausen-A remedy for sea-sickness, said to be composed of cocaine and antipyrine.
.Intipilus-A preparation for removing hair without pain our injury. Germicide and anti-parasitic.
Antiseptin-Mixture of sodium or potassium silicate and corrosive sublimate solution, used for preserving wood. Must not be confounded with the Antiseptin composed of zinc sulphate, zinc iodide, thymol, and boric acid.
Antisuluritt-A mixture of boric, citric, and salicylic acids, borax, glycerin, alcohol, distilled water, and several ethers.
Antitoxin, Artificial -An antitoxin pie. pared by passing an electric current through a toxic bouillon. Bactericide in diphtheria.
A. usol-A remedy in the form of sup. positories, and intended for use in tenesmus, catarrh of the rectal mucosa, anal fissure, pruritus vagine, etc.
Apral-Preparation used as a preservative for meats, beer, and malt liquors.
Arsinine - $\mathrm{C}_{6} \mathrm{H}_{1+} \mathrm{N}_{4} \mathrm{O}_{2}$. A substance obtained by the action oi hydrochloric acid on proteins, and also found in various plants.
Aromatin-l'retended succedaneum for hops. Said to be finely scraped gentian root.
Aseptolin-An aqueous solution of phenol and pilocarpine. Used in pulmonary tuberculosis.
Athanon-A disinfectant.
AtropineStearate- $\mathrm{C}_{1}: \mathrm{H}_{2}: \mathrm{NO}_{3}, \mathrm{C}_{1}: \mathrm{H}_{3}:$ CUOH . Applic. in $1: 500$ oily solution as substitute for Ol. Belladonna or Ol . Hyoscyami.
Bismal - $4\left(\mathrm{C}_{1} \mathrm{H}_{12} \mathrm{O}_{10}\right)+2 \mathrm{Bl}:(\mathrm{OH})_{: 3}$. Bismuth methylene-digallate. Intestima) astringent. Dose: $0.1-0.3 \mathrm{gm}$. every 3 hours, or several times daily, in wafers or powder.
Bismuth Borophenate-See Markasol.
Bismuth Iovetinute-Used as a surgicai and intestinal antiseptic, and also in oph. thalmolog):
Boralid-Mixture of equal parts of boric acid and acetanilid. Wound antiseptic.
Boricin-A mixture of borax and boric acid.
Caffinol-Algophene.
Calaya- An extract made from the fruit of Anneslea febrifugo. Febrifuge, used in malaria. Dose: 2 gm . every two hours.
Camphor Resorcinated - Compound of equal parts of camphor and resorcin melted together.
Camphor, Thymolated-Mixture of equal parts of camphor and thymol melted togetiner.
Cannabint-Active constituent of hemp. Carissin-Glucoside from the bark of Carissa ovata. Resembles strophanthin in action.

Ceral-Copyrighted synonym of "Pasta Cerata Schleich."
Chinaphtol-Quinaphthol. Quinine B. naphihol, a monosulphonate. Intestinal antiseptic and antipyretic. Dose: 0.5 to 3 km . per day, in wafers.
Chinoform-Quinoform. Compound of cinchona extract with formaldehyde.
Chinosol-2 $\left(\mathrm{C}_{41} \mathrm{H}_{0} \mathrm{~N}_{2} . \mathrm{OS}_{2} \mathrm{O}_{3} \mathrm{~K}\right)+\mathrm{H}_{2} \mathrm{O}$. Antiseptic. Must not be confounded with Quinosol, known also as Kresochin, which is an entirely different preparation.
Chloriniun-. 1 mixture of sadium chloride and maganese binoxide, and a liquid, sulphuric acid, kept separately. For the extemporancous preparation of chlorine gas for disinfection.
Chloro-Naphthot-Disinfectant. Non-poisonous substitute for carbolic acid, and said to $\overline{5} \mathrm{e}$ a combination of creosote with an alkali.
Cocaine Stearale- $\mathrm{C}_{1:} \mathrm{H}_{21} \mathrm{NO}_{4} \cdot \mathrm{C}_{17} \mathrm{H}_{35}$ COOH . Used as a substitute for cocaine oleate.
Coiapyrine-A mixture of cocaine and antipyrine.
Colligramen-A bame given to a variety of bandages, prepared with glycerin and a glycerin-zinc paste.
Cosmin-Agathin.
Cupram-A solution of copper carbonate in ammonia water, used as a fungicide.
Di-iodosalicylic Acid Ester-An antiseptic, to be used instead of iodoform, and given internally instead of sodium salicylate and potassium iodide.
Dormitio-A sedative, consisting of diluted alcohol, oil anise, extract lettuct, and sugar.
Duotul-Guaiacol carbonate.
Didymin-An organo-therapeutic preparation made from the epididymus of the ox. Possesses properties similar to those of spermine.
Ectasin-See anectasin.
Eosote-Creosote valerianate. Antitubercular. Dose: 0.2 gm . increasing to r .2 or 1.8 gm. per day, in milk.
Epithema-A local anmsthetic for dentistry.
Erythrol Tetranitrati-Used in cardiac affections instead of glonoin.
Ethylenediamine Cresol-Non-poisonous disinfectant. Satd to easily penetrate the skin.
Eucaine-The " methyl cther of a benzoylated oxypiperidinecarbonic acid." Local anmesthetic.
Eucasin - Casein ammonia compound. Dietetic.
Eurythrol-An aqueous extract of the spleen. Dose: 1 to 2 f . dr. in a cup of hot water.
Fango-Mud from the hot surings of Battaglin, Italy; used in gout, rheumatism, and female diseases, as a cataplasm.
serrostyptin - Styptic and antiseptic. Dose: $0.3 \cdot 0.5 \mathrm{gm}$. (in Rhinol).

Fibmagen-A protective velucle for applying medicaments in skin diseases. Also known as Liquor Adhesivis.
formatdehyde.Gelatin-Glutol. Protective wound amiseptic.
Formin-Usotropin, Hexamethglenetetramine. Uricacid solvent.
Formoprinc-Combination of antipyrine with formaldehyde.
Frojarol-An ethereal wil obtained from the frejar tree; odor like pepper; used in
the East Indies in skin daceases.
Ganltherose-A special ferment that acts on the glucoside of plants, producing methyl salicylate.
Gehurol-A mixture of oil of cajuput and expressed on of almonds.
Gelantham-Vehcle in cutancous diseases, composed of glycerin, tragacanth, gelatin, and water. Recommended by Unma.
Geosote-Gunacol valeriamate. Intitubercular.
Germol-liquid preparation analogous to cresol. . Inhbactericide.
Glutoform-A compound of gelatin and formaldehyde, differmg from glutol.
Glutol-See Formaldehyde Gelatin.
Glybolit-Paste made of equal parts of boralid and glycerin. Antiseptic.
Gonopissin-A gonorrhoeal injection, said to consist of pepsin, boric aced, infusion of cranberries, and water.
Guethin-Exhyl ether of pyrozatechin. Said to be superior to guaiacol.
Guainctin-Pyrocatechin mono-acetate. Antitubercular. lose: 0.5 gm . several times daily.
 Ethylene ether of guaiacol. Anttubercular. Dose : 0.5101 gm . twice daily in pill or cachet.
Guaineol-dithylene Ether-
Hemicranin-A mixture of phenacctine, caffeine, and citric acrd.
Mepaticini-Proprictary liver regulator.
Jiermitine-Surgical antiseptic and disintectant. Said to be an electrolyzed seawater.
Holain-A 60 per cent. solution of formaldehyde gas in methyl alcohol. Disin. fectant and antieeptic.
Holzinol-A solution of formaldehyde gas in methyl alcohol containing a small proportion of menthol. Antiseptic and disinfectant.
Heparadiin-lactose trituration of dried extract of liver substance, 1 gim. repre. senting 2 gm , of liver. Employed in icterus. llose: 6 to 10 gm . daily.
Slowit-Cleanser for pipes and conduits of beer pumps, said to be impure caustue soda, soduum carbonate, and sodium chloride besides sulphates of alkahes, calcium carbonate, calcium sulphate, and iron.
Imidoid-Non-poisonous antiseptic. Uses like iodororm.
Influensin A mixture of phenacetin, caf.
fene, qumne, salicylate, and sodium chloride, used in migraine.
Inosifi- Substance recently produced from "thyraden" (extract of fresh thy. toid gland).
Intistin-A combination of bismuth subnitrate, naphthalin, and benzoic acid. Intestinal antiseptic. Dose $: 0.5^{-1} \mathrm{gm}$.
Sodamy/um-Insoluble iodized starch.
Sodizcd Starch, insolulli--Surgical antisep. tic.

Ledocin-Antisephic, analgesic, styptic, disinfectant, and deodorizer.
Codedideformin-Compound of iodine and iodotorm. Antiseptic.
Sodophen-Nosophen.
Sobophenol-A solution of iodine in carbolic acid.
Suluthrrin - Thyroidm. A milk sugar trituration of the active constituents of the thyroid gland. Dose: 0.3 to 0.5 gim. Ito 2 gm . daily.
Jobucaine-lsocthylecgonin benzoate.
Itrol-Silver citrate. External antiseptic. Appled in : to 2 per cent. ointments, or in 1.500 to 1.5000 solutions.
Itrosy-Concentrated spirit of mitrous ether.
Jeconin-A substance containing sulphur and phosphorus, and found in the livers of horses, the liver and spleen of other anmals, in the blood and muscles of horses, and also in the human brain.
Jicorin-Substitute for cod liver oil, composed of calcium chlorhydrophosphate, calcium lactophosphate, lactucacid, phosphoric acid, iodine, ferrous iodide, compound extract of artemisia, and fruit syrup.
Kithurol-A solution of hydrogen peroxide. Used as a mouth wash and as a wash in surgery.
Klemmolin-Proprietary rheumatism remedy.
Kesintmin-An active principle from Kousso (Koso). Strong muscle puison.
Kiresafrol-Solution of cresols in sodium cresyloxyl-acetate solution.
Kresochin-Quinosol. A neutral chinoline trictesyl-sulfonate. I disinfectant for surgical instruments. Bactericide. Applic. (Gynecol.) 0.1 to 0.2 per cent. solutions.
Inctyltropein- $-\lambda$ remedy used in asth. matic and cardiac affections.
J.aureol-A mixture of cocoanut oil and palm oil. Used as a substitute for butter and fat.
Lithin-An alcoholic solution of camphor, acetic acid, ethereal onls and chloroform.
Levantin-Non-irritant coffec-substitute.
Lienuden-Preparation made from the spleen. Uised in leucemia, anemia, etc. Dose: 10 to 15 gm ., with meals. Liquor Adhesivus-Filmogen.
Liquar Cirnts Comp.-Dee Virol.
Lithium Bitartrate-Used in gout.

Lilhium Glierinophosshate-
$\mathrm{C}_{3} \mathrm{H}_{2} \mathrm{O}_{3}-\mathrm{PO}<\mathrm{OOLi}_{\mathrm{O}}^{\mathrm{OL}}$.
Dose: $0.5^{1} \mathrm{gm}$. sereral times a day in carbomated water.
Lithio Piperazint-A combination of pi. perazine and lithium. Uric-acial solvent.
Iychnol-s concentrated fluid extract of white soap-root.
Masnesium Glycerinophosphati-
$\mathrm{C}_{3} \mathrm{H}_{4} \mathrm{O}_{3}-\mathrm{PO}<\mathrm{O}_{\mathrm{O}}^{\mathrm{Mg}}$.
Mayncsium Permanganate-My (MnO $)$ . 6 H . O . Used instead of potassium permanganate. Disinfectant and deodorizer.
Malamirin-A homeropathic remedy obtained from grease, and :ecommended as a preventive against vatiola.
 $\mathrm{H}_{2}+\mathrm{H}_{2} \mathrm{O}$. Copyrighted name of acetophenomphencid. Antipyretic, analgesic. Dose : 0.5 gm .
Markasot-Bismuth borophenate. Bi., $\mathrm{O}_{3} \mathrm{~B}\left(\mathrm{C}_{41} \mathrm{H}_{3}\right)\left(\mathrm{CO}_{3}\right)+3 \mathrm{H}_{2} \mathrm{O}$. Substitute for iodoform.
Marmorekin-A new name for antistreptococcin.
Meditrim-A concentra:ed "electrorone," used in leucorrhoea and ocher female diseases. Germicide.
Medulladen-Preparation made from red bone-marrow. Used in pernicious anemia, chlorosis, and neurasthenia. lose: 6 to 9 gm . per day.
Mi/ol-Disguised castor oil.
Menthol-Phenol-Mixture of 1 part pheno and 3 parts menthol. Antiseptic and amalgesic.
Meriuric Silicofluoride $-\mathrm{HgSiF}_{6} . \mathrm{HgO}$. $3 \mathrm{H}_{2} \mathrm{O}$.
Merturous Silicofluoride $-1 \mathrm{Hg}_{2} \mathrm{SiF}_{8,2} \mathrm{H}_{2} \mathrm{O}$. Active antiseptic and bactericide for wounds, abscesses, etc. Applied in $1-1000$ solution or $1-2000$ ointment.
Jfirrosine-Mixture of menthol and acetic ether, used in migraine.
Mildiol-Misture of creosote and some mineral oil, used as a disinfectant.
Monol-Calcium permanganate. Used for sterilizing water. Disinfectant.
Morphine Stearate- $\mathrm{C}_{1}: \mathrm{H}_{1}, \mathrm{NO}_{31} \cdot \mathrm{C}_{3}$ : $\mathrm{H}_{3}: \mathrm{COOH}$.
Ahuctsoliene-Diphtheria germicide.
Wrusin-Proprietay cathartic, made from tamarinds.
Mydrol - Iodo-methyt-penyl-pyrazolin.
Non-poisonous mydriatic.
Myelen-An extract prepared from boti red and white fresh marrow. Used in scrofula, necrosis, lachitis, anemia, etc.
Naphthot-Bismuth - Orphol. Intestimal amiseptuc.
Nearalgin-Mixture of antifebrin, sodium salicylate, and caffeine. Antipyretic. Dose: 0.5 .1 gm .
Aervinum-A remedy for gout, rheumatism, migraine, neuralgia, and sciatica.


The Only Mechanically Correct Wheel on Earth $\qquad$


The greatest achievement in Cycle building was in getting the Chain and Sprocket between the Bearings.....


ONLY WHEEL MADE with Balls in Hubs of Cranks. 30 per cent. less pressure than any other Bicycle......

Chicago, 323 winbash Ave.
New York, 108 Fulton St.
Washimgton, D.C., Thomns Circle.

# WATSON'S Are warranted to give Immediate Relief COUGH 

What daxs sur friend or "'nevt dost' vay about the

## "ACTVIE"

## 

 sells where it is scent. 1 has it is ath artale hat xemires to be shown. Thue uho huy and


ENSIGN PUB. C0., St. Thomas, Ont.

## A DRUGGIST'S SPECIALTY.

Curtis \& Son's Yankee Brand Pure Spruce Gum

1- memilug with ilio miccerns Ifs hish qualitieq morlt.
A TRIAL ORDER SOLICITED CURTIS \& SON

PORTLAND, ME., U.S.A. Chanhate a asentofor the Maratine Promiter THE CANADIAN DRUG CO.. Lid.


## A PERFECT TEA



Forsale at Manufactarerv' Prices by the leading wbole sale drugrists and drugniws sundrymen thtwughour Canada.
Completo Illustratodirice Lixt tree on Anplleatlon

## "St. AUGUSTINE"

Registered at 9ttawa.

Our ". st. Maguabe (kejisered) is the perfer: wine for en mramion or buth.

 the semuine artink: sill kend articles are ounterforted. See that war name is win label atd wapule
(Gur "-st. Mwgatane" (lienciveted). of sîn samage, a choje swees, with wites. aod rqual s., imporsad wiom at dowhe the pme.
J. S. HAMILTON \& CO. BRANTFORD


## Auld Mucilage Cc.

Mantraciekhk of

All gnods
析
prominm Murilu!e libho!frems ard Gompositio:

Wкitк rok Qurais:-
MONTREAL, P-?
Wy, Auro Mam.


THE OLDEST - THE BEST
 Dominion!

WE ARE SELLING:

Common English, Right and Left, $\$ 3.80$ per dozen.


Hard Rubber, Reversible, \$15 per dozen.

NEW YORK ELASTIC:

Single Water Pad.
" Enamel Pad,
Doub Wate
Double Water Pad, - \$24 "
" Enamel Pad,
\$16

## ALLAN \& CO.

132 BAY ST , TORONTO

## BRAYLEY, SONS \& 60.

Wholesale Patent Medicines
43 and 45 WIllam Street, - MONTREAL
our specialities,
TURKISH DYES.
DR. WILSON'S HERBINE BITTERS.
Solo Proprictors of the following:
Duw's Sturgeon Oil Iiniment
Gray's Anodyne Liniment
Dr. Wilson's Artibilious pills Dr. Wilson's lech Ointment

Dr. Wilson's Sarsaparillian Elixir
French Masnetic Oil
on's Pulmonary Cherry balum
D.. Witoons Cramp and pall Re Wherm Stick Dr. Wilson's Dead Shot Worm Seicks Clark Derby's Condition Powders

Wrights Vermifuce $\underset{\text { Roberis Eye Water }}{ }$
Roberi's Eyc Water Hurd's Hair Vitaliser
Dr. Howard's Quinine Wine iron and Wine
Di. Howards Seet,

Strongit Mummer Cure

Nutrese - Sudium cascin. A nutritive posiessing the power of replacing lont mbogenas well as cansing the fomation of alhamms in gemeral.
Odel-a mount wash, comprosed of salol, satceharin, on of peppermme, and alcohol.
Onfarion--An organotherapeutic preparatom made trom the waries of cows and hes.
Orphot New name for bismath betamaphtholate.
Osuren-Colcinm salt of the fally acids of red bone marrow. L'sed in rachitis and osicomalacia. lose: 6 gm . dally.
Oiariin--. In organo therapueuc preparation made from the avares of cons. Lised in owrian affections. Dose: :
 lets.
Oararaten - An organo therapeatic preparation made from the otaries of cows. lone: 3 to 6 gm. daily.
 of athanin." Nutruse. Tisbe added to molk, particuarly for feeding infants. bed aho hypodermeally.
Oxith---A ace harated beef exernet.
 oxdation product of camphor. Lised III dyspues:a.
Oxyhenactin Satioutati--A.tipyrctie and anodyne.
Juftroithe-l semedy ured in external ese docases, equerally conjunctive, and comisting of boric ared, mercuric chboride. ame sulphate, and alycerin. Antrepte:
Pancridide-I'reparatuon made from the pancreas, used in dobetes meilitus. l)use: 10 to 15 gm . daily.
faraphav-linaster mass, consisting of caoucheur, lamelin, iesin, and wam dammar, spread on line thick ection wed.

 (Erhmocactus Williamsi I.mm). Hyp. notic. Dose (or budrochlorate): 0 of tu oorigur
firmin-subutute for marphine, similar to codeinc.
Pertasion-A saccharine evtract of thyme, aned in whooping-cough.
Phententifyrine-anipuretic used in typhoid, rheumatusm, and pmeumonia.
Phombin--A mixture of crude cresols and patash soap. Intisepte Used like ly:0.l.
 tiperiodec. local irritant. Hose: 0.1 0.2 gni., luat may be adsanced to 0.6 . OSgm.
Pilusine-Remedy for seasickness.
fincirime--Proprictary aromatic, autisej. tic, deodorizer, and non-poisonous disinfectant.
Parcisari- 1 proprietary temady for preventing erysipelas.

Praliat-A mistlice of soditum suphite, sor. dimm sulphate, sodhum chlorde, and sugar. Neat preserative.
Prostuden-l'separation make from the prostate ghomel, used in prostatic hypertrophy. Hare: $z$ gill dails.
Protugen i "methylene componad of albumin."
Proteta, -Remedy for colds and diph. theria.
Frobunditin-Bhological restotative.
Pu/momin-An organo-therapentic prepar. ation made from calves' lunsi, and used in pulmonary affections.
PuAR Livari-Sce Chinelin.
Prokhanin. Mirary-(compound of pyoktamin and mercury. lintseptic. Ap. plied in $1: 200$ solution, or with equal parts of starch.
 Parethonslphenylsuccinimide. Antipyretic. Dose: t to 3 sm . daily.
Prantin, Soluble-Sodium salt of parachaxylphenylsuccinamic acid. Antipretic. Dose: 1 to 3 :m. daily.
Prazole-Febrifuge cardiac stimulam, and stemachic tonic in nervons diseases.
Protigninc-An antipyrctic.
 $\mathrm{SO}_{4}, \mathrm{H}_{2} \mathrm{O}$. Antipyrctuc and anodyne. llose: 5 to 15 km .
()umatson--lmalgen.
(nuinind-Preparation for disguising the butterness of quinine.
(uinasiol-See Kresochin.
( $u$ unini Sulthinikfohuti-A combina. tion posesumg the combined properties of the romponemts, and is given in pill form.
Quinufurm-Chinoform.
Quiuntn-a"Tastelens Quinine." A mix. ture of cinchona alkalonds (prinripally cinchonidinc), accurring in granular masses coated with resin.
Remadin-l'reparation made from the kidner, used in chromic nephratis. hase : o to $S \mathrm{gm}$. daily.
Revacitin- $\lambda$ salt of oxphenl-acetic acid.
Rising - "Unguentam Kesinol." A proprietary ombment, used as an amipruritic, antiseptic, loralantipyretic, sedatuve, and skin nutrient.
fievircin Camphor-A maxture of resorcin and camphor.
Rhinelin-"Pulvis Listeri." Antiseptio, analgesic, and tonic:
Redicin-A mixture of oxalic acid. bydrichloric acid,and water, for remoting rust spots from linen.

## Rosinmid- Inticorrosive.

## Resiefint-Meat preservative.

Sajoraizin-A $=0$ per cent. solution of hitterless extract of cascara sagrada, wiht spirit of peppermint.
Salh fonme- Benaoymethylsalicylicether. Antiseptic.
Salial-A mixture of methyl alcohol saliuglic acid, oil, wintergreen, and water.

Sitliformia-Formin (Hesamethylenetetramine) salicylate. U'iceacid solvem, like formin.
Sahus-A bygienic, for rhematism and neuralgia.
Samhutin-An alcohrlic nuid extract of the bark of sambucus nisra. Diuretic.
Sanoform-C: H . $\mathrm{COOOCH}:$. I . OH. The methyl ether of di-iodo salieglic acid. Contains 62.7 per cent. of iodine. Nonpoisonous sia cative antioptic.
Scriptol-A concentrated ink extract.
Sculapint-A preparation of hydrastis and sculcap, used as a loeal astringent.
Seribiti-Tenifuge, comisting of seeds and root-bark of Connerus Africams lose: $6 e \mathrm{gm}$. in decout.
Solution Aluminum Ohith Ethoreal -Substitute for traumaticin.
Sphysmercuin - In organotherapentic preparation, made from the supraremal capsule.
Spinel-a licquid, saceharine eatract of young, fresh spinach leaves. l'sed in the spmach rure for children.
Splenin-An organo-iherapeutic preparation made from the spleen.
Stivisol-Saturated solution of formaldehyde gas in a milk sugar srolution. Antiseptic for imermal use. 1roce : 0.015-0.06 gun., mereasiag. Lised in tuberculo. sis, erysipehas, dibhtheria, etc.
Sthatara - . Imtiseptic for hypodernic treatment of hernia.
Sutpherine-"A preparation of some of the higher abphides of sodium and potassium whh suphur."
Sufravinadin-l'reparation made from the supraremal coprules, and used in Addison's disease, menophuse, ne urasthenia, and diabetes inspidus. hose: 1 to 1.5 gm. daily.
Zimbalhin-Modified tamin alhuminate. Lhtestimal astringent. lhose: $\ddagger$ gm. daily.
Tinnoform-Cond:nanion product of tamin and formaldehyde. $\mathrm{C}_{-1}, \mathrm{H}=, \mathrm{O}_{7} \ldots$ Sice ative antisepaic and anthendrote.
Tammonal-Tannicarid ester of creovote, conaining to per cemt, of creomste. An titubercular. Wose: $1 \mathrm{to}=\mathrm{zm}$. Phree times a day, in apmeous soluton.
Tistaden-Preparation made from the terticles of catule. Used in affechons of the spimal cord, and in nerorills troubles. llase: 6 to i gm. daty.
Tesidist-An alcoholic extract prepared from the testes of catile.
Testin-An organo thetopeutir preparation made from the testes of catele.
Titrathommoniam-sian N $\left(\mathrm{C}_{5} \mathrm{H}_{3}\right)_{4}$
 silven.
Theshomize Sratoviati-True salt. C:H, $\mathrm{N}_{4} \mathrm{O}_{2}$. $\mathrm{COO} . \mathrm{C}_{6} \mathrm{H}_{3} \mathrm{OH}$. Stahle diure tic.
Thyradien-lacinse trituration of dricd cxtrace thyroid gland, 1 gare representmg two parts fresh gland. Nheratie of
myxedema, cretinivm, stuma, and cer.
 1.5 sim. per dis.

Thımondin-sce Iodothyrn.
Tictunit - Find-jreservatuce, componed (hisfly of sudima bisulphite.
Tjlohkorine-. In emetic.
 sivtms of solid paration, lamolin, and lipund farathon.
Cin:uentum. Woth- Omment base, consist. mest solsd paration, lanolin, and lupud [birattin.
 composed oi chryarohio, chisjol, and amosidin oinment.
Cibet, far - C're acill solvent. Hone: 0.5 (1) 2 gnt

Criontin-. 1 compound of urea and hahanm carate. Lificacid solient and dureinc. Inse: a gm. (?) every three hours in carhomated water.
Ïr:l-I inpuor Carms Comp. A substitute for codiliver wil and representing the elitet consibutents of meat.
lithsen-d surgical dressums to be used incisad of ioduform. Aneplic, antisentuc, deodorizer, sermmede. and nontuxic, inodurous disinfectant.
Nirifirm - Sjnonym of tribromphenollunauah.
 chlinal.
Zomadinne-lropretary antuyrctic and amal!心ic.
Zome idin- 1 minture of various antisep-
 Regirts.

## New Ideas.

## 

In ingenin, fowder-medure has been dutisad, and is sold lis Keyi, of l)revene. It cumsists of a metal spoun with a long,

$\square^{\text {marrowlwowl, }}$ the copacity of wh: b can lu rewniated by slibing a metal stop backware? or forwards. Thes sipplasies over a scale near the handle of the quons, and can be fined at any puint by a srew. I small sity ot secel picnes oner the fomb, retumang on ats nopmal prosition by a yruns. Havang been ardjunded for the quantioy required, the -penon w dipied min the purder, the execos remoned by the sicel shy, and the
 on withe fapr. The ajphratus appeared (0) amwer hevter for atoh drugs as amipyrm than for those that have a iendenry io amplomerate, as for motance, gundered rhul.arb.

firt the antumatio frejaration and naaration wh lase quantites of simple syrup

of Strashung, erommends his cylindr:callilter. The apparatus, which is constructed of enamelled uron, consists of an upher container, with pertor. ated sides and botom, a filterng medium 1 , and a receiver, $U$. The up per contaner is filled whon sugar ; mo the lower water is introduced until at reaches the sugar Solution at once commences, and the syrup formed falls to the botom of $U$, passing through the fiter $F$ in ins course, and can be drawn off from the tap K, as soon as the correct demity has been reached. lirella sugar and more. water can he introduced into () anc C $^{-}$ respectively, as regured.

## Cuntuenr mini.

At the recent exhihition of phamaceunical apparatus in Dresden, Mesurs. lieInat, of Chemnite, exhibited an ointment mill, whel appeared to meet with the approval of many (ierman pharmacists. The working of the apparatus will be in-

telligible from the illustration. The ointment is fed into the tall cylinder and prowed lay weghts ower a bume cone on io the grindines surfare. ins it issues from the mill it is seraped off by the seraper and dedivered from the spout into a vecsel plared to receive it.--The Jharmacutial finirnal.

Vinanm - An Finghsh manufacturer hats plared an nintment base and oils ugon the market umber this mame, consistung of maxures of hydrocarbons, im. pregnated with oxysen. They have a very marked solvent effeck on varmus medicaments and form emulsions with water.

## Pharmaceutical Notes.

Cemommansol. - A new pharmacen tical met od for "exhibiting" creosote has been devised by Romeger and lestevin, wheh presents many advantages in prejaring that substance in the form of pills. Creso magnesol is prepared as follows: Twenty parts of caustie potash are disouled in ten parts of water in a porechain motar. To this are gradually added and emulstied soo parts of beech creosote, and finally 170 pats of frenbly-calcined magnesia are worked on. The mass left at ordmary temperatures gradually. deepens in color, and at the end of thirssix hours is of gerd pulalar connsience. Later it sets, so that it may be readily. powdered, and in this powdered form is casily maned mot pills wha a litte honey: This powder contans so per cont. of creosote: a convenient pill is one contan. inty 10 centigrammes of creso ma;nesol. lith pare guaiacol, using only io per cent. of magnesia and potash together, a pulvembent mass is speedily cobtaned. which comains no per cent. of guancol. -I'Čuin Pharmaciut. : Pharmatautial fournal.

Ont of Eis: Yobin.-This oil, sometimes ordered on the comtinemt as an ingredient in ombments for chill, hans, cracked nipples, and hemorrhoids, is extracted from hardhoiled eges by heat and presure. It is limpid when warm, becoming aurbid on coaling, with deposition of a sem-cry tallue sedmem containing, acording to l.ecann, a cholesterin fusmg at $1.45^{\text {C }}$. The demity of eas oil at 20 C. i. . 915 , it solidities at $S$ to $10^{\circ \prime} \mathrm{C}$., is soluble in ether, inombale in alcohol, its sapmiticution amber is 155.2 to 156.7, and the iodine number $\mathrm{Si}_{1} 21$ io Sis bo. Color reactoms are difin alt in rend owing to the imtence yellow him of
 ait)-Pharmacutical /amrmal.
 -In the Amatrat. . H. Allen direces attention to the divergent behavior of the salts of qumiae with inorgmic acids towards methyl orange. Thus the ordinar; sulphate of quinine of commerce comaiaing two molecules of the hase to one of the arod, althemph practically acural to brazihword, rochane.al, and iogwood, is strongly alkaline to methyt oranges The paint of neutrality when titratins' quinine with the first-maned indirators is thas reached when the nemeral sulphate is formed; but with methyl orange not ur. til the acid sulphate results.

Byonon Dest. - Dactor Muller, of Vicuna, has recemty discovered a constituent of the blood which has been desig. nated hemokonia (blood dust), and desrribed as linating particles resembling fat slohules. They are one-swenty-fivethousandth of an inch in diameter, unaffected by osmic acid, and invested with: prwer of motion.
... Canadian Druggists'...
-- Exchange -.
Opened and conducted for the convenience, protection, and interests of Canadian Druggists who wish to dispose of their Drug Stocks, and for those who wish to be safely piioted into a lucrative and inviting Drug

business.

$\longleftrightarrow T$AVING for some years conducted the office for the sale of Physicians' Practices, etc., etc., and having frequently been requested to secure Drug Stores for Physicians, and, also, by Druggists to dispose of their Stocks, I have decided to open an

## Exchange for the Sale and Purchase of Drug Stocks

Our past experience in Medical Exchange, together with our business association, places us in a position to secure you a sale more quickly than by all other means combined.

We handle no business unless upon the fullest information, for which blanks will be furnished free
Purchasers may obtain full and reliable information free, as soon as their desires and financial ability is furnished us.

Our aim will ve to bring together Men who wish to Buy with Men who wish to Sell, and, having full data of each, enables us to do so with much certainty of a sale being made.

Vendors and Purchasers are invited to correspond with us for fuller information.
Look out for this page in next issue
$\leftrightarrows$ Letters must be direct from Druggists, and must enclose stamp for reply, otherwise they will remain unnoticed. Address,

## 

[^0]No. 4-Is a city store. Stock about $\$ 2,000$. Has bianch yost office worth $\$ 400$ per yeat. Proprictor in ill.health. Wiil scli for $\$ 3.500$, or 75 ser cent. of invoice if ken right away:
No. 5-is a srock of $\$ 2,500$ in Michipan sown of 8.000 people; 4 other stores only. Daily averane, $\$ 14$. No dead stock. I'rice, go per cent. of invoice. Iroprictor will his succervor.
No. 6-Is an inguity from a physician to obtain a sood paying store, is cisher ilamilion, London, liranaford, or some westem city, where an office practice can be arrited on with store. Will f.y a good cash price for the rifbt thing.
Nos. 7, 8, nnd 9 have not furnished sufficient details, and must be carried over
co next isuc, if not previsualy sold.

The products of our laboratory are unsurpassed
for Purity，Quality，and Uniformity．．．

## 011 <br> Ftromatic Cascara $\mathfrak{F} \mathcal{S}$ 亿II）．

Is undoubtedly one of the finest and most reliable preparations of this valuable drug which has ever been manfactured．One minim represents 3 yrains of choice Cascara bark．

Our Other Specialties：

Jitter Cascata Witalic Iloppophosphites Elpodene，etc．


Our line of Perfumes and Toilet $A_{i}$ ticles have proved to be the best selling and most satisfaciory handled by the drug trade during the past year．

 SPECIAL ODORS R：S
Spec．al Violet
Eermuda Lilies
Feau d＇Espagne Mo．Ko．Ka Etc．，Eic．

We want your trade for 1897 옹

シ8＊ Cole supply the ．Trug Trade ©nlo．．．

Out trabellets are on the road

TOILET GOODS
ค，
Hygienc Vegetable Extract
偖 French Lilac
靠 Amond Cram ${ }^{\text {Rose }}$
Orange Blossom
Crab Apple Lavender Lilac


康

# The Scott \＆Macmillan Co．，Ltd． 14 and 16 Mineing Lane，Toronto 

## Photographic Notes

## Amateur Photographs.

Cameras and accessorics are a popular side-line for pharmacists in many places. Whether cameras are sold or not, an attractive display mar be secured wih the aid of amateur photographs. It will be a companatively easy enatter to borrow? number of photographs showing familiar

Colmonme.--This is simply a paste made by treating starch with water rendered strongly alkaline, whereby the sub. stance is rendered soluble.

(1) 1)extrin....... ......... 50 ..90 part.

| Alum | 4 |  |
| :---: | :---: | :---: |
| Sugar.. | 75 |  |
| Waler. | 130 | / |
| Cabolic acidmolution, $10^{\prime \prime}$ | 00 | $\cdots$ |

Mix.


Sunsot on Great South Bay.
faces and scenes. Picures of local interest always seem to make amateur photo. graphy more attractive. It does not seem to be surrounded by so much mystery or hedged in by so many little difficulties when one shows the work of home amateurs. A display of this kind may be made with cameras, or to promote the sale of the various chemicals and solutions that are used in the processes of developing, fixing, and toning.-Merck's Report.

> (2) Gum arabic. ................... $\frac{4}{5}$ parts.
> Water:..
> Gljecrin 1
> Nemtal spirit.................... ${ }_{3}$
Mix.

Dissolve the alumiaum sulphate in a small portion of the water, and the gum arabic in the rest, and mix the solutions.

## Combined Toning and Fixing Bath

Dr. Vogel recommends the following combined bath as of special value for aristo and gelatine papers; it will keep and may be used repeatedly (after filtration) until exhausted:

| illed | $400 \mathrm{c.cm}$ |
| :---: | :---: |
| Uyposulphite of soda..... | 100 g. |
| Sulphocyanide of ammonium. | 11 g . |
| Acerate of lead | 4 |
| powdered alu |  |
| Citric acid | 3 |
| Nitrate of lead | 48 |

This solution is allowed to stand for some days; it is then filtered and mixed with a solution of chloride of gold ( 1 to 100) 25 ccm .
The prints are toned until they assume the desired color.

Dr. Liesegang recommends the follow. ing formula:

| Gater | 800 g . |
| :---: | :---: |
| Hypesalphite of soda. | 200 g. |
| Sulphocyanide of ammonium.. | 25 g . |
| . cectate of sodium | 15 g . |
| Saturated solution of alum. | 50 g . |

A few cuttings of unfixed paper are phaced in the solution and left to settle a few days; it is then filtered and completerl wh

| Chloride of gold............... $\quad 1 \mathrm{~g}$.Chloride of ammonium. |  |
| :---: | :---: |
|  |  |
|  |  |
|  |  |
|  |  |

Sulphocyanate toning baths are, according to Edward Valenta, largely used in Europe to tone aristotypes, as they work evenly, and give all gradations of tone from a violet purple to a dark blue black. Following is one of the best-known formuke :
I.

| Fused Chlori$t o$ |
| :---: |
|  |  |
|  |  |

II.

Distillod water . . . . . . . . . . . 1000 c.cm.
Sulphocyanate of ammanism 40 g .
Chioride of gold solution (I (0 10).
$100 \mathrm{c.cm}$
These stock solutions keep for a long lime, if well corked, but should not be until twenty four hours after mixing:

A somewhat similar formula to the above is recommended by one of the leading specialists on account of its hardening action upon the collodion films.
I.


Packing Plates.-According to Colson, the best paper in which to pack sensitive plates is obtained by soaking it in a three per cent. solution of potassium bichromate to which some gum arabic has been added, exposing thoroughly to light and then washing till all trace of bichromate is washed out. Such a paper is impermeable to damp or gases of all kinds.

Triticene. - This is a paste made of dextrin and starch, in equal parts, in water, the starch being made soluble by heat. A little glycerin is added to make the paste pliable and elastic when dry, and a little boric acid or thymol, or both, to prevent fermentation.

## Water Colors for Photographers.

Artists who wish to prepare their own colors for tinting photographs, whether albumen, aristotype, or gelatiae, will find that the so-called albumen culors will give the best results. The more perma. nent dry pigments are cobalt, Prussian blue, smalt blue, starch blue, cadmium yellow, yellow ochre, Roman ochre, verde green, Manchester yellow, Indian red, amber, burnt siemna, India ink.

## An Improvised Focusing Screen.

## Hy E: Whaber.

In the course of one's travels it is almost a certainty that sooner or later the: ground-glass screen will get broken, and of course it always breaks in some out-of. the-way place where a new one camot be obtained. There are several ways to get out of this difficulty which should be remembered by every tourist photographer, as the inowings hoze will save much disappointment at such a critual tims.

Every tourist photographer is presumably supplied with phates and hypo, and perhaps a little bichloride of mercury for intensification. Taking it for granted, then, that these articles are on hand, one need no more regret the breaking of a ground-glass sereen than the loss of a dime : for a thoroughly excellemt glass can be made at short :otice and small cost. The best screen I know of, hetter by far than any tine ground glass 1 ever purchased, is made by the following method: Take a plate from the box, and after exposing it a second to the daylight simply immerse it in hypo till thoroughly lixed. After fixing is complete, wash it well so that all traces of hypo are removed. Prepare a solution of mercury bichloride of any strength, and proceed to bleach the plate until it acquires a milky white tint. 'This will occur rapidly if the mercury solution is a strong one, but not so soon if not. At any rate the plate wili bleach, souner or later, in the solution, be it strong or weak. When well bleached, all that remains to do is to wash well and
dry on edge, and you have jour screen. Fior tine focusing, such as copsing or micro-photography, I have never seen the equal of a screen so prepared, while for dark interiors this sereen is indispensable after once tried. A clear glass hole call teadily be made in the centre, if one cares to use an eye-piece for extra sharp focus. mg ; indeed, the eye-piece can be permanently attached by using Canada balsam, thus insuring a double certainty of sharp tocus.
A very good screen can also be quickly made if one provides a bottle of ground. ghass varnish before starting on a trip. By immersing a plate of the size desired in hot water, the gelatine can be readily melted off, and, after polishing with tissue paper, it can be flowed with the abovementioned ground.glass varnish, which will set in two minutes, and afford a very inar substitute for the genume glass.
On a pinch, one can use a piece of greased or wased white iesue paper, tightly stretched over the back frame, and I've no doubt :ivere are a dozen more ways, but l've tried only the above-mentioned methods. Ground glass 1 use no more. My bleached plate is a source of perfect satisfaction and contemt to me, and I advise all to try one. - The Photo. American.

## Gleanings.

## Pharmaceutical Snaps.

A. H. Riise is a pharmacie: who should not find fauit with his iot, for on '". whole island of St. Thomas, with a population of 15,000 , he is the only lucky individual whom the lanish Govermment allows to roll pills and diepense cod-liver oil emulsions. Surely Herr Riise has a "smap," in the drug tade. The hitle island of Heligcland, on the German coast, also supports but a single apothe-cary.-Western Drusisist.

## To Prevent Windows from Frosting.

If the mosture in the storeroom is not too great, the frosting can be avoided by painting the glass wath a solution of glycerin in sixty-three per cent. alcohol. (ilycerin, like chloride of lime, has the propert; of absorbing water, and this action overcomes the difficulty. For small show windows sulphuric acid may be employed, as is done in Russia. This, however, is only efifeacious where the windows are double. The cracks between the two window frames and around the edge are kept tightly sealed, and several small vessels half filled with concentrated sulphuric acid are left in the space between the plates of glass. But the sim. plest and best cure of all for frosting windows is to have a small electric fan playug near it continuously. The air is thus kept in motion, and there is no chance for the frost to settle on the glass. -M.B.D.

## Preservation of Tincture Iodino.

Albert Sapin saye that it is useless to keep tincture of iodine in the dark, as his numerous experiments have shown that a tuncture of iodine exposed to sunlight lost within a year about s.wenteen per cent. of its free iodine (as ethyl iodine, 1. .jdriodic acid, etc.), while the loss in the dark amounted to about twenty per cent. The influence of temperature is wholly unim. portant, but it is very necessary that the purest possible alcohol be used. From these results and from observations made by others, it is unadvisable to make up large quantities of the tincture at once, and the provision of the German pharmacopocia that not more than five per cent. loss of the original iodine is permissible is a wise one.-Jour. de Chim. et de Pharm.

## A Very Ancient Prescription.

A French medical paper prints what is believed to be the oldest known medical recipe. It is a tonic for the hair and its date is 4,000 B.C. It was prepared for an Egyptian queen, and required dogs' paws and asses' hoofs to be boiled with dates in oil. The modern hair restorer requires asses' heads. - Medical Remrd.

## Tropacocalne as a Substitute for Cocaine.

O: the grounds that tropacocaine is less than half as toxic as cocaine, while the anosthesia it produces is as rapid and mere lasting, Vamossy proposes to sub. stitute the former for the latter in medical practice. He observes that tropacocaine gives rise to little or no mydriasis when employed in the eye. For general use he prescribes the following solution: Chlor hydrate of tropacocaine, 30 centigrammes; sodum chloride, 6 centigrammes; distilled water, 10 grammes.-Real. de Theris. Med. Chirurg.

## Commercial.

A marked rise in the price of bristles in Europe has caused an advance in the price of all kinds of brushes, and this is liable to be followed by another advance.

The acreage of peppermint in Wayne County, N.Y., was unusually small the past season. Low prices for oil have discouraged gro rs, and the total yield for 1896 is reponed to be not more than 60,000 pounds of oil, as compared to 150,000 prior to five or six years ago. Ten years ago about 3,000 pounds of winterareen oil were distilled annually at Lyons, the supply of leaves coming from Connecticut. This year not more than 50 pounds were produced. Oil of sweet birch and the symetic product has largely displaced true oil of wintergreen.

## Photographic Apparatus

## and Supplies



$\theta$
Can extend their business by catering for the trade of the druggist who deals in these lines, and also the druggist and drug clerk who is an amateur photographer.


RATES QUOTED ON APELICATION.

## A Perfect Toilet Gem.

©
(O) ZA, (0)
© Freca
©
踣
©
©
〇-
(110oth Paste
©

The drug trade of Canada will fond this one of the most satisfactory articles on the market. The package is convenient and attractive.

Kindly make sure the Areca Nut Tooth Paste offered you is made in Winnureg. The genuine is for sale by

> Lyman Bros. א: Cu., Turonto.
> Elitiot \& Co., Totonto.
> Evans \& Sons, Mfonereal.
> Lyman, Knox \& Co., Montreal
> I.yman, Sons \& Co., Montreal.

> Kerry, Watmon \& Co., Montreal.
> J. Winer \& Co., Hamilton.
> J. A. Kenneds \& Co., T.ondon, and by

## Gray's

## CASTOR-FLUID

 For the hair.DENTAL PEARLINE
An excellent antiseptic tooth wash.
SULPHUR PASTILLES
For burning in diphtheritic casea
SAPOMACEOUS DENTIERICE
An excellent antiseptic dentifrice.

## These Specialties

All of which have been well advertised, more particularly the "Castor-Fluid," may be obtained at all the wholesale bouses at Manufacturer's price.

## HENRY R. GRAY

 ESTABLISHED 1859.Pharmaceutical Chemist
22 St. Lawrence Main Strest (Cor. of Lagauchatiere)
MONTREAL


CANADIAN BRANCH:
6 and 8 Adelaide St. W., Toronto. P. R. Whiger, Proprietor.

## Toronto Show Case Gompany

Manufacturers of Show Cases ...

## Wall Cases ....

 Drugdists' Fitting gs Mirrors, eîc. . .

We carry THE LARGEST STOCK of any house IN THE DOMINION, athi duarames erest article Wh the antinfation of the puralinerrs.
$\sigma$
SEND FOR CATALOGUE

Designs Free of Charge.

56 ADELAID ST. W., and $125-127$ BAY ST., TORONTO, ONT.


## C. Schack \& Co....



Cholce Designs in Cherry, oak. walnur and imahogany.


FIRST-CLASS WORKMANSHIP. LOWEST PRICES.

Special Attention Given to Fitting Drug Stores

| Essimates and Desizro Fumished on Appliciaion. | 552-554 Yonge Street, - - TORONT0 |
| :---: | :---: |
| LONDON | W CASE INRKS |



SHOP FIXTURES - COUNTERS * TABLES * SHELVING * MIRRORS, Etc. $\frac{\text { Send for Catabarue }}{\text { and Price List }}$

## 237 King Street,

LONDON, ON'N.

## Awnings

 $W^{\text {ano }}$ indowEhades
 Houses, foffics, AHD STORES
Made is experienced workmen, and ar the best materials, at prices arlow as is consistent with yood work atud materials.
ESTIMATES EURNISHED.
Wm. Bartlett, 16 Aclelaide . West, TOIRUN'O.

THE UNVERSAL CI ANDALL


## Just Out

## 8

Whiting 1t. Sight Inthrchangeadle Tyirs. TERVAVENT AllGNMRAT.

THE LATEST IMPROVEMENTS! What more can you ask ? Write for catalozue.
'MLIE CHEANDAI. MAACHENE CO. GROTON, N. M .

## MINARD'S LKIMM of PAMP INIM <br> Sold from Mralifax to Victoria

HALIFAX\{ Brown \& Webb Ey Simson Bres, \& Ca ST. JOHN-T. B. Barher \& Sons. Yarmoutillc. C. michards \& Co.
montreal $\left\{\begin{array}{l}\text { Kerry. Waison \& Co. Lyman Suns } 2 \text { Co. } \\ \text { Evans Sons \& Co. Iyman, Knox \& }\end{array}\right.$ ingenl Evans Sons \& Co. Lyman, Knox \& Co. KINGSTON-Henry Skinner \& Ca.
TORONTO $\left\{\begin{array}{l}\text { I.jman Bros.\& Co. Evans Sus } \mathrm{A} \text { Co. }\end{array}\right.$
 HAMILTON-Archdale Wison \& Co. J. Winer \& Co. LONDON-I_ondon Drug Co. Jas A. Kennedy \& Ca. WINHIPEG-Martin, Bole \& WYnne Co. NEW WESTMINSTER-D. S. Curtis \& Ca victoria-laogley a Co.
QUEBEC. - W, Hrunet et Cie.
ST. JOHN - Canadian Drug CJ. S. McDia mid \& Co PRESCOTT.-T. W. Chamberlain \& Co. MONTREAL,-IIuden, Huber \& Co.

## Formulary.

TOOTA bownit.
Dr. N. R. Morton, sen., recently pre sented to the Stomatulogical Club the following formula for a tooth nowder of his own composition, which he claims is non-injurious to the enamel:


- Pacific Slomatolusiaal Gasithe.

A SOLUTION fOK STOMPDG FAl.LING of THE HAIR.

IIjdrochlorate of quinine.. I drachon
Tannic acid..... .. .. 2 drachuns.
Aliohol, 70 per cent...... 1 t! pints.
Tincture of cantharides... 2 ! dracims.
['ure glycerin............. $1!$ ounces.
Cologne water .......... to drachms.
Vanillin ................ 2 grains.
Pulverized sandalwood. . I drachm.
After being weil mixed and shaken, allow to stand for four days, and then filter. To be rublesd into the scalp daily.
-Rénuc di Thérapettiguc Midioo.Chir. ursiad.

AN ANTASEPTIC WASH FOR THE MOUTH.
The Presse Midiali cominins the fol. lowing formula:
1R. Thymol
. . . . .
gr. iv.
Benzoic acid.... ......... gr. Vl.
Tincture of eucalyptus . . . . . . gr. cexis
Evsence of peppermint ....... gr. lx.
Chlorolorm. . .......................... $x$.
Aicohol........ .......... $\frac{3}{3}$ iij.
M. Twenty drops of this solution in a glase of water may be used at a time.

LIQUID RENOVATOK FOK ENAMELLEU LK:ITIIRR.
Ingredients:
4 parts of parainis oil,
$t$ part of oil of lavender,
1 " essence of citronelle.
2 parts spirits of ammonia.
Nethod of preparation : Mix all together, and shake the bottle well before using, laying on a conting with a sponge, and polishing with a soft cloth or leather afterwards.

## TO RENDER FIBRICS FIREPROOF.

In a handlook published by the Pacific Coast Borax Co., the following is recommended: Take of ammonium sulphate, 8 parts; ammonium carbonate, $21 / 2$ parts; borax, 2 parts; boracic acid, 3 parts; starci, 2 paits; water, 100 parts. Impregnate the fabric with the solution, dry and tron. For paper, omit the ammonum carbonate and starch.

## (iIOVE Cr.EANSER.

White Castile shap, too; dissolved with gentle heat in water, 30 ; then add sodium hyposulphite, 30 ; liquid ammo. sia, so. Mix.
syrup of cal.cium giscerobinosmates.
Glycerophosphate of calcium, 10 ; citric acid, 1 ; distilled water, 340 ; loaf sugar, 610 parts. Dissolve cold by shaking. A tablespoonful for a dose three times a day.

PASTILLES OF CALCIUM GLPCEROPHOSPHATE.
(ilycerophosphate of calcum, 10 to 15 centigrammes; cacao butter, so centigrammes. For one pastille. One such to be taken four times daily.-Nous. Rim. ; Phar. Four

## Loretin.

Eugene Dieterich (Phur. Centh.) calls attention to this most important of antiseptics, it being, in fact, the only one of many proposed which fulfils all the requirements of iodoform, and jet being free from the defects of the latter. According to the authorities quoted, loretin is entirely non-poisonous, is non-irritating, entirely inodorous, bighly antiseptic, is not absorbed, and is stable even when heated to $180^{\circ} \mathrm{C}$. All authorties agree to the fact that in loretin a superior sulbstitute for iodoform has been found. Among the various formula offered the following have been selected:


Twenty grammes crystalline calcium chloride are dissolved in 1,460 grammes of distilled water; with this $\mathrm{I}, 000$ grammes of sterilized gauze are impregnated and expressed till the moist mass weighs 2,250 grammes. This is then siowly drawn through a neu'ral solution of sodiun loretinate which h. been freshly prepared by adding 60 parts of loretin to a
solution of 9 parts of calcined sodium carbonate in 1,000 parts of distilled water, which has been warmed to about $60^{\circ} \mathrm{C}$. The gauze is then pressed and dried.

## IORICIN IUUSING POWDERS.

(a) Loretin. ...... . ............. 50
(b) Loretin .... ............. ....... 30
lime talc............................ . . . . 70
(c) Humuth loretinate. .......... .... to

Zinc ovide............................. to
Buric acte (line powdered) ......... 10
LOREDJN ANTISEPrIC sOLUTION.
Parts.
l.oretin. . . .. .......... .. 1 to 2

Distilled water............... . . . . 1,000
Used for washing aboce-acs, wounds, etc. For all purpones where carbolated water or a solution of corrosive sublimate is indicated.
L.ORELIN SUPPOATTORIES.


Make into filty supmositories.
nINTMENT OF LORETIN.
Ten ler Cent.

|  | Patts. |
| :---: | :---: |
|  |  |
|  |  |
|  |  |

## To Clean Bronze Articles.

According to the Antiquitaten Zeitung, articles of bronze are best cleaned by the use of a paste made of powdered chickory and water. The paste is spread over the bronte and rubbed well over the surface by means of a stiff brush (an old stiff tooth brush will answer), and then allowed to dry on the article. After drying rinse off the powder with running water, and dry in the sun. Wiping off with an oiled rag will improve the looks of modern bronzes.

Mr. Francis U. Kahle, whose advertisement appears in amother part of this jourmal, has established a laboratory and office at 127 Bay strect, Moronto. Mr. Kahle is an old druggist. He is a graduate of the Ohio Unversity, and also holds honorary certificates from the universities of Berlin and Paris. Mr. Kable is mak. ing a specially of Ransom's Have Syrup and Trask's Magnetic Ointment, and the advertisements that he is getting out are very handsome and attractive, and the druggist who writes to him for this special offer will not regret it. He is very much interested, as well as his concern, $D$. Ransom, Son \& Company, in protecting the retaile: against the departmental stores. 'I'hese preparations have been on the market for a great many years, and are known as standard and trustworthy remedies. It is such preparations as these, established a century ago, that bave sold year in and year out, that the druggist knowing their merits should have continually on hand.

# The Science of Optics. 

By LIONEI. IAURANCE:
Untered ascording to dit of larliament in the year $18 \%$ by lionel l.aurance, at the Depatument of Agriculture.

## Primary Ametropia.

This is the cause of the Asthenopha, the painful symptoms in H. "ro find the quantity of Ac. employed at any given distance by a Hyperope you divide the distance into 40 , that gives the normal Ac. for the divergence of the rays, and then you must add the number of D. of the H. For instance, at 13 inches a Hyperope of 4 D . employs 7 D . of Ac. because $40 \div 13=3$ D., the normal Ac. for that distance, and 31$)+4$ D. for the $H$. makes 7 D. in all.

Thus it is that while the amplitude of Ac. in H . is, according to age, the same as it is in Eln., the range of Ac. is dis placed, and both the P.R. and the P.P. are further from the eyes. The P.R. 11 H. is said to be beyond , because there is no point within , that can be seen by the Hyperope without using Ac. The P.P. is more remote according to the extent of the defect, and is found by deducting from the normal amplitude the No. of D . of H . and dividing the difference into 40 . Thus at $3^{c}$ years of age the normal amplitude is 7 D. and the P.P. of a Hyperope of 3 D. at that age would be $(7-3=4, \quad 40 \div 4-10)$, at so inches instead of at $5 \frac{1 / 2}{}$ inches, as it would be in Em.

The condition of the Hyperope as regards his Ac. tesembles that of the old sighted person; he has less Ac. that he can exert for near objects than the Em metrope. In H. of, say, 2 D. the reserve quantity of Ac. that can be used between 20 feet, which is the nearest point from which rays are parallel and the P.P., is

| At | 10 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | 20 | - | " |  | 8 |
| " | 30 | - | - |  |  |
|  | 40 | - | " |  |  |
|  | 50 |  |  |  |  |

If the H . be of 1 D . there would be available for close work an amplituce of 1 D. more than these figures at any age. If the H. be of 3 D . there would be 1 D . less, and so on. In every case as much less than in Em. as there are D.'s of H.

The P.P. of the Hyperope is further away than that of the Emmetrope. At twenty jears of age the amplitude being 10 D.

In Em. the F.P. is at 4 inches.
In H. : D. the P.P. is at $4 \frac{1}{2}$ mohes.

| . | 2 D . | " | " | 5 | * |
| :---: | :---: | :---: | :---: | :---: | :---: |
| " | 3 D. | " | " | 51/2 | " |
| " | 4 D . | - | " | $61 / 2$ | " |
| " | 5 D . | -• | " | S | " |
| " | 6 D | " | . | 10 | .. |
| * | 7 D. | " | " | 13 | " |
| " | 8 D. | " |  | 20 |  |

The above figures are, according to the method explained, found by deducting the degree of H. from the amplitude and
then dividing the avaibable balance into fo. Of course when younger the $l^{\prime}$.l's. is nearer. and when older it is farther away than the above distarces, as in Em. If the question of the de. be understood there should be no dificulty in also understanding why H. is disregarded in the majority of cases during early life, and becomes very noticeable later.

Ac. can be exerted to a slight extent in excess of the Con. without causing Asthenovia; therefore, when the H. is of slight degree, say, 0.50 or 111 , the amount of Ac. necessary for making $V$. normal can be employed without trouble, especially when the person is young, the distant l'. being $=0 \%$. H. of greater extent the person learns to disassociate the two functions, and can employ de. in excess of Con. without any excessive pain, say, where the H . is of 1.50 to 3.00 D ., and in these cases also V. is found -

In other cases the connection is kept up in medium degrees of H., say, 1.50 D. to 3 or 4 D. V. is defective for dis. tance, and worse still for close work, and there is intense asthenopia. Women complain of headaches at the side of the eyes because the external recti are strained to prevent the eyes converging to points closer than those for which they are accommodated or for whel they try to accommodate. There are also headaches over the brows caused by the efforts of the chilay to contract sufficiently for vision of small objects.

In H. of high degree, say, over 5 or 6 D., the sight is so very defective that no attempt is made to see clearly either at a distance or close by. The Hyperope resigns himself to this state of affairs as if he were myopic, and, like the Myope, he will bring prmt up close to the eyes, where, being under a larger visual angle, it may be legible, whereas further away it is not. By bringing things nearer to the eyes it is true that the Hyperope sacerfices defintion for a larger retinal image, but as the definitoon is extremely defective at any distance be gains somewhat. Such a person thinks himself, and is considered by his friends, near-sghted on account of his defective vision, and the fact that he reads with the book close to his eyes. The fact that he can see through a C . lens immediately dispels this illusion. As a rule, people like thas suffer less pain than those with a minor degree of $H$. They often read at their P.i'., or even considerably within it. Still another class of Hyperopes are those who find out that by accommodating to a certain extent they can obtain clear vision, but who have not learn: to disassociate Con. and Ac.; either they cannot do so, or they also discover that by not doing so they obtain clear vision with less effort; in other
words, that by converging to, say, 20 in ., and so exerting 2 M. A., they can, with greater ease, accommodate 21 , and so obtain perfect distant sight. These are the people who squint. At the start, when the eyes are converged to a nearer point than that for which they are accommodating, the retinal images fall on parts of the setinat of the two eyes which do not correspond, so that two ubjects are seen instead of one, and both are rather indistinct, because the im.ges do not lie on the Macule. The Hyperope, however, soon instinctively learns that by turning both eyes either to the right or the left the necessary Con. and Ac. is still exerted, and one image will fall then on a part of the retina of the one eye that is still less sensitive to the impression of light rays so that that image is barely seen at all, while the other now will fall on the Macula, and be sharp and distinct ; thus he attains a double gain, he does away whth the diplopia and sees more clearly.

This habit soon becomes constant, and convergent strabismus is established. At first the squint is only periodic, that is, it occurs when the external recti are too tired to prevent the ejes from converging, or when the ciliary is too fatigued to accommodate sufficiently without converg. ing excessively. Later, the squint may become constant, the eyes being continuously conversed, and each alternately used for $V$; this is alternating strabismus. Still later the Hyperope will discover that one eye gives rather better vision than the other, and so this one only will be employed for vision, the other being constantly turned in towards the nose, and the constant alternating squint gives place to the constant monolateral or one-sided squint. The eye that is deviated inwards is nerer employed in the act of vision, and from non-use soon loses the retinal perceptive faculty and becomes Amblyopic (of dulled sight), and, in time, perfectly useless.
The internal recti from being constantly used become excessively developed and exceed the external recti in strength to such an extent that the eyes cannot be straightened at all.

Those who squint are generally Hyperopes of from: D. to 3 D . When the error is less than : D. the Ac. can be exerted in excess of the Con. to that extent so that a squint is not necessary. On the other hand, when the error is of more than 3 D . no exertion of the Con. can cause the Ac. to be constantly employed to an extent sufficient for clear vision, and the Hyperope will prefer very bad binocular to bad monocular vision. Sometimes you will lind cases of convergent squint that are not constant, but only occasional ; a person will tell you that he will be able to see a certain line of letters if he sguints, or he will do it without knowing it.

To a certain extent this occurs with all Hyperoyes, as is shown in testing one eye, the other behind the dise being converged $1^{\circ}$ or $2^{\circ}$.
(To be Continued.)

## Đo you wish to increase yoni Optical Trade?

مThen induce jour customers to rcommend youse

## Do you wish to make your Optical Trade permanent?

FThen avoid ertors in fittinges
Both of these results are obtained by uing Hardy's Ophthalmometer, which impresses your customers with the conclusion that you make your examination with care, and with the as istance of the most molern appliances. You camon afford to be without it !

## The Latest Practical Novelty

## Hardy's Anatomical Eye-Glass Guard

It is the best device ever patented in Eye-Glasses.


It is based on anatomical study, enables the average optician to fit an eyeglass as securely as an expert trame fitter. It is throughout scientific. Sample Eye-blass sent on receipt of 30 cents,


## The adjustment of Eye-Glasses made easy Mi MEARS OF

## King's AnchorGuards

The Anchor Guard is so easily adjusted that anyone can manipulate it.

We are sole agents for the above.

Dates of next classes at the Optical Institute of Canada, 60 Yonge Strect, Teronto (Dr. Hamill, Instructor), are February 15th, March Sth and 29th, and a Special Class to be held in Montreai, April 12 th. For further information apply to
I. S. LIEO, Principal, GO Yorrọe Street, Poronto.

## Montreal Optical Company

## Wine of the Extract of Cocl Liver

| Sold by all firat-ci.ss <br> Chemisisand Druggists |
| :---: |



This Wine of the Extract of Cod Liver, prepared by M. CIIEVRIER, a first-class Chemist of Paris, possesses at the same time the active armeples of Cod Liver Oll and the therapeutic properties of alcoholic preparations. It is valuable to perions whose stomach cannot retain tally ulwases lis effect, like that of Cod Liver Oil, is invaluable in Scrofula, Rickets, Ansema, Chlorosis, Bronchitis, and all dseases of the Chest.

## Wine of the Extract of Cod Liver with Creosote

Getneral Depot:-PARIS,
21, Faubuurg Montmarte, 21


Sold by all first-class Chemists and Druggisis

The beech-tree Creosote checks the destructive work of Pulmonary Consumption, as it diminishes expectoration, strengthens the appetite, educes the fever, and stppreses, perpiration. Ks effect, combined with Cod Liver Oil, makes the Wine of the Extract of Cod Liver with Creosote in excellent remedy ngons promounced or threatened Conammation.

## Dominion W oodworlk Co., <br> Torento <br> Junction

## JOSEPH E. SEAGRAM

Waterloo. Ontario.

MANUPACTURER OF ALCOHOL

Pure Spirits
Rye and Malt Whiskios

## "OLD TIMES" and "WHITE WHEAT"

- We telieve rutheng of prices detrimental to our interents."


## Druggists

$\qquad$
Who will sell Manley's Celery Nerve Compound and Indan lVoman's Balm at the regular prices are authorized to guarante the preparatom to give satisfaction or refund the money and rechaim same by addressing

The Balm Medicine Co., Ltd.
71 Victorla St., TORONTO.


# Optical Department 

In chase of f. S. 1,to, I'rinipal of the optin al<br>tmottute : 1 C.anad,

Conerpondents should note that for an methgent answer to be given to thear infuries, it is neveratry in every case to give the tollowing tilfomatton relative to theor pittent: (1) Sel, (2) age, (3) ocel pation, (f) near pome of distime vision for small bpe with earh ele alone, (5) how their ejes trouble the in, i..., their asthenopic symptoms, (6) visom of each eye alone without ghasses, (i) icet vision obtanable with glasees, manmg correcton.

Example - J. S, male: age is: book keeper ; ean read small type to wahin tive mehes of cach eje : complains of much headache through the day and evenng: eyes feel some and water a good deal, look red and inflamed, ete., ete.

The above example is taken to ithes. trate about how we desire impuiries to be made and also to answer a correspondent who asks, Would ghasses do thes customer ally good -because be can see as well with the eye alone as with any glass?
 metropha or hyperopa, and the ability to see through a conver ghass at 20 feet, as well or better than with the maked eye, shows hyperopia is present, and the strongest conven glass with which a putheat can see as well or hetter than he did whth the maked ege at 20 feet is the glass which repreents his mantest hyperopia, which in the above example is - 1.50 .

This customer, then, was using accommodation to see objects at a distance : the emmetrope does not use any. To read or write at is inches the emmetrope would use 3.00 dioptres of accommodaton ; the hyperope will have to use as much more than the emmetrope as be has hyperopia. Accommodation is simply muscular action; hence the hyperope must use much more muscular strain to do the same work at the same distance than would the emmetrope.

This extra strain explains all the symptoms comprained of above, and placing +1.50 glanses before the ejes of this patient will relieve the strant and all trouble will disappear at once. These glasses will reguire changing to stronger ones later on if the headache returns. The glasses should iee worn for all near work, but would not be reguired for street use, althoubh no objection could be found agamst wearing them constantl).

## Optical Items.

An eptician who does not see that the mecinanical part of fitting glasses is perfectly satisfactory and permanently well done misses the great point of his duty. labor-saving devices can of course be
used, but shifless and careles wotk, deme with the purpone of curckly getting the job olf his hands, is ermainal. In opucim who has studied has professon knows what is needed to make a perfert joh, and although it may canse him more rouble to do the job as it should the done le should allow no makeshift or tume saving methods to deter him from tinishing it in a conreientious and painstaking manner. On there hittle thongs reputations are batt. -Truder.

Headaches are often caused by the pring of the glasses being too strons. Persons whose nerve; ale not of the strongest often suffer from this aggratating cause. If the spring is stronger than need be, it should be weakened.

The term diopter, is a synonym employed in the place of the term matric, i.e., 37.39 inches. For practical use we call a dopme 10 mehes. Thus a glass of one dioptre brings the rays to a focus to mehes from the glass.

## opmthamovcoph chantib.

In chronic Bright's disease are found: (1) (Edema of the reina. (2) White spots showing degeneration. (3) Hamorrhages. (.t) Infammation of the optic nerve. (5) Atrophy of the retina.

All of the above symptoms go to make up what is calied alluminuric retinitis.

In ciabetes the patient is trable to impaiment or loss of sight ; the condtuons producing this are: (1) Cataract. (2) Impaired condition of the llood. (3) Changes in the fundus ocul.- Widiciol Firief, October, 1 Syd.

New Materint for Minturs.-The time honored scheme of rolling up a piece of paper and using it for a lighter bas been utilized by an inventor in the manufacture of matches. The invention promses to revolutionize Liuropeanmatch-manufacturmg, and is particularly timely, because the wood for this purpose is constantly growmo ecarcer and more costly. Ihe new matches are considerably cheaper than wooden matches, and weigh much less, a fact which counts for much in the exporta. toon. The sticks of these matches consist of paper rolled together on the bias. The paper is rather strong and porous, and when immersed in a solution of wax, stearine, and similar substances, will easily stick together and burn with a bright, smokeless, and odorless flame. Strips one-half inch in width are first drawn through the combustible mass spoken of above, and then turned by machinery into long, thin tubes, pieces of the ordinary length of wood or wax matehes being cut off atatomatically by the machine. When the sticks are cut to size, they are dipped into the phosphorus mass, also by machine, and the dried head easily ignites by friction on any sur-face.-National Drugrist.

## Advertising.

## Practical Hints on Advertising.

## 

There are two wass of looking at advertising, both of them right. Advertisang sh thla be done during the dull tume for the purpose of startung upe trade at that tume, and atso for the sake of the benefit which will come from being continuousl) before the public eye. A man should juse as quekly think of stopping his advertis. ing in the sumaer or in the dull time after the holidays as he should think of closing up his store for several months in the gear, and keepung it open only when trade wou'd keep hum buss.

There are probibly more houses in the country that could shut up for four months in the summer and be abead in cash at the end of that fur months. But at the end of the next four the gain would not be apparent. It do's not take people very long to forget things, and if the store were closed four nonths, or the advertis. ing stopped four months, a great many people wend have forgotten that the store was in existence.

The other view of advertising is that it ought to be pushed during the busy time when peopde are ready to buy. Advertis. ing camot be expected to sell goods when people do not wate them, and it will naturally be more effective when it guves pub. licity to stome desirable article at just the right time.
I should think that if a merchant carried a space of tour melie., single column all the gear rouad, he ought to double the space for the busy months, and occasionally during that time he can make larger spaces very protitable.

In raviness, as in all the other alfare of life, everything comes at once. When a busmes man is so busy with trade and with buying and receivinglisgoods that he has no time to eat or sleep, just at that very time his advertising demands the most careful attention. Just at that time his advertising is the most important pat of his trusiness, and usually it is the most neglected part.
In every store somebody has charge of the window display. The window display is an important part of advertising a store. There are phaces where, 1 think, with a good window carefully dressed, such advertising will be all that the store will need. lhese places are few and far between, however.

Now, if the work of preparing copy for newspaper advertising were turned over to some emplo;ee, and a little premium offered to himfor good work in this line, the result would be a great deal better advertising than is generally done. Of course, all copy should be examined and
O. Ked by the propretor before it ap peared in the paper. He would also, of course, decade on what the advernsement was to be about, but this would not take a minute of his tume.

It there is no clerk in the store who seems to bave an aptitude for this sort of thing, there are agreat many profesional advertisement witers who could be made use of to good advantage. Some of them are good, some indifferent, and some bad, but most of them will be able to give material assistance. The good ones w.ll write hetter advertivements tham tike merchant can himselt, and they will be worth mote than they cost in every msiance.

The advertisemeats ought to be changed in every isnue of the paper. There are lots of new gools coming in, and each line furnishes material for an excellent advertisement. P'ubhinh the ads as if they were news, and tell about the new goods as they come out. If anything comes which seems to be pectally dever. able, gave it particular pommenere and in almest crey case it wound be a sood idea to mention the price.

Whatever you do, do not deal in glitterings generalities. io not pui and ado the paper and say : "Jomn Smuth, dealer in wathes, dramond, jewely and salverware. Repaning a specialty: Come here for holiday presems." There is nothing to be gamed by such advertining. It probably isit worth what it cost : but the same s!ace wed $m$ an intelligem, thoughtial manner will bring returns every tilac.

All soores in a given lane keep preny much the same thags. Tixe dikereme beween them are made by epality and yuantity, or both. Feople know the arn erolitier whout bemg told. the thmy that will atract them is somethmg specoll and new.

1 don't beliese any large advertiser ever cht off his advertamg whout finding that he rut off his busmess at the sante time. If he is spending money foobislity, he ma; cot down has appropuiation swenty five or even. m some cones, fitiy per ceme, and still do the s.me amoumt of bouness.
I have known bunimeser where the ad verbing appopration was cut down filty per cent. and the business mereased. I thak there are a great many opponamtees tor junt thess sore of thane in . Imerica to day. The: is a great deal of money foobshly spent in adertisug.

Money is spent injudicously. Men go mothe wrons papers. Sometimes they Eo mot the sinh papers on the wrong was. Sonectimes they spend too linte in are paper and too much th aseiher. There are all sorts of ways of making mintahes in doing adretioing, and it is net to be expected that a man who is harased and worried by a thousand other detath of the bumess will be able to $\approx^{\circ}$ on furever without making :uistakes.

The chances are agamst the business man's being able to do his advertising withont spending a good deal of money for which he gets mo adequate return. He gives people adverti-ements to get rid of Them, or to keep them from "roasting "his business. He goes mon programmes becance the canvaser is a customer of the house. He does all sorts of things that are not advertising, and chages them to the advertiving account.

The hest adsertisus that a man can possibly do is to turn out good work. All the rest of the advertising in the world isn't of much use if this fits principle of advertising wn't $^{\text {adheted to. }}$

Swindlers sometmes succeed, but it isnit generally so

Permanem succes is sure to be huit on merit.

The man who makes mferior grood, has to keep on finding sew customers for them. Jou cant buhd a business that way: If the $s$ ods are not regh, they ought not to be advertned.

## Parke, Davis \& Co.'s Digestive Ferment Department.

The following leter sibeaks for Hself. 1)r. A. F. Deckinson, who for the pate fine years managed the deparmem for the Cudaty Co., will in future look atier the Digestive Ferment Department of Puke, Davis © Co.
onite of the Cudahy Pharmaceutiral Company.
South Omaha, Neti., Febl. 1st, Ny7.
We wike pleasure in mioming our friend and patrons that we have diposed of our basmess in Digevive ferments. comisture of Pepsin, l'ancreatua, and compounds of the same: so Mewrs. Puke, Davis \& Co.. Deluon, Michugan, and to whom we trut you will exsend the patronage and favom which you have always hown us.

S"ous:
 lis E. . Cisdahy,
Vice-l'res. and (ieneral Manager.

## Scent Pads.

A pad capable of alving of an agrec able peafune for a comsiderable lengit of tume, and, thetefore, bughly sumable for scenting japer, clothang store cupbenat. eic., can te prepared by cutang up glove kodkims un rectangular sirps of suiable sice, and steeping them on the following mixure: ()il of herenmot, 25 parts; oil of neroli, zo oil of buter almonds (par: ), 1 : onl of uris, 80 ; halsam of Tulu, 30 ; cumarm, 2 ; where they are left for three days. the vesset being scaled. They are then suspended from a cond and dried for severai days at a cemperature of about 65 F, aller which the mside (flesh side) of the leather is coated with strong gum
arabe solution and te died atter being thickly stewn with finely-powdered violet toot. In the meantime a pasty maxture of two parts of powdered musk, an equal quantity of civet, and a late gam arabic is prepared and spread evenly over both sides of the leather. When this is dried the leathers are stuck together in pairs, rough side inwards, and are cuvered with cotton-wool and enclosed in fancy cases of sitk. forming, when completed, attractwe pads of great durability.-. Sif/cufabrikisht.

## WANIS, FOR SALE, ETC.

Advertsirmentr under the hend of liuximes lianted,
 Sitic, e;s. will be ateremed once frec of chasge. Alssucersimsat not be sent it care of thit optice nitess


## SITUATIONS WANTED.

 $S$ bear wheticnce, fonk iresence, ibelleville.
W ANTED-A youmg una or boy to learn the luiness V. of a phamaceutical chemint, eic. Apply at once. K. J. Mcalpine, Chemint and Drusgin, 7 hevolen. Ont.

PARTNER WANTED.




## FOR SALE.

FOR SAME-.Canh ixginer (Nat oral), in we a year.
 Guchb. Ous.

## To the Trade:



## SEEL,Y, The American Periumer

## AN UNSOLICITED TESTIMONIAL

The Sbely Manft. Co.
Movireal. ger., Now, iStu, ISgG. Detrou, Mtch.
Dear Str,-I feel that I should like th add to your uns slicited tentimonials. When goar representative firat tried to do batines in this city, he tried in vain to sell several chenits, who, however, whid him that if he could sell to me he would be able to sell many mhers, as I was con-ilered a conneinseur of lecrfames. After sampling your gonis, I found thom a, reprevented, and gave gou my first order. I have now, as jom know, dealt with you many jears. I wih to congratulate you upon your Swee Mignonette, which is, as you well know, one of the odors which cannot be obtained succensfuily fram the aluer. liour imitation is the best I have ever mee with, and after the Sweet Mignmete prwes off there is left the equally beautifal odor of the oh-fanhined Wall Flower, which is an old friend to me. Wishing you succew in your manew, I am, sincerely yous. II. F. IACKSON.

"Quallty is King." "Merll WIns."
-8

We Sell to the Drug Trade Only

## SEELY MANUFACTURING CO.

## detroit, mich.

\author{

- Established in 1862 ,
}

WINDSOR, ONT.

## CANADIAN DRUGGIST PRICES CURRENT

|  |  |  |
| :---: | :---: | :---: |
|  |  |  |
| batger parcels mas be obliained at hower haturey but quamities vinaller than thene nammel will command an advance. |  |  |
|  |  |  |
| Alconol, gal |  | \$7 05 |
| Methyl. |  |  |
| Lisimes, 11 |  |  |
| powdered, |  |  |
| Alolis, oz | 40 |  |
| A Nonvie, Hoflamivat.. Ib | 50 |  |
| Аккоwкоот, Mermula, 1: | 50 |  |
| St. Vincent, 16. |  |  |
| Ha: ам, Fit, ll, ....... |  |  |
| Copaila, It. |  |  |
| P сru, ll . . . |  | $\infty$ |
| Tolu, can or lo |  |  |
| Makk, liatherry, 11 |  |  |
| basberry, ${ }^{\text {a }}$ |  |  |
| Buckilmorn, 11 | 15 |  |
| Cancha, 12 |  |  |
| Cascara, Sagrada | 25 |  |
| Cascarilla, seleci, li |  |  |
| Cassia, in mas ${ }^{\text {c, ith. }}$ | S |  |
| Cinchona, red |  |  |
| Poudersa. | 65 |  |
| Yiclow, 1 l |  |  |
| Pale, |  |  |
| E:m, selceted |  |  |
| Grounil, 11 | $: 7$ |  |
| Powidered, il |  |  |
| Hemlock, crushed, 16. | 15 |  |
| Oak, white. crucheal |  |  |
| Orange peel, bitter, li. | ${ }^{5}$ |  |
| Prickly ash, 11 |  |  |
| Sacsaftac, il | 15 |  |
| Sozp (quillay | 15 |  |
| Wiald cherrs; 11 | 13 | 15 |
| Blass, Calabat, l | 45 | 50 |
| Tonka, th. |  |  |
| Vanilla, lh. |  |  |
| Bukriks, Culeb, sifted, hh. | 30 |  |
|  |  |  |
| Junijer, th. |  |  |
| friciound | 12 |  |
| Prickiy ash, 16 | 40 |  |
| Bubs, Balm of | $5$ |  |
| Витtкr, Сасап, ${ }^{\text {a }}$, | \% |  |
| Casiphor, M. |  | \% |
| Casticarings, Rusian, |  |  |
|  | ${ }_{25}$ |  |





Cantharidal. Il....
ib.
.. $\$$ 35
covrbetins, senna, lb.......
CkEisotr, ${ }^{\text {Cond. }} \mathrm{ll}$
17 35
15 larger pascall parehaned ky ketw but quamities umatler than thone mamel will command an strance

Melhyl
$\$ 7$
no
$\infty$
Arisibee, 1
Alons, oz. Winnaivini.. ibк
AहRONKOOT, Ilermula, It
Si. vincen,

0
I) EAT kiNe, lh.

40
200
Caxvine, No. 40, or..
C.いruk, IVirc, IH. 2600
Gilatk, lirench, nowderci. 11.
l'recip., sec Calcium, Hb......
reppared, lb......... .........

Davek - lenurisk, lle.
10 12

EkGOT, Spanish, li
5
12
6


Exi kact , กewnom, bulk, lb.
l'aunde, lis
Fi.vwzes, Arnica, 11
Calendula, J.............
(icrman, ll).
Eillct, llv.
i...


| 30 |  |  |
| :---: | :---: | :---: |
| Tinneveliy，H2．．．．．．． | 15 | 25 |
| Stramonium，il | 20 | 25 |
| Usat Urs，lb， | 15 | is |
| Leecines，Suedinh，duz | 100 | 10 |
| l．icorice，Solaza． | 45 | 50 |
| Pignatelli．．．．． | 35 | 40 |
| Grasso．．．．．．．．．．．．．．．．． | 30 | 35 |
| F A S－－sticks， 6101 ll ，prer lb． | 27 | 30 |
| ＊l＇urity， 100 vickionlon | 75 | 75 |
| $\because$ Purity， 200 vick in lios | 150 | 150 |
| $\because$ Acme lellets， 5 llo tims | $2 \infty$ | $=0$ |
|  | 200 | ¢ |
| Tar，Licorice，and Tolu， 5 lb ．tin． | 200 | 200 |
| Lurvin，oz．．．．．．．．．．．．．．．．． | 30 | 3 |
| I．veornniem，it | 70 | So |
| Mace，H．．．．．．．．．．．．．．． | 120 | 125 |
| Masisa， lb | 160 | 175 |
| Mose．Iceland，Ib． | 0 | 10 |
| Irish，1b． | 12 | 13 |
| Musk，Tonquin，${ }^{1}$ ．．．it | $4{ }^{1} 00$ | 500 |
|  | 21 | 25 |
| Powdered，It | 25 | 30 |
| Sutmbis，lb | 100 | 110 |
| Nex Vomica，ib | 10 | 12 |
| Jowdered，ib | 25 | 27 |
| Oakem，lb．． | 12 | 15 |
| Onsimast，Merc．，Ib．：ond ${ }^{\text {a }}$ ． | －0 | 75 |
| Citrine， $16 . . . . . . . . . .$. | 45 | 5 c |
| Pakalieliside，oz | 20 | 22 |
| Priprex，black，ib． | 12 | 13 |
| Powdered，lb．． | 15 | 10 |
| flach，black，th．． | 3 | 4 |
| Bergundy，trac，th．．．．．．．．． | 10 | 12 |
| Plentiek，Calcined，bhl caht． | 25 | $3: 5$ |
| Alherive，yd．．．． | 12 | 13 |
| Belladonma， 16 | 05 | \％ |
| Galhanum Comap．，lla．． | Sis | 55 |
| Lead，llo．．．．．．．．．． | 25 | 30 |
| porber limaln，pres ios | ： （－3） | ：0 |
| Kosis，Commun，lh．．． | 21 | 3 |
| Wh：te．llo．．． | 5！ | 4 |
| Rfankcrs，uhite，uz | $\pm$ | 30 |
|  | $\pm$ | 30 |
| Kocor，Aconite，11．．．． | ：2 | 25 |
| －inthes，cat， 1 h ． | 30 | 35 |
| Belladionna，th． | 55 | 30 |
| ［3lond，li．．．． | 15 | 86 |
| Ditter，it． | 2 | 30 |
| 3lackicers， 16 | 15 | is |
| Hurduck，craheri，ib | \％ | 20 |
| Calamus，vised，whate．It， | $=0$ | 25 |
| Canada Snatie，11，．．． | So | 35 |
| Cohorh，Hack， 11. | 15 | 20 |
| Culchicum，16． | to | 45 |
| Culumin）， 16. | 23 | 22 |
| Towisererd，lt ．－ | $=5$ | 30 |
| Colssent，13，．．．．．．． | 38 | 40 |
| Comfrey，irushecl，ll | 20 | $\pm 5$ |
| Curama，prwilered， 16 | 13 | 14 |
| Dandelins．Ah．．． | 15 | 18 |
| Elecampane，11， | 15 | －＇： |
| Cialangal，Hh．． | 15 | 18 |
| Gelsemium，lb | 22 | $=5$ |
| Giertian or Genitan，ih． | 12 | 13 |
| Ground，Ih．．． | 13 | 14 |
| fowderert．lla．．．．．．．． | 13 | 15 |
| Ginger African，lh．．．．． | 15 | 20 |
| l？，！h ．．．．． | 20 | 22 |
| Jamaica，Hehd，lb．．．．．．． | 27 | 30 |
| Wo．，In．．．．．．．．．．．．． | 30 | 35 |
| Ginseng．llb．．．． | － 30 | 435 |
| Golien Seal，It | 75 | So |
| Gild Thead， 11. | $\infty$ | 05 |
|  | 12 | 15 |
| Indian llemp．．． | 3S | 20 |
| Iprcac．13，${ }^{\text {a }}$ ．${ }^{\text {a }}$ ． | 135 | $=\infty$ |
| Powdered． 1 ， |  | 235 |
| Ialap，hh．．．${ }^{\text {a }}$ ．．． | 55 | 6 |
| Puwdered，It． | 60 | 65 |
| Kava д̇̈va，Ih． | 40 | 0 |
| Liemrice，1t．．．．． | 12 | 15 |
| Powilered，It．．．．．．．．． | 8 | 15 |
| Mandrake，hi，．．． | 13 | 15 |
| Wasierwnrt，lt ${ }^{\text {a }}$ | 16 | ！o |
| Cintix，Fharentine，lli． | 30 | 35 |
| Prowdered， $\mathrm{ll}_{1}$ | 40 | 45 |
| y＇areisa lirava，ituc．lh， | 40 | 45 |
| Prink， $1 \mathrm{l}, \ldots$. | 40 | 4.5 |
| i＇arsley，lb．．．．．．．．．．．．．．．．．．．． | 30 | 35 |
| Pleurisy，tb．． | 30 15 | 25 15 |

Tinneveliy， $\mathrm{H}_{2}$
Unal U＇rs，Ib．
Lecenis，Suedinh，duz
RICF，Solazza
Pignatelli
Gr
ds S－aticks，6to tho，per th．


Lurveln，oz．．
l．veornnlem，
Mace，Jh．．．．．．．．

| （une the lleadow，th．．．． | $18 \$$ | \＄ 20 |
| :---: | :---: | :---: |
| Klantang，lb | 20 | 30 |
| Khubarb，lb．．．．．．．．．．．．．． | 75 | 250 |
| Sarsaphall．，llond，lb | 40 | 45 |
| Cut， 11. | 50 | 55 |
| Senega，Il | 55 | 05 |
| Squill，ll ．．．．．．．．．．．．． | 13 | 15 |
| ctallingis，ib． | 22 | 25 |
| lowderel， 1 | 25 | 3 |
| Unicorn， 11. | 35 | \％ |
| Valerma，linglah，lh，true． | 20 | 25 |
| Sirgma，Snake， 11. | 40 | 45 |
| dellow Duck，13． | 15 | is |
| liny，liay，gal． | 250 | 275 |
| Eivence，lb． | 300 | 325 |
| Sachtikin，${ }^{\text {az }}$ | 125 | 150 |
| Sestu，Amse，Italian，vifted，lb．．． | 13 | 15 |
| Star，lis．．． | 35 | 40 |
| Buralock，16． | 30 | 35 |
| Canaty，bag or less，lla．．．． | 4 | 5 |
| Caraway，lla．．．．．． | 10 | 13 |
| Cardamom，it | 125 | 150 |
| Celery．．．． | 25 | 30 |
| Colchicum | 50 | 60 |
| Curiander，ll | 10 | 12 |
| Cumin，lb．． | 15 | 20 |
| £ennel，16． | 15 | 17 |
| Fenugreck，powdered， 13. | $i$ | 9 |
| Flax，cleaned，th．．．．．．．． | 33 | 4 |
| Grount，lt，．．．．．．．．．． | 4 | 5 |
| Ilemp，ll，．．．． | $3^{2}$ | 4 |
| Mustard，white，lib． | 11 | 12 |
| I＇owdered， 16 | 15 | 20 |
| I＇umpkn ． | 25 | 30 |
| Guince，ll | 65 | \％0 |
| Eipre，th． | 5 | 6 |
| Sitophanthus，oz． | so | 55 |
| Winm，ll ． | 22 | 25 |
|  | 25 | 30 |
| Sind，Cantile．．lanted，pare，It． | 10 | 12 |
| What，Comia，！ | ：5 | 16 |
| lowiletel， H | 25 | 40 |
| Cireen（Sapm Xindis）． 1 ， | 25 | 25 |
| Srekntackitilb．． | 60 | 65 |
| Tukitwilixt，Chian， | 75 | So |
| Ventec，ll | 10 | 12 |
| Wix，White， 1 | 30 | 75 |
| Vellow．．． | 40 | 45 |
| Wiorlp，\＃uatar，racpeal | 5 | 6 |
| Gbasvia chipe，Mr．．． | 10 | 12 |
| Red Saunders，frembl，It， | $5$ | 6 |
| Santal，greant，Ih． | 5 | 6 |
| сН以йл．s． |  |  |
| ACrb，Acetic，lb．．． | 12 | 13 |
| （ihacial，Jb ．． | 45 | 50 |
| lienzuic，Englinh， 02 |  | 25 |
| Verman，oz．．． | 10 | 12 |
| Buracie，llo．．．．．． | 13 | 14 |
| Cintralic Cerysals，It． | S | 30 |
| Calserts Sio．1， 11. | 210 | 215 |
| $\text { 노. } 2,11$ |  |  |
| Citric，Ib．．．．．${ }^{\text {a }}$ | 45 | 50 |
| rialic，nz．．．． | 10 | 12 |
| Itydrohromic，diluted，It．．． | 30 | 35 |
| If jdracyanic，diluted，＂z．instiles loz．．．．．．．．．．．．．． | 150 | ：vo |
| Inctuc，concentrated，as． | 22 | 25 |
| Viusiatic，lt， | 3 | 5 |
| Chem puse，H．．．． | 15 | 20 |
| Nisric， H ，．．． | 103 | 13 |
| Chem．pire．ll． | 25 | 30 |
| Clere，purntied，ib．．． | 75 | So |
| Oxalie，ll， | 12 | 13 |
| Phomphric，glacial，I． | $1 \infty$ | 110 |
| Dilutc，M．．．． | 13 | 1\％ |
| I＇yrygallic，nz．．．．．．． | 30 | 35 |
| Salicylic，white，lb． | 55 | 30 |
| Sulphuric，carlong，lb． | － 23 | 29 |
| flotice，Hh．．．．． | 5 | 6 |
| Chem．pure， 16. | is | 20 |
| Tannic，ll ．．．．． | So | Sj |
| Tartaric，powderel，Ib．．．．． | 3S | 10 |
| acetanimin，W．．．． | \％o | 75 |
| dronithe．giain． |  | 5 |
| Anrve cryst．，lb，．．．．．．．． | 12 | 3 |
| Prowrerest．lb．．．．．．．．．．．． | 3 | 4 |
|  | 10 | 12 |
|  | So | S5 |
| Carinmate，ib． | 1.4 | 15 |
| Indide， az ． | 35 | 40 |
| Nitrate crjstals，lb．．．．．．．．．．． Mutiate，lb．．．．．．．．．．．．．．．． | 12 | 45 |

0
Scnega, lb.
Squill, 1b
thllingia, ib.
lowdered, ib
Valerman, Englah, lh. true....
1, ling, pal.
275
$18 \$ 20$


0




Salicylate, oz....
Subcarbonate, ${ }^{2}$.



CanmidM, Bromide, oz........
Iodide, oz...
Caffinse, oz.

Calcion, izyophoyhate, li.....
Iodide, oz....................
phosphate, precip., ib........
Phosphate, precip., lb.........
Sulphide, oz.................
Cekivn, Oxalate, oz..........


Cinclonine, sulphate, oz......
Cincuovinisp, Sulph., oz....


Iodide, ${ }^{2}$...

ETur.
Sulhuric, 1 h...
Sulphuric, lh........................



Isons, be liadrocen

Chlochide, llo.
sil. lis.
Citrate, 民゙...i., ih....................
And Ammun, li,
And Guinine, 11.
man. and siry., oz,
And Sut chnine, oz...



laciatc. oz...




40
55
25
45
60
30
225
200
$5 \$ 6$
55
$6 c$
18
00
135
120
200
30
13
55
7

$8 \%$ in
Nis
160
$\begin{array}{r}8 \\ 9 \\ \hline\end{array}$
25
45
60
30
130
190
35

    \(6 c\)
    100
135
120
35
Caffelsf，oz
Citrate，oz
18



| h．actatc．07．． <br> Pernitrase，solution． 1 <br> Phophate sealce，ll． |  |
| :---: | :---: |
|  |  |



## Ex

Exice，pred， Hb ．．．

```
            ## forac. Tartrate, llo.
```

And samen Tartrate, lis
I.ent, Acetate, uhite, Ib..........
Carimnate, ll................


L_Med, Chlormated, hulk, ib....
In packages, lh...............

Carhmnate, oz
Citratc, oz....
loditle, $n z . .$.


Citrate, cran., th............

IS
25
50
60
50
60
50
60
00
38
6
12
18
30

$1 \begin{array}{r}.10 \\ \hline 00\end{array}$
8 -
0
sil. lis.
no
－35
55
16
inintin






30
45
45
6
16
130
3
lodile, nz............................
Citratc, אran.. Ih.................

## Amongst Our Advertisers.

In high grade stationery nothing finer either in quality or style can be found than the velvet finish manufactured by Buntin, Gillies \& Co., Hamitton. The paper is of the peculiar finish, neither rough nor smooth, which is so popular, and can be obtained in three sizes, either in tablet form or folded in boses with envelopes to match. A lower priced line of fered by the same firm is "Olde English Checquer," which come in tive quire boxes of octavo note, with envelopes to match boxed in hundreds.

## Pure Powdered Drugs.

One of the most essemial thmes, and one that is very apt to be neglected, is the examination of all drugs when received. To buy inert drugs, or to endeavor to make satistactory finished products from such, is not only a waste of time and money, but is also a most reprehensible action. To get proper results the physician nust bave reliable remedies of definite streiggth : to produce these remedies the purest of drugs must he used, and full strength guaranteed. We were recently shown by the Hogartio, Fielding Co., Ltd., samples of pure powdered drugs, ground on the preaises, which, we believe, in strengit, purity, and evenness of powder are fully equal to any heretofore produced. This firm has put in machinery especially adapted for this work, and already the demand has been such as to $\mathrm{ke}_{\mathrm{i}}$ ) the mills constantly employed. They are now groding for a number of pharmaceutical manuffacturers, and the finished product in each case has been most satisfactory. They are also manufacturets for the trade of tablets. tablet triturates, pills, oinuments, etc. See their advertisement on page 263 of this issuc.

## What About a Wheel?

Our readers will observe that we have m this number included a "Bicycle Sup. plement "; a fact which could not possiUly be overlooked when the display ad vertisements of a number of manufacturers stand out so prominently in the centre of this journal.
The whecls advertised here are advertised to druggists specially, the makers recognizing the fact that the pharmacist is just as good a judge of a whecl as he is of goods in his owa particular line.
"There are others." hut the whecls advertised in your paper stand in the front rank and are all worthy of your patronage. The names of the makers and the wellknown bicycles made by them are both sufficient guarantecs that you cannot go astray in making your selection from the lines specially placed before you in our columns.

show herewith, for twenty-five cents, orpost. paid for thirty five cents. This includes 400 staples. Extra staples, which can be supplied in four lengths, are twentiy cents per thousand or twenty-five cents postpaid.

## A Gold Mine for Druggists.

The Emerson Drug Co., Baltimore, Md., offer to the trade something real in gold. Read their advertisement on page 34 a .

## For the Tollet.

Fram Jahn, $75 \overline{3}$ King street west, Toronto, offers to the trade in this issue a choice toilet article which should conmand a ready sale amongst the best class of customers.

Parls is a trade name for catechiu-oxy-chinol-dextringlycerate, which has been placed upon the market by a German pharmacist. Details as to its prọ̈̆. erties and uses have not come to hand.


CANADIAN DRUGGIST.


Drug Reports.

## Canada.

The sood sleighing has mproved bust ness, and the reports of payments leenruary $4^{\text {ih }}$ are up to average. Fom the Northwest most encouragug busmens reports are recelved as to the prospect of sprons trade.
There is considerable change mpruces. Bismutir has much advanced; $\$ 1.75$ is now asked in stmall hot for trisintrate and $\$ 2$ tor carbmate, and other salts m propertion. The tuture value is uncertain.

Mercurials are all hegher.
Sal Rocielle has adranced.
Carbolic achd lias adianced a tiffe.
Castor oll is very firm at advance.
Vanilla beans much hester.
Cardamon seeds bepher.
Qumme has derlmed, all kin,is of prognostications as to the future.

Cocame has dechode.
Paris green will likely be hethee than last seasm.

Moth camphor balls -- Price will be about the s.me as lat year.

Norway rod-hwer oil.-No predment, can be made for a few wechs until the report is receled of the catch. Present advices indicite a reductor.

Camphor is dull and weakenng.

Gemuan soot is misher
Jamaica sarsapailla root has advanced.
Tartaric acded is timer.
Our advice to the trade m these thes of fuctuating prices is to buy from hand to moun until some idea is obtained of the cause of fluctuations in values, then sume general idea ran be had for the future ; so far ne moh exphamatan has been recewed regarding gumine, bismuth. etc.

## England.

London, lanuary 2 Sth, 1897
Makers of bismuth have amounced a rise of 21 cents per pound on all bramuth salts, and mercurmis have adwanced 4 rents. Atropme has risen constederably, whist cueane has receded to the lowest bigure it has ever reached. Citric and tartaric acids are doll. Arsenic remana firm. Balsam of copaiba is quict, but supplies are short,and pure balsam obtams good prices. Camphor is firmer. Cubelos are cheaper, and have nearly got down to their old figure. Castor oil has moved up frachonall, but prices are by no means firmly mamaned. Cod-liver oil is receding steadily: Opium is quiet and prices unatered. The English manufacturer of s:rychmine, Mr. Whofen, raised the prices of thes article and us satits owing to the rise in nux vomica.

## Druggists

Who have had difficulty in getting their printing done in a protessional mannertor there is a marked difference between professioual and mercantile printingshould send their next order to us. We pleasantly surprise customers with the neatness of our work and the versatility of our resources. Anything you may require we can print.

We can print anything that can be printed.


Is used by all civilized nations, and is the most extensively advertised and has the largest sale of any article of its kind on the face of the globe.

## clears out

Rats, wice, Ants,
Hen Lice, Sparrows, Skurits, Squirrels,

Weasels, Jack Rabbits,
Moles, Gophers, etc.


DONT

## DIEIN THE HOUS



Gone where the Woodbine Twineth

CLEANS OUT
Flies, Water Bugs,
Roaches, Beetles, Insects, Cinipmunks, Moths, Potato Bugs, Gophers, etc.
"Ruugh on Rats" pays the retailer 100 per cent., and is the most extensively advertised article in the world. It is now "the" staple with the trade and public in United Staics, Canada, Mexico, Ceniral and South America, Great Britain, France, Germany, Africa, Australia, India, Eas! and West Indies, etc., etc. Sells the world around.
No loss by breakage or evaporation. Will keep a thousand years in any climate. Always does the woric. Lowest prices of its kind. Pays better than any other.




[^0]:    No. 1-Is a $\$ 2,000$ stock in western town of 3,000 population: two wher stores Sales for i80今 averacied Sis per day. Satisfactory' reasons for selling. Price, go per cent. of invoice. Terms, hall cash, balance oin easy terms.

    Nio. 2 -Is a stock about 5 s,ox, in village of $8 \infty 0$, nerthwertern Ontario, owned hy physician wha is 200 buy 20 attend 10 it. No prposition. Price, isvoice price and all calh. The Docior will umallirade joswele imo store. Ken, troo per jear.

    No. 9-Is a fine spore in city of Nanitobs, doing sood arade. Yropicior desires 0 for 10 british Columbis. Will sake 75 per Cent, of invoice if sold before March $10 \%$. Stock zbout $\$ 3,500$, in first-clacs concition. Tcrans, balf cash, balance in 3.6.9.12 woaths, xecured. Sure suceest for anyone.

