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# CANADIAN DRUGGIST. 

# WILLLAM J, OYAS, - Editor and Publisheri 

Sunscmption, Sl pem yeab in abvance. Adverlishen listes on Appliestion.
The Canailan Druanist is isvinel on the 15th of cach unonth, and all anatter for fusertion sltunli rewh as hy the fith of the worth.
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## CANADLAN DRUGGIST,

Stientheny, Oxtaizo.

## ENGLISI OFFICE,

16 Truelock Boad, Toctenham,
LONDON. N.

## Substitution.

From a puper liy Ambsus Dimmitt, raul before the Kentucky l'harn. Assuciativn.
This word is derived from the latin word substilulnm, meaning putting under ; or, in the sense weuse the word, replacing a given thing with something less valuable, either in its effiects or cost.

In plarmacy it is a practice that should be condemned hy all drugesists, and I think it is by all honorable and just members of our profession. Understand me; I refer to dishonest substitution, for in is case of eluergucy it may become necessitry, or when it is impossible to find the artiche prescribed, and with the consent of the physician it is permissible This liand of substituion we may call legitimate.

Let us view the evil results or elliects of sulbititution from the statudpoint of al! parties concerned, the paticut, physician, manufacturer, and druggist, amed s!ons, if possible, that it is detrimental to the in. terests of all.

The I'nticut--Theefficts of substitution on the patient is the most vital point we have to consider, as it may be a matter of Dife or derth to him.

If it be subititution in : preseription, see what might be the cflect. If at is critical period in the disease, when life hangs by a thicad, and the medicine dors not have the expecter effect, death is tho result: or in ordinary cases, if the patient does not fed any beneficial clifete, he becones disheartenod, losies confidence boih in physician and medicine (and, as we a!! know, without faith litple good can be accomplished): and the resovery is much retarded,

Then we have to consider tice expernsu the patient has incurred. He is paying the physician for advice and the drugerist for something he does not get, and the loss of time from his labor, which perhaps would not haseo oceured if the druggist had not substituted.

The Physicien.-The physician informs himself on the themapeutic value of a drag, chemical, or proprictary preparation, as it may be, by reading in the different juat. nals or circular matter the opinions of others on the effects and bencfits to bederived by the use of this particular vemedy. Me prescribes it in the first case be maty have where its use is indicated, and awaits results with interest.

The prescription has been taken to an unptincipled druggist who substitutes; the effect is not what has been clamed for it ; he maturally thinks it the fault of the remedy, and condemus it at onec, or if he has used the preparation Lefore and was positive of the results, he knows it was the fatult of the druggist, and places thestigma where it justly belongs, and perhays for the misdeed of this one drug. gist the entire profession is condemaed.

So you see by this illustration that a physi:ian's skill, ellorts, aml melligence are :all wasted by the a (fiect of substi tution, and possibly the loss of a very remuncrative practice, as that often depends upon the success of the rearedies he prescribes.

The Manufteturer. The manufacturers of chemicals, pharmacentic:al or proprictary preparations employ chemists at it large saliary, who are thoronghly colucated in the special line of goods their respective houses manufatare. They deroke their contire time and attention to perfecting old formulas or developing new imb improved ideas.

After doing this the manufarturer gors to great expense in getting the goods be fore the public, or medical profession, as it may be desired; then, if the article be one of merit, it will soon meet with the success it deserves.

How does substitution affict them? First, if it be a chemical or pharmacrutical preparation, the physici:m is the one to whom it is presented. He gives it a trial. Sulstitution-is practised; the eflect is not what was clamed for it. The plissici:un condemas it it once, discourages its use hy his lirother physicians, and loses confidence in athy other preparation this house may put on thio marleat. If this should onme in sereral lagennces, ha
loses faith in all progressivo idens, and ir' 'ts back to calomel amal limbarb that were taught him probably twenty-fiva years ago. So the manufacturer has not only lust the sale of the preparation, but a friend in the physician.

The chasses of manufacturers that suffer most by sulstitution at those making propactay or pate at preparations. They have to contemil with the line of remedies oi like nature that the retail drugesist prepares and substitutes for their goods; or, if it should Le at unstatupulum druggist, he might sell an imitation prepared to initate, as near ats possible, the popular remedy of the day without layine himsolf lisble under the litw. The full intent is to deceive the the public and take advantage of the demanh, created by advertising, for the remedy imituted,

Do you not think, brother druggist, that the manafacturers are rightfully and justly entitled to the prohts derived from tho Eale of an aticle they have originated, and for which they hase created a demand ? If this protit be taken from them, there is not the same incentive to continue in the march of progression; for you kuow that the pecuniary adnantage derined thereby is the motive power, and I am traid we would find very few, if any, who are phitantiropic enongh to work for ofory alone:

The Druyyist.-'Ths paper, as I originally stated, only applits to those druggists who substitute: litving no compunction as to the medicimal eflect, their own repatation or that of the profession they do so little credit. In our business, I beliete, and aun oflad to say, that this class of uen is decidedly in the immority:

The incentive for substatution by drusgists, as we all know, is at arcater profit.

Fet us all look at it from a strictly fianncial standpoint, aside from the moral view of the question, and see if it is more profitible or not.

Suppose a deuscist buys only the very chenperst, represented by an inferior class of gonds, that is oidtainable ; he does not consider quality, his idea being that the pablic is ignorant concruing druss. He thinks it is the cheiper prices people want, and that thry will always come to him because he sells cheaper tha:a his competitors.

Then, on the other land, another drusgist is extremely caroful in the selection of his stock, watching and ex:unining every article that comes into lis store, buying only from thoze in whom bo has
contidence. It is quality he wints, and he thinks the best is always t!e cheripest. Ho dons not consider his neighbor in pricing his goods, but makes hat fair, legitiunite prolit that is consistent with the quality of the drug he sells.

Which method of doing business is more protitable in the end?

It is a known faet that the American people, as a rule, are easily humbugged. Thoy always want something for nothing. Their eye is caught by glaring advertiso. ments of chatp prices. Bat they are too smart to bo caught twice by the sume trick, especially on a matter of such vital importance to them is pure drugs.

Do you think a man would so to a drug store a second time where he had not received pure drugs, what he asked and paid for the first time? I answer, No; at least it is not reasonable to suppose he would. Therefore 1 contend it dors not pay at druggist, from a protitable or finamcial standpoint, to substitute cheap and inferior goods for those which may cost more but which are pure.
Now let us moralizerilittlo on the sub. ject:

The druggist who will sell you inferior drugs will substitute or take an unfair advantage of you whenever the opportunity presents itself. In a very short tume all with whom he comes in contact will find him out. His methods are dishonest, and he is not to be trusted. II is natural trade drifts from him ; he has lost the respect and confidence of all. The pliysicians shun his store and advise their patients not to deal theri, as they can not get pure drugs ; while the druggist who is fair and honorable in his dealings, and who keeps nothing that would reflect discredit on his business, or the reputation of the physician, wins the contidenceand respect not only of his immediate trade, but attracts from his neighbor. The physician places the utmost confidence in him and recommends lis patients to go there, for he knows they will get what he prescribes and can depend on the results.

I believe the public is rapidly becoming educated to the point of selecting their druggist with the same discretion and judgment they use in the choice of their physician, and the druggist who conducts his business honestly amd conscientionsly will be fully appreciated by the desirable trade.

Another point frequently advanced by druggists as an excuse for substitution is that physicians prescribe every new preparation that is called to their notice. They spreify a certain make, when the druggist may have in stock lis own or some other make that is equally eflicacious. It is a great temptation to substitute, for you all know it mav be the only prescription he may receive for that particular make, and the remainder of the package is an entire loss. This condition is to bo deplored, but for the present we have to submit as gracefully as possible. The only proper thing to do, if possible, is to get the preparation, ciargo near cost, so Hs to make yourself safe, then trust in tha

Lord to sell the rest--but under no condition or circumstances substitute: Then you have done your duty to patient, physician, manufacturer, and diugisist.

## How TO PREVENT IT.

It is very oasy to see the evil effects of substitution, but to correct this ovil is a very difficult matter.

We could perhaps formulate a State law that would coser the point, and with heavy pemalty attached might have some effect, but even that would only be an as. sistance, not a cure ot the evil. If aman las a desire to practise fraud he will in some way accomplish his ends, whether by foul means or otherwise.

I believe the only and trae way to correct this practice is to show the druggists (who are as a class intelligent men) the amount of umnecessary sulfering it causes the consumer, the reflection on the reputation of the physicim, the injustice done the manufacturer, and that it is dishonest for the druggist and not profitable in the end.

Lat the pharmaceutical journals and druggists' associations take up the light and push it into the enemy's camp; and, if the battle be waged with unceasing energy and vigor, I believe that right and justico will in the end prevail, and in a short time substitution will be a thing of the past.

Let us have more faith in our fellow. men, for that is the foundation of all success in life. Jet us hope our brother drugroists will see the error of their wiay and join us in our effiorts to do right. Let us be charitable, say no evil of our neighbor. If he taliks unfainly of you, rebuke him by speaking well of hiu.

If we will observe these axioms we will find more harmony and, good feeling existing in our business relations thatl wats ever known before.

## To Sterilise Water.

Dr. Burlurcaux, Professor Agrese at the Fal-de Grace Military School, has devised a sterilising proceeding which has the merit of simplicity. Bacteriological researches have established the fact that, in depriving water of its lime salts, it is at the same time rendered free from microbes. Cliarke's process faddition of quicklime) is relied on to rill the water of its calcium carbomate, mad sodium carbonate is employed in the ease of specimens containing calcium sulphate. In practice Dr. Burlureaux recommends the use of a powdre which is composed of lime, sodiuna carbonato, alum and ferrous sulphate in varying proportions, according to the degree and kind of hardness of the water. For the dreaded Seine water the powder recominended is thus composed :-


As a rule, from thirty to fifty centigiammes would sterilise a litre of wator. The powder is added overuight and tho
witer decinted in tho morning for cont. sumption. A knowledgo of this simplo: incuns of sterilization-based as it is on scientitic data-will perlaps bo found useful in these times of cholera.-The Lathect.

## Gallate of Mercury.

Brousee and Gay, in a paper read before the Acadeanie des Sciences, give an nccount of experiments with this hody as an anti-syphilitic. Tho method of propatution is as follows:-

If Acial gallic erystal . ..........37.0 gr.
Mydr. oxid. Hav. ...... .......2l. 6 gr.
Mix the bodies by rubbing in a mortar; add 25 ce. of distilled water to obtain a semi-fluill paste. Leave the mixture in a mortar for two days; powder the mass and dry over sulphuric acid. This may now be used in the form of pills of thio following composition:

> Mydr. gitlate .05 gr.
> . 10 gr .

The authors have tried the remedy on thirty dilferent patients, and find that it is very tapidly absorbed, and very efficacious, whether in the carly stiges, or during secondary symptoms. They urge that its therapeutic effect is as great as the bichloride or biniodide of mercury, and that it is not poisonous in the usual doses, atid does not produce any of tho disagrecable ellects of tha bichloride.-Comples Reuthus.

## A New Paste.

Here is a new French recipe which any of our readers who experience difticulty in getting their labels to adhere to g!ass; porcelaia, or metal, may very likely succeed with. It is culled from the Nouvearix Remedes for November, 1892, E. 1 :


Macerate the gums separately in a little water; slake the gum tragracanth untila sticky cmulsion is proauced; mix in the gum anabic solution, and then filter through line linen. Next add the glycerin, in which the oil of thyme has been previously dissolved, finnlly make tho liguid up to about two pints with water, It is better to use distilled water. The paste is stated to possess very remarknble idhesive properties, and to kecp well in sealed bottles.

Punification of Fined Oils:-When fixed oils, like olive, peanut, benne, or cotton-sced oil possess ia disagrecible taste they are sometimes purified by mixing with a weak alkali, then adding dioxide like manganese or barium dioxide, which readily evolves oxygen, the amount depending on the oil, incorporating thio. whole thoroughly for ton or fiffeen min. utes, then setting aside for two hours, when the whole is saturated with carbois dioxide, and at the end of twenty:four houra the oil is decanted arid filtered, iDrog: Zig.
NOW IS THE TIMEto Lay in a stock ofFRENCH, CAVE \& CO.'Sombaratad
"Sreet Chimes" Perfiume.
Shich has taken well wherever sold.Put up in 8 ox. G. B. Bottles. Per Fint $\$ 500$, less 8 jor cent.thirty days, or 4 per cent. ton days.-ALSO——"Siweet Ohimes" Perfume, in $\frac{1}{}$, 1,2 and 4 o\%. bottles, hathesomely put up.
"Swrest Chimes" Perfume, trial si\%e, 12 un carl."Sweet Chifmes" Smelling Salts."Siveet Ohimes" Sachet Powder, in Euvelupes."Sweet Chimes" Sachét Powder, in $\{$ ll. Buttles."Sweet Chimes" Face-Powder, White and l'ink."Sweet Ohimes" Toilet Powder.
French, Cave \& Co.'8:-Colcry and Ciffeine bromide.$4 \cos ^{\text {S }}$ Send tor "Special Oifer" Circular.
French, Cave de Do.'s:-Chlorate of l'otish, Soth Ninis, SunCinolera, Clarccal, Bronchial, Aluriats Ammonia I'ablets, WormCliosolates and Lozenges, Quinine Chocolates, Cucumber Crwam,Dentistinc, Turkish Alints, Oriental Court Plasters, Com. SyrupHyp., Columbia Lavender Salts, Concuntratel Toilet VaterLissences, \&c.
THE CANADIAN SPEEIALTY CD., ..... 88 Front St. Mast,
DOMINION AGRNTS.


S'TEARNS'

## Wine <br>  <br> Cod <br> Liver <br> Oil

WITH PEPTONATE OF IRON


Is an entirely now and original preparation, containing 25 per cent. of pure Cod Liver Oil, as represented by its active medicinal constituents, Morrhuine, Butylamine, Amylamine, Lodine, Bromine and Phosphorus.

Modern investigation has prowen that the value of Cod Liver Oil as a medicimal agent is not due simply to the fact of its bring an oil, but to the valuable active principles which it contains, as noted above.

Each fluidounce of the Wine contrins four grains of PEPTONATE OF IRON, the most readily assimifated and most valuable of all forms of iron, it being partially predigested and free from styptic properties.

The fact that iron is prescribed in so many eases where Cod Liver Oil is required, verifies the ingenious, yet scientilic combination of this preparation, which now fills a long felt want as to how to administer in an agrecable maner the very agents much needed.

This preparation does not cause cructations or nausea, as dows the oil, but is pleasant to take and thoroughly active. The dose maty be increased somewhat with its use, if thought desirable.

The Wine notably increases the strength of the patient, as increased weight is evidence of returning heilth. It is valuable in nervous aftections of children, actng especially on the nerve centers, thus not only assisting but preventing nervous disorders.

This Wine sustains the functional activity of the organs of digestion and assimilation, and is thereforo recommended for phthisical pacients who camot digest and assimilata o ourishment. Its power of increasing metabolism (tissuc change) makes it especially usefal in such cases, for it ias been proven by clinical experiments that jatients taking it have gained rapidly in weight and increased a. petite.

Stearns' Wine has a delicious taste, and is acceptable to the stomach of the most delicate invalid. It is rich, ruhy, red in color, and free from all odor and taste of the plain Oil.

Stearns' Wine may be uscil in all cases where Cod Liver Oil and Iron are in.dientel, and furthermore it is devoid of all the objectionable features hitherto attending the administration of Cod Liver Oil in any form.
Samples, Literature and Treatise on Wine of Cod Liver Oil sent free on request. Price, $\$ 8.00$ per doz. For male thy all the leading Jobbing Houses, or direct from

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## NORWEGIAN COD LIVER OIL.

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## The Lamb "Eye Shield"

I'ajkstri Arall 1t, 1891.
FIEXIBLE, WATERPROOF \& NON.HEAT-CONDUCTINC.
Tho Cheapest, I.ightest and Mast Burablo Vye Drotectar over presented to the pulblic.

The LAMB "EYE SHIELD" fits clusely to the face, atround the eyes, a soft, perforated felt rim on the fate side rendering it impossible for dust or any other substance to enter letween it and the skin. Small perforation in the felt rime almit sulficient air for the eyes to retian their normal moisture. The lenses ane formeal of tho cleatest micia and atre perfectly transpar. ent. There is conserpuently less liability of injury to the eyes, with this Shich, in casc of acejdent, than with other similar deviees in Which glass lenses are used.

Horsemen, licyclists, Strect-car Drivers, Motor Men, I'minmen, Stone Cutters, Blacksmiths. Iron Workers, Roofers, Metal P'olishers and Grinders wit! find the "Eye Shichd" invaluable. Chemists, whose eyes are exposed to poisonous vaposs and liqnids, weed no longer fear for their vision. All Wiater Sportsmen, Skaters, abid persons sleighing or tobogganiag: will recognize the safety and confort to be derival from using the Lamb "Eye Shicld."
Fach shicld is neatly packed in abox convenient for being carried in the pooket.
Shichls furnished with miais or sicki.f frames, and with clean, nue or smoke lenses, its desired.

Wholesale Druggists, - London, Ont.

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1743 \& 1746 Notre Drme,
MOINTEエ.A工.
have Just recelved the following :

## Dupont's Tooth Brushes, <br> A job line, extra value.

## Betrand's Mai ilily,

And other New Odors.
Sponges, a fall line,
Honey Comb, Forms and Coupe.
The finest Sheeps Wool and Carribean in 10 lb . bales.
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Rramnamied dy Pusuciains

## AND THE PUBLIC ALLKE.

A pamphlet with full instructions for the immediate treatment of CHOLERA SYMPTOMS enclosed with ench bottle.

Will be certain to command a large sale. Retails at īOc. a bottle.

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SPECIAL VALUES IN

## RUBBER GOODS. <br> WRITE FOR QUOTATIONS.

Lyman's Fountain Enemas, 2,3 , and 4 quart,
With Male, Female and Irrigator Pipes.
LYMAN'S
Cambindion Funtain Springe and Water Botlere

2 and 3 quart,
With Male, Female and Irrigator Pipes.

## LYMAN'S

Combination Fountain Syinge and Waler Boitle;

2 quart, with Enema attächment.
A Fountair, Syringe, Water Bottle and Enema in one.

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1,2,3, \text { and } 4 \text { quart. }
$$

We are Special Agents for

## Arnold's Atomizers,

## For cither Water or Oil.

No. 1, Long Straight Tip,
86.50 doz

No. 2, Long Straight Tip \& extra tip, 8.00 doz. For tinck of throat, either up or down.
No. 3, Long Straight and Nasal Tip, 10.00 doz.
No. 4, Three Tips,
12.00 dur.

We guarantco these goods.
THE LYMAN BROS \& \& CO ITIU

## TRADE NOTES.

Dr. Williamsonhas opened a business at Naksup, B. C.
Ball ct Co. are opening a drug business at Elkhorn, Manitoba.

Dr. In. W. Shaw has opened a new drug store at Lucan, Ont.
W. Thornton, Calgary, N. W. T., has sold his drug business to O. If. Bott.
C. B. Abshear, druggist of Stephenville, Texas, has been visiting friends in Ontario.

Leonard © Papinenu, druggists, Montreal, Que., have dissolved partnership, Mr. Ieonard retiring.

The drug business of the late J. S. Petrie, Guelph, Ont., has been sold to Charles Law d. Co.

W: 13. Montgomery, d.uggist, corner of Yonge and Gerrard-sts., Toronto, has assigned to Mr. C. Scott.

Godfrey Yapineau, druggist, Montreal, Que., has registered as doing business under the name of Leonard is Papineau.

Amongst the Canadian cricketers who are now playing in Toronto against in Canadian tean, is a Queenslnad (Australia) druggist, Mr. A. Coninghan, who has the credit of being a good bat and very destructive bowler.
R. R. Martin, at one time a prominent druggist in Toronto, Ont., but who has for some time had the management of the New York house of Sharp ic Dohme, has gono to England to establish an agency of that house in that country.

Amongst the recent Presidential appointments of consuls in the United States, we notice that two druggists have been given public posts. Mr. George T. Taite, of Boston, being appointed to the Barbadoes, and Mr. Charles S. Hazeltinc, of Grand Rapids, Mich., to a similar position at Milan.

Mr. Henry Iyman, senior menber of the wholesnle drug firm of Lyman, Sions \& Co., Montreal, was presented with a congratulatory address by the employees of the firm on the occasion of his reach. ing his eightieth birthday on the 4th of October. The address was presented at his residence and was read by Mr. Thos. Moyd, chief book-kecper of the firm, and was signed by the eighty-five cmployees of the firm. A congratulatory telegram was also received from the staff of the Lyman Brothers \& Co. drug house of Toronto.

The Chicago British American, of the 7th, says": "Eral Forshee, à druggist of Florence, Unt., dropped dear in a sleeper attached to a Wabash train at the Polk street depot on Thursday night, Oct. 5th. Mr. Forshee left his home in Canada one day previously to visit tho Fair, and stopped while in the city with friends at 0715 Prairie avenuc. He was accompanied to the car by a number of friends, who. bide him good-by as the train was about to start. Suddenly, as his friends were
preparing to leave him, ho turned pale and fell over in tho car. When lifted into an upright position it was found that life was extinct. Death is supposed to have been duo to heart disease.

## Pharmaceutical Association of the Province of Quebec.

The adjourned meeting of the Comncil of the Pharmaceutical Associntion of the Province of Quebee was held in the committee room, 595 Lagruchetierre street Montreal, on Tuesday, September 5th, 1803.

Mr. Joseph Contant, president, in the chair.

Business of the meeting being to elect the examiners for the preliminary examinations, it was moved by Mr. D. A. Mann, scoonded by Mr. A. E. DuBerger, that Mr. Isaac Gammell and Mr. A. Leblond de Brunet be appointed as the examiners for the prelininary exnminations of the association for the balance of the current year. Carried.

Resolved,-That the preliminary examiners shall be paid the sum of ten dollars each for every quarterly examination, and that the Quebec druggist who shall be charged with the supervision of the said examination in Quebee shall be paid the sum of tive dollars for each examination held. Carried.

Moved by Mr. A. F. Dulberger, scoonded by Mr. A. D. Mann, that Mr. A. LaRue be appointed as supervisor of the preliminary cxaminations in Quebec, whose duties will be to receive the questions from the secretary, deliver them to the candidates on the day of examination, attend on the candidates when writing out the questions, collect their papers and forward them to the secretary at his carliiest convenience. Carried.

Resolved,-That the present preliminary examiners' committee be continued, and that they meet with the newly-ap. pointed examiners and arrange upon the best mode to adopt for drafting and delivering the questions to the candidates for the next October preliminary examination

There being no further business, the meeting closed.

The regular mecting of the Council was held September 5 th.

Joseph Contant, Esq., president, in the chait.

The registrar reported that the associa. tion attorncy had given his opinion to the effect that there was no appeal from the judgment of the Circuit Court judge in the Mathicu ense.

The registrar, as the authorized oflicial delegate, read his report of the meetings of the American Pharmaceutical Associntion and the International Pharmaceutical Congress meetings held in Chicago, commencing on August 14th and closing August 23 rd, the report setting forth the cordial manner in which this Association's delegates had been received, and the honor which had been conferred upon this
associntion by tho appointment of tha registrar as vice president and Mr. S. Isachance as vice secretary for this province, of the World's International Pharmacentical Congress.

This report was considered very satis. factory and a vote of thanks tendered to the registrar for the manner in which he had represented the association at the Work's Columbim Intermational Pharmaceutical Congress in Clicago.

The other delegates aceredited from this association were Messrs. Lachance, Morrison, Carriere, and W. IB. J. Brunct; these, with the exception of Mr. Brunet, presented their credentials and took part in the several meetings.

Resolved,-That the semi amual oxamimation for major and minor candidates be held in Quebec commencing on Jues. day, October 17 thi next, and that the secretary be authorized to make the neces. sary arrangements for said examination.
An olficial communication was read from the Ontario College of Pluranacy, fully approving of the movement of this association in the direction of obtaining an otlicial standard for all medical preparations and the formation of a Dominion Pharmaceutical Association, and with a view to facilitate this movement the Ontario College has nominated its president and vice-president, with power to add to their number, to act in unison with this association and the sister pharmaceutical associations of this Dominion.

The secretiry was instructed to reply to this communication and to confer with the other associations of the Dominion on these subjects.

## College of Pharmacy.

The Untario College of Pharmacy scudents held at mecting on Saturday, Sept. $30 t h$, for the purpose of reorganizing their College Association and electing oflicers for the ensaing term. The following were clected ofticers :- Honorary President, Chas. 1:. Heebner, Plum. 13., (Tor.), Ph. D., (N. Y.) ; President, Fred. J. Crease, Barric ; Vice-President, Malton MicIntyre, 'Toronto ; Secretary - 'Ireasurer, Ira E. Belfry, Meaford; Committee of Management, Messrs. If. W. Mitchell, Toronto; Will S. Kiddic, Oshawa; Arch. Menderson, Ayr; I. J. Bunting, 'Toronto; 'Tom Allen, 'loronto.

## Pharmacoutical Examinations.

Thirty-five candidates of Montreal and six of (Quebre presented themselves at the preliminary examinations of the Pharmaceutical Associntion of the Province of Quebec. The successful candidates are Messrs. Joseph Joseph Queeneville, of St. Henri ; A. I. Webb and E.J. Thivierge, of Montreal. The names of the candidates who passed on all subjects but history are Valmore Ledoux, Granby, and T. E. Gagner, St. Alme of Richelieu. The examin. ers were Prof. Isate Gammill and Prof. A. Idelond de Brumath.

## Montreal Notes.

A. Robert, pliarmacist, St. Lawrence Main St., camo out best in the action agninst him, brought hy the Government, with regard to tho alcoholic strength of his essence of ginger, and it is expected that S. Sachance will do the same in his tincture of jalnp case, at least, that is the probubility at the timo of writing. There are one or two more cases of the same kind to come before the Courts it is satid.
It secms absurd for the Government analysts to bo fussing about the alcoholic strength of a tincture when the peopleare swallowing daily timned froits ind vege. tables containing lead; soda water and lemonade containing copper, and lager beer containing catechu and sulphuric neid; not to speak of tea, pepper, mus. tard, and pickles all of which are articles of daily consumption and which are notoriously adulterated. It would be interesting to know the proportion of shicory in the average corner grocery colfe.

The partnership previously existing between Messrs. Papinean © Leonard has been dissolved. Mr. Papineau intends in future to carry on the business on his own account under the firm name of Papineau \& Leonard. Mr. Lconard will continue his own business on St. Lawrence Main st, as usual.

At the meeting of the Council of the Pharmaceutical Association, held on Sept. Eth, Mr. Isaac Gammell, of the High School, and Mr. A. Ieblond de Brumath were appointed examiners for the preliminary examinations for the balance of the current year.

The members of the Pharmaceutical Association who represented that body at the recent Intermational Congress in Chi. cago were Messrs. Ebenceer Muir, S. Lachaner, Carriere, Brunet, and Mowison. These gentlemen were well received, and give a good account of the festivities inseparable from such occasions. Mr. Muir gave a full account of the good work done in the past in this Province by the Association, and Prof. T. D. Reed, of the College of Pharmacy, sent down an excellent paper on the manufacture of potash which was read by one of the members and which was very favorably spoken of. Dr. T. D. Reed is one of the most popular teachers at the College of Pharmacy here. He was apprenticed to the drug business and was an assistant for some years before studying medicine.

The old firm of Pecault © Contant is having in new plate ghass front fut into their pharmacy on Notre Dame st. It will be $n$ decided improvement and with the new front being put in on the opposite corner will brighten up the street considerably.
The many friends of W. II. Gritlith, of Wellington st., Sherbrooke, will be pleased to hear of the great improvement which has lately taken place in his health. He is at business again for the greater part of the, day:

## Prince Edward Island Notes.

Dr. Darrach, of Kensington, and Mr. A. S. Johmson, of Charlottetown, have been taking advantage of a C. F. M. excursion to visit the great North. West.

1. O'M. Reddin is at the World's Fair. Albert Crosby, having left Dr. Dodd's employ, is now behind the counter of Apothecaries Mall.

Daing the Provincial Exhibition F. de C. Davies made a displny of his ointment in the Exhibition Building.

At the same time two windows ateracted attention. Mr. Johuson had a cottage built of boxes of Everybody's 1'ills, and Mr. Witson suspended a large anchor of sponges above a window piled up with soaps. All the drug, stores were closed during the bast afternoon of the exhibition.

Dr. Dodd is to spend the winter abroad. Mr. Watson was one of the six success. fu! competitors winning prizes for correct auswers to the questions in the Chemist and Druggist Diary Competition for 1893.

It is expected that the present Apothe. caries Ifall will be replaced next year by a hamdsome new building, suggested plans of which were exlibited in the window of Mr: Hughes' drug store during the past month.

## Notes From England.

## (From Our Oun Corrsspondent.)

The long expected new edition of the United States Pharmacopocia has come at last. With it touch of polite fiction it is diated 1S90, but is not to come into force until 1894. From a brief examinntion of its pages I am glad to join in the chorus of approval that lins so far greeted it. The real value of many of the changes can only be appreciated by the experience which time and opportunity will afford. The majority of the additions are welcomed silthough a large number appear strange to English pharmacists. The newly coined word "Emulsum" has the advantage of being readily understood at a glance. The standardization of extract of nux vomica, so as to contain 15 per cent. of total alkaloids, is a step towards the uniformity in strength of poisonous preparations that ought to prevail more between the B. P. and the U.S.P. It is rather disappointing that during the interval of nearly nine years since the publiention of the last edition of the $13 . P$, there has been no attempt to differentiate between the brucine and strychmine in nux vomic: and its galenienl preparations. According to Dr. Inuder Brünton, I. R. S., pure brucine has little or no physiological action, although this statement has not been confirmed. No complaint can be made as to the altered strengths of pepsin nad powdered opium, which are steps in the right direction. The 13. P. will certainly have to follow this step, as at the present time ordinary commercial sampies
of powdered opium and pepsin havis to be diluted with inert materini to reduce them to the B. P. standard.

The production of rectified spirit and the details connected with this important industry arealways of interest to chemints. The practical paper that has just appeared in tho British and Colonial Druygisl gives somes iden of the enormous production which takes place in this country, and what an important addition is made to the revenue merely from the spirit employed in pharmacy. It is cortainly an unfortunate incubus to the expenses connected with our calling that attempts to der: crease the driak bill of our country by increasing the duty on alcohol. should apply equally to its use in medicine. It is probnbly a difticult problem in thess days of fiery elixirs of liqueur-like charac. ter and neclicated wines, which are noticeable for the small nmount of medscine contained, to separate the alcoliol of medicinal preparations from ordinary alcoholic drinks. Nevertheless tho pharmacist is unduly pressed with the heavy barden which makes his tinctures and lluid extracts so dear. He cannot raise thio price for dispensing prescriptions when tinctures, etc., are dearer from a ligher spirit, duty. The publican has two reme. dies in this country which grently assist him over the difliculty. Either he reduces the quantity by supplying a smaller measurement for the money, or he dilutes the spirit with water so as to enable him still to supply the same volunie as before. It is a curious fact that aduiteration is practically winked nt, if not invited, by tho laws of the country regarding whiskey, ctc. What would be thought of a drug: gist who boldly displaged n notice that all tinctures were diluted according to an Act. And yet, this is precisely how tho publican is allowed to put himself outside the Adulteration Act by displaying such a notice regarding the dilution of his spiritous ber erages.

The lintest system of launching a patent medicine or proprictary article by distributing free shares in the undertaking to doctors and chemists who will interest themselves in its sale, cannot be recommended. The curious spectacle was recently witnessed of a number of medical men nppearing at a court of justice and praying to be relieved of liability in a concern which had foundered in which they held shares given them by the proprictors. Thd judge was specially severe on them and made them pay their own costs; whilst it was quite evident that he would have liked to make them shareholders and liable for the anount of their shares.

The Pharmaceutical Congress at Chicago appears to have been carried out in all its details with considerable eclat. The sudden death of Professor Maisch before he could personally receive the Ifanbury Medal of the Pharmaceutical Society was especially sad. Amongst the sheaf of resolutions which were presented and rapidly pissed, the determination to ap.

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#### Abstract

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> TO THE RETAIL TRADE OF CANADA.

\section*{Price List of T. A. Slocum \& Co's Remedies.}

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All orders receive prompt attention. Remit by Post Office Order, Express Order or Registered Letter. Postage stamps taken for amounts less than \$1.oo. Address all monics and luflors to
point a standing committeo to advise on uniformity in pharmacoperial preparations was exceptionally happy. The general impression has long ago gained ground and resulted almost in the certainty that an International Pharmacopeia wis not wanted. I! every civiiized country the work of preparing the pharmacopain is every year falling more and more into the: hands of pharmacists. What then is required is a little more agreement amongst pharmacists on pharmacopuial committeres to am at international uniformity as far as possible and wherever advisable. The preparation of decoctions, in one inslance, being directod to be in the proportion of 1 in 10 , and in another 1 in 8 , is of little moment. Ihut, for the safety of manlind, it is certainly only right that poisonous preparations should have some agremment throughout the world, so that the dosage (where so particularly important) should be identical.

## Manitoba Pharmaceutical Association.

The following were the successful cinbdidates at the recent semiramual cxamination of the Manitoba Pharnaceutical Association:-W. K. Luxton, Frank Hayes, W. lishop, W. (i. Skead, and Alcer. C. Hourberu.

## Practical Suggestions.

Chag. fin sonnewhuire, phe fo
"Cleanlinces is next to godliness." This cannot be too firmily mpressed upon all plarmacists. Clcanliness is what the repatation of ade store infrends on.

That section of the store senemily neslected, yet which especially should not be, is the prescription depmorment. Soiled mortars, ointunent slake, spatulas, funnels, etc., should not le left standing around until they are to be used again. Considerable time and laborcan be spared by cleaning all apparatus thoroughly after being used.

Traces of ointment left on at slab or in a mortar will become mancid in a verg short time from exposure to the atmosphene: the next ointment prepared, no matter how fresh it may be at the time, will, by contamination, become rancid rery soon. There is nothing soirritating to ilbraded surfaces as decomprosed ointments.

A large supply of clean bottles, dried and capped with a piece of paper, should be constantly at hatud. Avoid the use of old bottles; new ones are mach cheaper in the long ran.

Scale pans, aioove all, should not ise neglected. A vrry scrious ascident came ander my observation not long since by neoligence on the part of the clerk, in failing to thorouglaly clean the scale pan after using it for arsenious acid. The next sabstance weighed was calomel for in infant. The traces of the srsenious acid left on the scale pan were carried with the calomel and administered to the
child. In a very short time it showed symptoms of arsenical poisoning. IIad it not been for immediate assistance, it is quite possible it would have died. This ought to be suflicient to impress indelibly upon the minds of apothecaries to pas particular attention to thear scales after weighing poisonous substances.

The prescription counter should be utilized for working purposes, and not serve as at depository for all sorts of utensils and bottles. The latter should be rephaced on the shelf immediately after iveing used. Failing to comply with this rule hats caused many serious mistakes.

Neser proceed to weig! from a bottle without reading the label. Do not rely onther positionthe bottlegenerally; occupies.

Never replace an oil or syrup bottle on the shalf without wiping around the neek of it with a piect of paper or a sponge. This will prevent the bottles from becominger streakel with th:c oil or syrup, which, in the course of time, renders them unsightly:

The phace about the store these two articles should occupy, is a matter of no little importanct is couvenient place in the cellar awiay from the furnace, or on at lower shelf in the store, are about the most desirable ones for them. The worst place for them is the upper sholi in the store. Let you will find in most all stores one or more of the most delicate essential oils on the topmost shelf. Noth. ing about the drus store demands more attention than essential oils. Kerp fixed and essential oils for dispensing purposes in small dark bottles well carked. It is far more satisfactory to observe tinis clisan to sell in bad article, periaps detrimental to the heald of the patient and also to the reputation of the apothecars.

In syrups, the disturbing ajent is ci:tirely different from that in cils and fats - Sirups ferment: oils and fats oxidize. Unlike the oils and jats, some syrups can be restored to almost matural staise by simply hoiling.

Do not keep syrap of iodide of iron in $a$ large bottle on the shelf in a remote dark corner where daylight is a surprise: in a very short time 花 will become dark brown from the oxiantion of the iron and evolution of the iodine. This is facilitated by the oxidizing atmosphe:re admited irom time to time by frequent opening. The dark color can be restored by comspletely faliing stanll bottles and exprosing them directly to the sun's rays. This however, in all probalility aiters, to $a$ certain extent, the u:cture of tile solation of iodide of iron.

Syrup of hydriodic acid; on the contrary, should be kept in a dark, cool place, securely scaled in. small bottles, prerenting the admission of the atrmosphere as mach is possiblo. This syrap, by the action of the jight and atmospheres becornes dark from the cevolution of iodine. By passing a stream of sulphuretted hydrogen gas through it, heating slightly to drive off the yas, and filtering to separate any precipitate of sulphar that might be formert, this syrap ean be restored to ite
original color, but this, in all probability, as in the foregoing syrup, alters its composition to a certain extent.

Elixirs, syrups, or any other liquid con. taining ferri phosphas, U. S. P., should also be protected from sunlight by being krpt in dark bottles, the sunlight having the power to eliminate or reduce ferric salts existing in ferri phosphas, U. S. P., to ferrous.

Among the other most important preparations to be proserved in darkness are: Liquor hydrargyri et arsenii iodidi, hydraryyrum cum areta, hydrargyri iodidum rubrum, hydrartyri iodidum viride, in fact, all the preparations of mercury and carbolic acia?
Whencter you have occasion to filter oils, balsams or other tenaceous liquids t!rough cotton, place a nicked cork in the neck of the funnel before inserting the cotion ; this will allow free passage of the liquid through the cotton, the nicks in the cork preventing the cotton from being foreed down the neck of the funnel and becoming so compact that theliquid cannot passthroushiit. In this way fittering can be carried on for several days without renewing the cotton.

Never keep more rubber goods on fand than you can dispose of in a reasonable time (about onc or two monthis).

Morphine solutions should be made by dissolving the morghine in as small a quantity of the solvent as possible and then adding the remainder. By adding all the solvent at once to the norphine, a much longer time is nccessary, and not all may dissolve-Druggiks' Cürcilar.

## Salol Suppositories.

The preparation of these articles gives somedifficalty unless great care is used. M. Inarnoarin calls attention to the fact that salol, which melts at about $40^{\circ}$, remains liguid at a dower tennerature, cen down to $1 \geq 0$ or $15^{\circ}$ if kept quict. Moreover, the trac melting point of a misture of salol and cacao butter (in which the salol is soluble) is mech lower then that of rither of itsoonstituents. Consequently, a liguid mass very hard to solidify, results when the ingredients are mixed. He, therrfore, recommends that the butter shall be melted, and not allowed to rise far above its melting point, at which temperature the salol is mixed in. An casier method is to rub the butter and salol together into a paste in it mortar, and press the mass into the frozen moulds. -Irgertoire ic jharnacie.
A.staspasmine-This nomedy is formed by the combination of one molecule of the soolium compound of narecine and three molrcules of sodium salicylate. It contains $\mathbf{3 0}$ per cent. of narceine. It is a whitr, slightly hygroscopic powder caily soluble in water. Exposed to the air.jt deposits narccin, owing to the alvorption of carbonic acid with the formation of sodium carbonate in which narocin is very. incoluble-Jourinal de Pharmacie dini ress.

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## Japanese Camphor Trade.

The total purchases of foreign exporters reached 1713 tons, which is below the businuss of an average year. Prices ruled in favor of Jamanese producers, the lowest having been 35 dols. per picul of 133! lbs. in Mny, and the highest 63 dols. in December.
These figures represent common crude camphor, which, during the jear, has been doctored and adulterated worse than ever, in spite of high vilues paid, and the stron: protests of purchasers, somo of whom now absolutely refuse to have dealings in canphor which has not dramed in the warehouses during at least forty-eight inours.
The Formosit drug threatens Japanis monopoly, whenever work in the interior can be conducted regularly and free from the dangerous attreks of aborigincs.
The camphor tree of Japan is a huge evergreen of singularly symmetrical proportions and not unlike a linden. Its blossom is a white llower, and it bears a red berry. Some of the trees are fully 15 feet in diameter, and are upwards of 300 years old.
In times gone by camphor was produced in Sumatra ant Borneo, and in other parts of the East Indies, ats well ats in China; now, however, the crude catuphor of commerce js a product of Japan and Eormosa exclusively, the Formosa supplies havingsince the war between China and France been very sumall and uncertain until lately, when ti:e industry wist resumed by a German syudicate, upon concessions obtained from the Clinese Viceroy of the island, leading to increased cxportation.
lfowever, great diticulties remain to be surmounted before the trade can bedepended on, for the trecs are only found inhand, where the inhaivitants are aborig. inai barharians, who make matters most unpleasant for explorers.

The Formosia dru:s is inferior to the Japaness, the latter hy reason of its great purity, piakish color, and bold grain commanding in forcign countrics highor prices, by some 2 per cent. or 3 per cent, in spite of its comparative aljundance.

The aimual cexport of Japan cauphor merages about $\overline{\mathrm{E}}, 000,000 \mathrm{lbs}$, of which about one quarter reaches the United States of Americi either direct or via Fiurope, the reaminder being shipped to Eurome, exccptingis samall yuanticy sent so Tridia.

The districts i:a Jayan famed for camphor trors are Kiushin, Shiliohu, $\mathrm{J}_{\mathrm{Sn}}$, Surnga, Ise, and Eishiu. Tlie Forests, omuch by the prople, are now almost denuded of timber, and very little will be left in few ymars hence However, the (Goverament forests are still very rich in in camphor trecs, and it lans been estimated that this alone will maintain annually during the uext trenty-five years, the full average surpily of crude camphor.

Fornerly very little care was bestowed upon the preservation and cultivation of this raluable timber More recently,
however, not only the Government, but also the people have been giving to this most importunt question the attention it long ngo deserved. Numerous young trees have now been planted, and their growth is bring carefully tended. Consequently, aldhough hitherto the youngest wood from which camphor was. extracted was ibbout seventy or cighty years old, it is expected that under present scientitic management the trees will give equally good results after twenty five or thirty years.
The roots contain a much larger proportion of camphor than the trees, 10 lbs. of crude camphor out of 200 lbs . of woodchips being thought sitisf:actory. The Suruga timber gields a much smaller percentiage.
In a village in Kochi (fosa) there is a sroup of thirteen trees about 100 years old ; it has been estimated that they. will produce $40,000 \mathrm{lbs}$ of crude canmhor, and are worth, as they now stand, 4,000 silver dollars.

It appears that the only process of extracting camplior from the wood among the mountains in this Empise, and the materials used, are of the roughest and most unscientific deseription. The woodchips are boilch, the: vapor being conducted into a receptacle containimg several partitions, surrounded by cold witer. In the sides of the partitions are apertures alternating contrarily, which, when open, cause the rapor to fill the divisions hy a circuitous routc, thes improving tine grain of the cauphor.

The crude article is brought to market, as :t rulc, in very sudely constructed wooden tubs.
To make it fit for shipment requires much work, diizgence, and experienceEach tub is carefully sampied, vertically and diagonally, and the: samples are tested by fire and sometimes by alcohol. If no solid adulternat is discovered, the condition of the dru: is next inquircd into the dilliculty of this step being best explained by at once stating that this crude can:phor contains a guantity of water, or oil and water, varying anywhere between 5 per cent. and 30 per cent.

This trouble overcoane, the rest is commeatively casy, and consists in weighiug, cutting, mixing, and packins for ship. mont, the packing being in tubs prepared on the premises, partly out of the onginal packiges.

Oi course the camphor cannot be packed in its present condition, much of it lass to be draincel and dried, and frejuently at special parcel of "dry" must be bought, at a very high figure, for mixing with it. -(Cmasu!nr Mejorl) - Mharm. Jour.

## The Cholera in England.

Eighteen denths have occarred during the week, alrout which there secens no douit as to Asiatic cholera being the cause, one being that of a cleaner at the Mouse of Commons. At Grimsby 26 iresh cases have occuricul daring the weti
commencing September 7th. At Cleothropes, on the 10 th , there were 18 cases under treatment. None have been reported since, At Hull 24 cases have been reported up to yesterday, Sept. 14th. The general outlook is better. Owing to the coal strike, several tradesman at liarnsley kept their windows protected by shatters. A chemist who sdopted these precautions redeened the injury done to trade to soine extent by advertising a certain specific for cholera on the sliutters. At a mesting of the City Commission of Sewers on the ligh ult, it was suciecested that London be partitioned off to medical otlicers, who should be responsible for the treatment of choleraic complaints, and that chemists should dispense the prescriptions at the public expense. This was done in 1860. In a letter which has been going the round of the Press, Mr. Ernest Eell, M. A., gives several cases which point suspiciously to the cating of mblits as a source of cholera, and raises alarm as to the disposal of inoculated rabbits after death.-1i. and C. Drugyist.

## Saccharin and Salicylic Acid.

These two bodies appear to ber-found together in several liguids, espectilly beers and wines, and Mr. Hairs has published the account of a research on the best method of detecting them when so combined. The well-knowin reaction of transforming the saccharin into salicylic acid by a potash fusion must, of course, be abandoned. So he employs the following process : The liguid is evaporated after beings rendered alkaline, as ustual, with sodium carborate and wiashed sund addedias it gets syrupy: The residue is exhausted with alcolool, and the liguid distilled. The residue is taken up with water, and this solution, acidulated with sulphiric acid, is extracted with ether, which is separaled. and distilled, with the suddition of a few drops of solution of sodiuso bicarbonate. The mesidue is dissolved in hydrochloric acid, and a slight excess of bromine water is added. The mixture is strongly sisitat. ed in order to arglomerate the precipitato oi bromosalicylic acid, and after a short time filtered. The filtrate is freed from excess of bromine by passing a current of air through it, and then agitated with cther. The ether is separated and evaporated with in few drops of sodium bicarbonate solution, ind the cimaracteristic swect residue is leit. Sy fusion with potasl, the sacelarrin is converted into salicylic acid, and tested in the usual way. A mixture of $\overline{5}$ miilegrammes of saccharin and 7.5 millegrammes of salicylic acid is casily detected, and no fear need be enteriained as to the poasibility of any salicylic acid escaping precipitation, and so giving the reaction aceredited to the saccharin in the filtrate: for experiments showed that ferric chloride did not give the faintest reaction with the filtrate aiter precipitition with bromine-. Tour. de Pharm a'Anvers

Pscudoconhydrine is oftained frouz coniunseed, and is an isonier of corithydrine.

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 cent．jroverl worthiess
＂Lostale＇s Soltable lhengle＂will destroy she infection of all Fevern


 1figheat Enaitary Anthoritics of the day：
 garts cií the wuthl．

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robert wichtman，druceist，owen sound，ont．
Sole Agent for the Dominion．
 zad Lamlon，Oni，anal Wianiges，Man．

## Inks for Records and Important Documents.

We find the following in the l'apier Zoituny abstracted from the Arbeiten ans dem haisorliche Gesundheitsumte:
'The normal inks required to be used :ts document inks by the Danish govermment belong to two ciasses. The tirst class is an iron and nut.gall ink, which must possess the following properties: It must contain not less thian 4 gin. of iron to the liter, and it must stand exposure in an open wessel for not less than fourteen days without throwing down any sediment or becoming mouldy; it must resist light, air, water, and alcohol.

The test for the iron is made in any of the common ways; that for stability is made by exposing to the light and air 25 cem. of the filtured ink in a meducine glass of 500 cem. eupacity, the top of which is covered with is paper eapsule or other device for keepping out dust. Auother portion is exposed in a similat manner, but without the capsule. The latter is to test for moula-resisting power.
Au jak of this deseription is represented by the following formuli: :

|  |  |
| :---: | :---: |
| (iallic acill, gure, crystallizel. 7.7 g m. |  |
| Irun sulphate. | 311 |
| (Gumanescia | 10 : 11 |
| Cartrolicatia |  |
| -lruchlor |  |

The tamin caa le replaced by the commercial tannic: acid, but if the latecr is used a sullicient quantity thercof must be takea to represent the siven anount of absolute tanim. The amotant of hydrochloric acil necessary is that which will represent $\equiv 3.5 \%$. m . of hydrogen chloride. The above tigures are for 1 liter of ink. This ink is tested in the following manner: Writing or drawing is made with it on rag.paper, and the docuncat is then exposed for threc sumamer months to the direct action of sualight. It is then washerd with water and afterwand with alcohol, and diried. The marks must remain black and legible.

The stiond class of inks are much inferior. ill that is demanded of them is that after at document hiss been written for cight days it uust not yield to cither water or alcohol. It is not required to remain longor than three days without deposit, when submitted to the action of light and air, is described above for class one, but must not become mouldy in less than fourteen days.

Of the copying inks, it is required that they stand the tesits for durability, cte, of class one ; and, further, that they shail copy well after : document written with thesin is it least twenty-four hours old. It is further required that they shall not be sticky or gummy, even when not subjected to the copyinig process.

Lemoas may be preserved by the very simple proacss of "arnishing thena with is solution of shellac in spirits of wine. Fresh lemon juice iṣ thus obtainable at all scasens.

## Is it Possible to Produce Fluid Extracts of Such Strength that they can be Diluted with Proper Menstrua to Standard Tinctures.


(Chicf I)rugeist of the Dhainhelphiat Hespitat. Rean at the meeting of the Georgi: 1harm. Assuciation.)

Examination of this query shows that its aftirmative answer linges upon the possibility of making fluid cextracts which, properly diluted, yield products identical in the proportion and kinds of proximate principles found in tinctures made by direct exhustion of the drus.

Can such fluid extracts be made?
If they can be, there is no need of making drug-linctures, or tinctures from drugs; all that is necessary is at line of hluid extracts, and propur dilution, as wanted. If they cianot be made, then the practice should be condemated. The issuc is a plain one; and the necessity of an accurate determination of the question demands the serious consideration of every thoughtful pharmacist.
If such tiluid extracts can be made, it is olbious that certain conditions must exist. These are:
(1) That the physical conditions under which the drug is exhausted shath be the same in making the huid extract as in makins the drug tincture.
( 2 ) That the menstruum cmployed in making the fluid extract and the drug tineture shall be identical.
(3) That in the making of the iluid extract the drug shall be exhintusted of all the proximate principles present in the drug-tincture, and in as great is velative proportion.
(f) That the lluid extract shall not be: sitered in composition by heat, from concentration of purcolate.
(i) That the fluid extract shall not precipitiste: proximate principhes on storing, and bave these remored before being used.

It is not a dificult matter to i:ave the physical conditions of drugevhaustion the same in making a fluid extract is in making is drug-tincture If, however, there is a change or difierence of menstruam, it is manifest. there must be in change or difference in the proximate principles dissoived; but this will be se ferred to later.
If fluid extracts atre to serve the double purpose of being used for making tinctures amd also for their orn virtues, it is essential that they continia all the soluble, proximate principles found in druy tinctures, and in as great relative proportions.

Wherever medicinal action obtains, the therapeutically active priuciples of a vegetable drug are soluble principles, that is soluble in water or alicoliol, or a mixture of the two. Ill the solitible proximate priaciples of a vegetable dras are not necessarily therapeatically active, iut in the immature condition of the rational the mpeuties of our times, as to the changers
produced by drugextratetives in cellular contents in disensed conditions, who can saty that a given extractive of a drug laying medicimalativity is inert or without medicinal value? At present, clinical avidenco decides, most largely, the therapeutical worth of a drug or its prepara. tion.

The aution of a drug.or its representative is excrted upon the cellular contents of human tissue or tissues in which the drug acts, modifying one or all of three cellular activitios, $i$. c., (1) nutritive, (?) fuactional, and (3) reproluctive. Thic functional activities of cells being the unost obvious, they have been tho most carefully noted by therapeutists, indeed the modcrn description of the therapeutical action of a drag is ahmost wholly limited to a description of the functional disturbances produced by it. When it comes to a doscription of the modifying intluence of druss or their representatives spon the the nutritive and reproductive activities of cells in disease, modern therapy has little to say in comparison with the attention paid to functional changes. In therapeutical experiments, unless a.change be: obvious, it is too oftell assumed that there is no change, and yet the nutrition and reproduction of the cell may be notably affected and not be obvious. Further, the activitirs of nutrition :nd reproduction are vitidy connected with the existence of the cell, and most probably inlluence its functions; mutrition, certainly, plays : most important part in alfecting functions.

In addition to the necessity of fluid extracts containims all the proximate principles of drugs foumd in drug.tinctures (if they are to be used for making tinctures), it follows, of course, that they should bis present in as great it relatice proportion, so that the extract-tinicture and the drugtincture be equally representative of tho drug in the amount of proximate principles present.

No isolated proximate principles, such is alkaloids, glucosides, cte., can represent the total therapeutical activities of $a$ drug. They represent their individual, therapentical actions only, and nothing more. Tha lotial activities of a drug citn only be had from the drug itself, or a preparation of the drug representing all the therapentically :ctive proximate principles as they exist in the drus. Heace, for example, aconitine, liyoscyamine, digitalin, and quinine represent their individual activitius only. They do not represent the total therapcutical activities of aconite roo:, hyoscy:anus leaves, digitalis leaves, anil cinchona bark, respectively, for these drugs pussess ollher proximate principles. which have a therapentic worth over and above that of the principles mentioned. It dons not follow, either, that tinctures and fluid extracts necessarily representthe foral therapeutical setivities of drugs. They represent only the therapentically active principles soluble in the menstrua used to exhaust the drugs, due allowance being made, of course, for those precipiti. ted and removed.

WYilist alkaloids, glucosidec, ote, do not

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# WM. RADAM VINDICATED. 

The Radam's Microbe Killer Case Settled by a Verdict for the Plaintiff.

[From the Mail and Express, New Sork, Mfay 10, 1898.]
The case of William Radan, inventor of Radan's Microike Killer, against Dr. Eccles amil the "l)ruggists Circular and Chenical (iazette," was iecided yenterlay hy a jury fefore Judge indrews in the Suprence Court. Mr. Malam receivent a verdict amila complete vindication

 ing, but the testimony showed that it is an antiseptic gas impregnateel in water and montainel ano drugs.
"From the day of the publication of this article," sain Mr. Italam to day; "the ' Drageists' Cireular' has attackel not only myself and the microle Liller, but has assailed other members of my counpany and even my patients lat the attempt to injure me and my compung has failed andil have won my suit."
"I hal twenty witnesses in court, who testified, under oath, that they had heen cured by the micrele killer of many diseases after long and unsuccesaful treatment by proninent physicians. I had thirty other witnesses realy to bring furwarl, and also hati special cara it
 that they had been cured by the microbe killer of cancer, catarsh, dyspepsia, infammatory rhenmatism, hoorl proisoning, zethma, consumption, pnemmonia, diphtheria and many other complicated discasess.
"One of the charges made ly Dr. Fecles in the 'Drugists' Circular' was that if the miembe killer were taken interually in large hoses, it wonh be fatal, but I brought forwaril twenty witnesses who prosel that it was not poison when taken internally wen in the largest


 regaried as a miracle.
"I hat? among my witnesses tnany prominent people, including railroad officiais, merchants and professional men.
Dragsists who do not as yet carry our M. K. in stock will do well to order some from their Wholesaler or direct from us. Many siles are lost by people not seciog it in stock, hence they will not ask $2 s$ freely for it.
represent the total netivitios of druge, their isolation, where decomposition-products are not formed as n result of assay, is, next to clinical experience, the only means we have of estimating the therapuatic wortls of at drug-preparation, and it is of culue when and only when, the manufacturer of the preparation uses in its making, tho proper quality of crude drug. If he uses an inferior drug, and raises the untural amount of allaloid or glucoside to the proper standard by their extrancous addition, the preparation will noe represent the special activities of the superior drug, hut will represent those of the inferior drus plus those of the compound added.
'lois doctrine of the individuality of the drug as against the individuality of its socalled active principles, is no new doctrine. It has been repeatedly taught by Squibb and other authorities, but in their strong endeavors to secure greater uniformity in drug-preparations (a daudable ambition within certain limits), manufacturers have largely ignored its existence; claiming that the percentage of socalled netive principle is, of necessity, an index of the total therapentic value of the drugpreparation.

Apropos of this subject, Prof. Attlield gives, in a recent number of the Pluarma. centical...Journal anal I'ransactions: (July 15,1893 ) some very interesting datai hadd. from an examination of certain samples of ipecacuanhat. After showinge the results of his analysis, and stating that white such an alkaloid, as say quinine or morphine, has, at least, fixed and detinite properties, the so called "emetine" has not yet been obtamed in sufficuently fixed and delinite condition to emable us to say that it is one single substance; emetine, and nothing else. IIf: further states thiat the acids and alkalies used by analysts in the isolation of the emetine atticek it and render its yield inconstint, and silys:
"It is to be hoped thith any fature authoritatively enjoined 'standiardization' of ipecencuanha founded an proportion of cinctine will be therepentica!! ! $y^{*}$ sitisfactory, but such a position is not yet attainell. Imiket, it roont! scem that ipecachamhar root from uchich all 'cmefine' is remoral still has pharmaroloyical valur:- The latter may or may not run parallel witit perechtage of cunctine: moinuhite, mar nily peaile is "cmetinc,' estimated with all attainable accuracy:"
So, it is a serious question whether tinctures made by diluting diluid extranets, evon thoutyh the; latter lec assayod, are :Ls good from a therapentic stindpoint is those made from the crude drug. Uuder certain conditions, it would secm as though some might be, but are they? is before said, alkiloids, glucosides, etc., do not represent the total therapeutical acticities of druge, and ceren if the relative strength of so called active principle be the same in the "extract.tincture:" as in the "drusetincture," it indientes but one thing-the strength of the preparation in nikiloid or glucosids. It camot indicate the amonnt of the other proximate principles of the drus. As in the case cited

[^0]above, these latter may or may not run parallel with the alkaloid or glucoside.
The extractive matter of a drug (apart from the so called active principles) has in many eases positive therapeutical worth, otherwise alcoholic or dilute alcoholic solations of so called active priaciples should yield all the thempeutical results of drus tinctures; and wa know they do not. 'Ihat tincture only, then. is ollicial, which contains all the therapeutical'y active constituents of the drugs-alkaloids, glacosides and other extractive matter inclu. ded-soluble in the menstruum oflicially directed for the tincture.

In those cases where it it is yossible, in the making of a fluid extract, to exhatust a drug of all its soluble proxianate princi. ples without the deleterious use of heat, and without subsequent precipitation of proximate principles with their necessary removal by filtration, it wonk seem is though a tincture made by diluting such thuid extract should exhibit the same proximate constituents of the drug, in the same proportions, as the tincture made from the same sample of crude drug. But, it is evident that this can be the cass, under such conditions only, when the menstrutem used in the making of the fluid antract iv the same as that used in the muthing of che droug-lincture. A change in alcoholic strength of menstruun used, always results in a change of the proportions, and in the same cuses, of the kinds of proximiate principles dissolved.

As an example of the iniluence changes in menstrua exert, a practice of the list Piarmacopulia may be cited. In the making of fluid extracts, the 1570 issue directed that the last portions of the percolate should be evaporated to it certain volume, and mixed with the reserved portion. This resulted in precipitation of proximate principles, owing to the fact that through evaporation of the inst portions of the percolate the more volatile alcohol was most largely removed, leaving a weakly alcoholic liguid to mix with a stronger alcoholic one : hence precipitation occurred. In 1SSO, this practice was changed, and the list portions of the percolate are now evaporated to extractive. thercby eliminatifis both alcohol and water, and this is dissolved in the reserved percolate.

As a rule the more strongly alcoholic a menstruum used, the more rapid the exliaustion and the less extractive matter dissolved, whike the more argueous a menstruam, the slower the exhaustion and the greater the amount of extractive brought into solution. Hence, it is clear, that is tincture prepared from is fluid extract made with ia certinin menstruum, must, of necessity, be a different prepirarition in the proportion and; in some cases, of its kind of proximate principles, from a tincture of a crude drus made with a different menstruum.

It is a siguificant: fact, that in number of importaint oflicial tinctures are directed to le made with menstrua difierent in al. cobolic strength from those ordered for corresponding fuid extracts; and this dif-
ference makes it impossible, in such cases, to obtain, by diluting tho flüid extrictes, the same therapeutical representatives of the drugas exhibited in the drug.tinctures.

The following table of certain official tinctures, showing the strengths of inenstrun for the tinctures and corr sponding fluid extracts is of interest:

| Name of Drug. | Menstrunn for Iineture. | Menstrulain for Fluid Extract. |
| :---: | :---: | :---: |
|  | (larta) | (larts) |
| Dientalis | A $1,1 \mathrm{l} 1$. | $A: 3, W 1$. |
| lecllalonu: | A 1, W1. |  |
| Hyosey:unus | A 1, W1. | A 3, W 1. |
| Stranmonium .... | A 1, 11. 1. | A 3, W J. |
| IRhuliul) | A $1, W 1$. | A: W1. |
| Hyolrustis | A $1, W 1$. | A 3, W1. |
| Serpentaria. | A $1, W 1$. | A 3, W 1 . |
| Cubels. | A $1,11$. | $\ddot{\Lambda}$ |
| Sanguinari:....... | A $2, W 1$. | A. |
| Syuill........... | A $1,11$. | $\Lambda$. |
| Colchium Secl. . | A 1,1 . | A2, W1. |
| JitterOrange P'eel | A $1, W 1$. | A 2, wi. |

A., Alcohul ; W., iVater.

From this table it will be seen that, in the cases mentioned, much more strongly alcoliolic menstrua are used for iluid ex. tracts, than are directed for corresponaling tinctures; and this must result in a certian relative difficrence between the two preparations.

A good illustration of the changes attendint upon $a$ difference of menstrua may be found in digitalis infusion. It is now accepted that the most important proximate constituents of digitalis leaves :are Schmiedeberg's digitalin, with digitoxon, digitonin and digitalein. These may be grouped into two clnsses according to solubility. First, those soluble in alcohol and insoluble or almost insoluble in water; second, those soluble in both alcohol and water. Digitoxon and digitalin belong to the lirst group, and digitonin and digitalicin belong to the second group. It will be seen that the tincture and fluid. extract contain, most largely, digitoxon and digitalin with some digitonin and dig. italein, whilst the infusion contains digitonin and digitalein with no digitoxon or digitalin. So, the making of infusion of digitalis from the tincture or fuid extract (as is sometimes done) sliould be condemned, as such a practice will not yield the same prefaration, therapeutically, is that had by direct infusion of the leaf.

When we come to those drug-tinctures havines the same menstrua as corresponding fluid extracts, we should naturally expect; if perfect exhaustion of the same sample of drugs las been had in both cuseris. that the drug tincture and the extract. tincture would be equally representative of the drug. Theoretically, this may be true, but, practically, it is a question is to whether it holds good as ar rule. It miny be the case in some fow fluid extracts, but in others it certaiinly is not. Take valerian tincture for example : made by drug exhaustion it is one thing, made by ex-tract-dilution from $\dot{r}$ fluid extract of the same sample of drug, it is quite another t!ing.
But, it may be urged, what eyidence is there that drug tinctures are theraprentically superior to extract tinctures? The

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best of evidence in such a matter is clinical evidence. As beforo remarked, it is clinical experience which is necepted nownelays, to prove the thempeutical worlh of a drug or its preparation (ratiomal thern. peutics has failed, as yet, to be accepted by practitioners unless confirmed by clinical evidence), and clinical experience contirms the view which practical pharmacy tenches-that a tincture made directly from a drug is stronger and better tham a diluted lluid extract; no! it teaches more -it tenches that a properly made tincture is atronger relatively, than a fluid extract made from the same drug, for the reason that the nuxuimum eloses of fhutel extracts are, ine many cass, if not in all, whativ. ly greuter than those of tinchures.' In other words, it requives more of the drug, relatively, as represented in a fluid extract, to proluee its therapeutical effect, than it does of the drug as represented in a drug.tincture.
The following tables of oflicial tinctures are of interest. The doses of thuid extracts are those given by four of the leading manufacturers of this country, for their products. The prolucts stated to be assayed, are so marked. In some cases the maximum doses of these latter are less than those of the non-assayed products; in other enses they are more.

Examination of these tables shows marked differences between tha relative maximum doses of lluid extracts, and those given by manufacturers for their products; and it should be noted that the manufacturers mamed fairly agree, in many cases, as to maximam loses.

If the contention that representative tinctures of drugs can te properly made by diluting fluid extracts be truc, it logically follows that the relative dose of a given tincture and lluid extiact should be identical. If the 10 per cent. tincture of drug $A$ has the dose of sixty minims, the 100 per cent. fluid extract of drug $A$ should have the dose of six minims, the difterence between the olficial per cent. by weight for tinctures, and per cent. by volume for Iluid extract making no materina differ. ence. The dose of cinchona tincture being 30 to 120 minims, the dose of the fluid extract (being about five times as strong) should be one.(fifth or 6 to 2.4 minims; yet we find the dose as usually given is from 15 to 60 minims.
If dose is any criterion of drug-strength at all, it follows that the dose of tincture and fluid extract shoulal be relatively the same, if the latter is to be diluted to make the former ; othrorwise there must be a certain difference between the proportion and the kinds of proximate prin-
ciples in the drug.tincture, as compared with those in the extract-tincture. Practically, it seems impossible, save in some few cases, to obtain fluid extracts which will have the sano ralative dose as the drug.tincture, for the actiul dose of a fluid extract is not of necessity its relative dose compared with the dose of the tincture; and if this be so, the making of representative tinctures from fluid ex. tracts is impossible. Manufacturers of fluid extracts are not to be blaned for this ; it is a condition of drug-exhaustion over which they have no control. In the making of tluid extracts, manufacturers may exhaust ${ }^{4}$ drug of all its soluble proximate principles, obtaining them in solution, but on storing the fluid extract for a time before selling, which is always done (or if it is not done, the fluid extract precipitates afterwards), the productinvarinbly yiclds, through certain changes, precipitates of proximate principles more or less voluminous in character, and more or less valuable therapeutically. Thesn are removed by decantation and filtration by the manuficturer before the product is sold.

It does not follow that fluid extraets so treated are accessarily inferior, they may be of axcellene quality for fluid extracts, but hey are not relatively as strong as

TABLE NO. 1.

| Namparymus. | $\left\|\begin{array}{c}\text { Percentage } \\ \text { of } \\ \text { Di ug } \\ \text { in U. S. iz. } \\ \text { Tineture } \\ \text { (hy weight })\end{array}\right\|$ |  | Increased Strength of Fluid Extractin Drug. (times.) | Dose of Tincture | Melatite <br> Dose of Fluid lixtract. | $\left\{\begin{array}{r}\text { Do } \\ \text { Fl } \\ \text { lixt } \\ \text { Manf }\end{array}\right.$ | ase of Inid tract of factut's At | $\left\lvert\, \begin{array}{r} \text { Di } \\ \text { FI } \\ \text { lixt } \\ \text { Manu! } \end{array}\right.$ | of <br> uid <br> ract <br> of <br> factur's <br> 13. | $1)$ Fl Fint An |  |  | os <br> aid <br> ract <br> f <br> netur'r <br> U. | $\left\{\begin{array}{r} \text { Ave } \\ 0 \\ \text { Man } \\ \text { Maxit } \\ \text { Do } \end{array}\right.$ | rage f fact'rs num. ses |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Aconitc lleot. | 40 | 100 | 2.5 | l-3 Min. | -7.11/E Mim. | ${ }^{1} 2$ | Nin. | $\frac{1}{2}-1$ | Min. | 1.2 | Min. |  | Min. $\dagger$ |  |  |
| Jellad'na leaves | ! 15 | $100{ }^{\circ}$ | 6.6 | $5 \cdot 20$ alin. | 8 83 4 | 1-4 | " | $3 \cdot 5$ | - | $1 \cdot 4$ | " | $2 \cdot 3$ | " | 4.5 |  |
| CamabisIndica | $\underline{90}$ | 100 | -0 | 5.30 4 | 1.6 | 2.8 | " | $2 \cdot 5$ | " | $2 \cdot 5$ | " | $1 \cdot 3$ | " + | 5.25 |  |
| Cinchoma. . . . . | , 20 | 100 | -6.0 | 30-120 ${ }^{\text {a }}$ | $6.24{ }^{\text {c }}$ | 115.60 | " | 12.60 | ${ }^{6}$ | :31.75 | ${ }^{1}$ | 60-120 | " $\dagger$ | 78.75 | ${ }^{1}$ |
| Colchicmm Scel | 15 | 100 | 6.6 | $10 \cdot 60$ | 12.9 " | 2.8 |  | $5 \cdot 70$ | ${ }^{6}$ | 2.5 | ، | $2 \cdot 10$ | " + | 8.25 |  |
| Cominnr. .....l | 15 | 100 | 6.6 | 15.60 " | 27.9 | 15.20 |  | $2 \cdot 6$ | " | $2 \cdot 10$ | ${ }^{6}$ | 3.10 | " | 11.25 | * |
| Digitalis | 15 | 100 | 6.6 | 5.30 ${ }^{1}$ | 1.4. ${ }^{1}$ | 1-4 |  | 2.5 | ${ }^{6}$ | 4.15 | * | 2.5 | ${ }^{6}$ | 7.25 | * |
| Gelsemium | 15 | 103 | 6.6 | 5-20 " | $3 \cdot 3$ | 1-6 | ${ }^{\prime}$ | 5.10 | ${ }^{6}$ | 4.15 | " | $1 \cdot 3$ | " | 8.5 | 4 |
| Hyoscyamus. | 15 | 100 | 6.6 | 10.60 " | 14.9 | 1 $4 \cdot 10$ |  | ¢-10 | ${ }^{6}$ | $5 \cdot 10$ | " | $5 \cdot 10$ | " | 110.0 | " |
| Nux Vomica . | 20 | 100 | 5.0 | 5.30 * | $1 \cdot 6 \quad 3$ | 1.10 |  | 1-5 | ${ }^{4}$ | 1.5 | " | 1.5 | " $t$ | 6.25 |  |
| Stramoniull. .-1 | 10 | 100 | 10.0 | 111.30 " | $1 \cdot 3 \quad 4$ | 1.4 | " | 1-3 | " | 1-3 | * |  | ${ }^{4}$ | 3.25 | " |
| Verat'm Virill | :50 | 100 |  | $\underset{\text { 1-4 }}{\text { (2.8 drons.) }}$ | 3.2 " | $\underline{2} 2$ | 1 | $2 \cdot 1$ | ${ }^{6}$ | 2.5) | * | $2 \cdot 8$ | ، | 3.75 |  |
| * Not Oflicial. $\dagger$ Assaycl Eluil Extract, |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |


| Name: Oflinic. | Percentage of l)rug in U. S. $1^{3}$. Tincture. (hyweight) | $\|$Percentage <br> of <br> jrug <br> in U. S. 2. <br> Finid <br> Extrat. <br> (by volnme. | Increased Strength of Fluid Evtract in Drug. (times.) | Dose of Tincture. |  | Belative <br> luse of FJuil lixtract. | DaseofFinialJExtrutofMamufactur'sA. |  | DroseofFluidExatractofManfactur'r13. |  | DoseofFluidExtractofManfactur'rC. |  | DuseofFluidlixtractofaiauufactur'r1). |  | Average of Maximum Manuf ct'rs: Doses. |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Capsicum | 5 | 100 | $\because 0.0$ | 10.60 | din. | 83 Slin. | 5.15 | Min. | 5.10 | \lin. | 3.5 | Ilin. | 1-5 | Min. | 10.0 | Nin. |
| Cinuicifuga | 20 | 100 | 5.0 | 60.120 | ${ }^{6}$ | 12.24 - | 15.6\% |  | 10:30 | $\because$ | S.30 |  | 30.60 |  | 50.0 |  |
| Culuel) ... | 10 | 100 | 10.0 | 30-12.) | $\stackrel{ }{ }$ | 312 " | 10.20 | " | 15-20 | ${ }^{6}$ | 30.120 | " | 10.30 | ${ }^{6}$ | 47.5 | 6 |
| (ientiau(Comp) | S | 101* | 12.5 | (0).2.20 | " | 4 4/5.191/3' | 10.40 | ، | 30.60) | $\because$ | 60.130 | " | 30.60 | ${ }^{6}$ | 70.0 | * |
| Hops ...... | 20 | 100 | 5.1 | 60.180 | * | 12.36 | 15.60 | " | $30 \cdot 6!$ | * | 3060 | * | 30.60 | ${ }^{\prime \prime}$ | 60.0 | " |
| 1 ydrustis | 20 | 100 | 5.0 | 30.60) | * | 6.12 " | 10.3) | " | 10.3:1 | ${ }^{6}$ | 150 | * | 10.30 | ${ }^{6}$ | 37.5 | ${ }^{6}$ |
| Krameriii .... | 20 | 100 | 5.0 | 120.120 | ${ }^{6}$ | 6.24 " | 15.31) | " | 30.60 | $\cdots$ | 1506 | ${ }^{\prime}$ | 30.60 | ${ }^{\prime}$ | 52.5 | $\bullet$ |
| Joobelia .. | 20 | 100 | 5.0 | 10.60 | * | 2.12 " | 10.20 | ${ }^{\prime \prime}$ | 10.34) | * | 5.30 | " | 5.30) | ${ }^{\prime}$ | 27.5 | ${ }^{6}$ |
| Matico | 10 | 100 | 10.0 | 30.60 | * | $3 \cdot 6$ | $1 \overline{5}$ ( $0^{(0)}$ | ، | 30.60 | ${ }^{6}$ | 30.60 | ${ }^{\prime}$ | 30.60 | " | 600 | ${ }^{6}$ |
| Quassia | 10 | 100 | 10.0 | 30.60 | * | 3.6 | 5.15 | ${ }^{6}$ | 313-60 | ${ }^{\prime \prime}$ | 3061 | * | :0.60 | " | 48.75 | ${ }^{\prime}$ |
| Serpentaria .. | 10 | 100 | 10.0 | 60.240 | " | 6.24 " | 15.310 | " | 30.60 | * | 50.60 | ${ }^{\prime \prime}$ | :1). 60 | ${ }^{\prime}$ | 52.5 | ${ }^{4}$ |
| Sumbul .. ... | $11)$ | 100* | 11.0 | 118.60 | ${ }^{\prime \prime}$ | 1.26 | 1030 | ${ }^{*}$ | 1.7 (i) | ${ }^{6}$ | 15.60 | ${ }^{\prime \prime}$ | 15.60 | ${ }^{\prime \prime}$ | 52.5 | - |
| Valcri:nn...... | 20 | 100 | 5.0 | 30.180 | ${ }^{1}$ | 6.36 | 31).61) | " | 15.30 | " | 30.150 | " | 15-31) | ${ }^{6}$ | 67.5 | 8 |
| Zingileris .... | 20 | 100 | $\overline{5} .0$ | 30-120 | ${ }^{\prime}$ | 6-24 " | 5.20 | * | $5 \cdot 40$ | " | 5.30 | ، | $5 \cdot 40$ | " | 32.5 | 4 |
|  |  |  |  |  |  | Not Official. |  |  |  |  |  |  |  |  |  |  |



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 $\xrightarrow{306}$One or two Agencies of Specialties or Proprictary Medicines Wanted.
Can undertake the Canadian Management of any Manufacturers desiring to place their goods in this country. Intimate knowledge and connection with the Wholesale and Retail Drug Trade of the Dominion.
drug. tinctures. It is elcarly unceasomablo to chain that the same tincture can be had by extract-dilation as by drugexhatustion when more or less of the proxi. mate principles of the drug have been removed from the fluid extract used for dilution.

It is a mistaken belief to suppose that a delinite relation exists between the tincture and the lluid extract in the samount of drug represented ; that, for example, a $100^{\circ}$ per cent. iluid extract represents five times as much drug as a corresponding twenty per cent. tincture. $A$ due allowance must be made for the removal, by the maker, of proximate prin. ciples precipitated by the fluid extracts, admitting the possibility, of the coneentrating in fluid extracts of all the soluble principles of drugs. Hence, under the best conditions, the making of tinctures by diluting thaid extracts camot yield products equaliy representative with drugrtinctures, unless perfect exhaustion of drugs be had in making the fluid extracts, and proper allowances be made for the claracter and anount of proximate principles separated from them; and this latter, from its variability, is out of the question.

It is in evidence, that fluid extracts and tinctures have distinct theraperetic fields; that they sary from each other in the relative proportions, and in some cases, of the kinds of proximate principles represented, and that fluid extracts dilated in the usual way cannot, of very meeessity, be the same things, theropeutically, as tinctures made from superior qualitites of drugs.

The practice of usius thuid extracts, ass:aycd or not, for making tinctures should be condenned, as inimical to the best interests of logitimate medicine and pharmacy. Only through the use of superior drugs and the making of his own tinctures according to ollicial methods, can the pharmacist know the quality of his proparations. How sin he vouch for the guality of a drug after it has been made up into at preparation if somebody clse lass made it?

Admitting that the manufacturer's preparation has been made from the proper quality of drus; aiter the drus has been cexhatusted of all its soluble proximate constituents; that the otlicial menstruum has been used; that the en ployment of heat has not affected last, portions of percolate, and that various amounts of precipitated proximate principles have not occurred in the fluide extract and been removel, what knoweledye has the practical phamacist of these facts? How can he vouch for the quality of a preparation, or rather the quality of its contained drug, unless he has made that preparation himself?

Further, granting tisis mannfacturers, as a class, use the proper quality of drugs in making fluid extracts, is it true that they always follow the directions of the otheial standard in the procedures and menstrua directed: Or, is it true that
tho ollieial standard is adopted in part as regards percentage of drug, ute., and procedares and menstrun aro used as suits the manufnetarer? Manufacturers, gener. ally, hay stress upon the fact that their Huid extracts are "itrictly U.S.P."" but do they all follow the oflicial standard in the procedures and menstrua, directed for difierent fluid extrncts? What is thos question. Sonse are frank enoutyl to admit that they use methods of their own devising for drugrexhaustion, and then evade the question of menstrua used, holding that their preparations represent those of the Tharmacopeeia if the drug has been exhatusted of all the proximate principles soluble in the particular menstruam they employ, despite the apparent intention of the Phamacoperia to have a preparation of a certetiu alcoholic strenght holding in solution cerlain proximate principles, some of which are soluble in thith strength of menstroum only.

So, as regards the preparation of tinctures, the only risht practice for the pharmacist lies in his buying the bust quality of drogs, and making his own preparations. In this way there is safety - safety for the doctor who proseribes, the drussist who dispenses, and last, but most important of all, the patient who swallows the medicine.

## Crystallization in Quinine Syrups.

In it late issue of the Chemiat ef Drug. gist, 1P. W. Squire gives the following comments upon Waston's Syrup, in reply to a paper on that sulyject which appeared in a previous number of the same journal :
iI never carried ont any detailed investigation.on the subject, as a few simpie experiments, made two years aro, pointed unimistabably to excess of acid as the dis. turbing factor. In this respect it is on the same line as the 13.P.C. Syrupus Ferri et Quininie Hydrobromatum, which also hats given rise to considerable discussion. In the correspondence initiated by Cripps, the only writer who comes near the mark is Green.
"T?!e acid lyydrobromate of quinine is soluble 1 in 6 of cold.water, but, as pointed out in last 'Companion,' its solubility is greatly reduced in presence of free hydrobromic acid. With the full B.P.C. quantity of acid the syrup is very prone to erystallize ; with half the quantity a slight separation takes place during very cold weather ; with no acid at all the syrup is absolutely permanent, except for at slight precipitation of ferric hydrate. It is obrious, therefore, that the propor. tion of acid in the 13.P.C. formula should be greatly reduced, say to a fourth of the guantity now prescribed.

With quinine and phosphoric acid, however, the case is rather more complicated. One point to be noticed is that the acid solutions are very apt to get into a supersaturated condition, in which erystallization way or may not titke place, accordinc to circumstances which I have never been
able to detines. A solution which will apparently st:ad any amount of slaking and stirring with a ghass rod will set to a tough solid mass on the introduction of 16 frayment of the acid phosphate, so that no solution ean bo considered permanent which does not stand this test. Another, and more important point, is that while any addition (up to a certain point) of freo acid over and above the quantity actually neessary to dissolve the quinine, tends to diminish the solubility of the acid phosphate ; past that point the action is reversed, and a harger exeess of acid again carries the phosphate into solution. For instance, 1 gramme of quinine trihydrate may be dissolved in 0.6 c . c. of Acidam Phosphoricum Concentratum, and with water 10 c. c. forms is permanent soIntion, but with 1, 2, or 3 c. c. of acid the solution sets to a tough, solid mass, dissolving when water is added to $15,2 \overrightarrow{4}$, and 30 c. c. respectively. With 4 or 5 c. c. of acid, crystallization is only partial, and with ( j c. c. the solution is again permancont.

If we come now to calculate the proportion of free acid to alkaloid in the 13 . 1. C. formula, we find that the great bulk of the acid is introduced by tho Syrupus Furri Phosphatis. Supposing this to be strictly 13. P., and the quantity used to bo 19 o\%. fluid, thes total acid, holding in solution 95 grains of alkaloid and 152 srains of ferrous phosphate, is equivalent to about 9.50 grains $\mathrm{H}_{3} \mathrm{PO}_{4}$. Now, it is quite possible to retain the 152 grains of farrous phosphate in permanent solution with 315 grains of $\mathrm{H}_{3} \mathrm{PO}_{3}$, which leaves (635 grains for 95 gratins ot a" hydrous alkialoids, or 6.7:1-correspondang approximately to the 1 gramme of laydrated quinine in 6 c. c. of Acidum Phosphoricum Concentratum in the series of solubilities detitiled above.
"The presence of sugar greatly lessens the solubility of the quinine phosphate in the acid liguid, but if the behatior of Biston's syrup follows the same lines as the above experiments, it may be expected (1) that a preparation made according to the J.P.C. formula and using the Syrupus Feri Phosphatis of the B.P., may be quite permanent: (2) if the acidity be reduced (to : ceriain point) the tendency to crystallize will be increised; (3) a further reduction in the quantity of acid will result in a syrup which will keep well, and be frec from the excessive acidity. inseparable from the use of the 13. P. C. formula:"

Siffgher's Albumen Reagent.-The following is an improved formuln recommended by the originator himself: Merculy bichioride, 20 ; turtaric acid, 1.0 ; distilled water, 50:0; and glycerin, 5.0. To use it, the urine to be examined is acidified strongly with reetic acid and is filtered; some of it is poured carefully over the reagent so thant the two do not perceptibly intermix, and if albumen be present the zone of contact will be white: -Centralld. f. Kllizi. Med.

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FIIAT when a concern has a preparation that won't sell on its own merits, or if desiring: to steal the fruit of anoheres sowing 1 ABE: I.WITATE A SUCCEESFUL ONL:
 Pemmyrogal Wifers, heennse if callinge it anything else, it wouhin': sell without enpenditure of considerable money to advertise it as others do, takiug thus a dishoncest advantige of what has leen spent to ctcote the incocasin; demand now lad for the gemane and original ficinayrayal Wilfers. They go still farther, amd ent the price on their prodnct to you, hoping thencloy to secure your co oferation ; failing to get results, they adh as another inducencm, "to ofive yon a gohl watch" $t(x)$; a still furtiter proof of its cheap worthlesaness. Can you lork your customers in the face and with houest vonviction of aining right sell them a sulstitute for the gemmine Pennyroyal Wiafers made by us, aml hy whose alvertising they have leen brongh: wour store to loy ? Si.6n per dozen is the price for the gennine, and no britne gitch, to cincomage yon to decive the public. feur continued fators as in the past will greatly oblige,

## IRespectully yours,

eureka chemical Coo., Detroit, Mich.

## Somo Now Remedies.

Ptwol.- - A new tat derivative, prepared by Ebermanm and laptschewski. It consists of a mixture of three parts of wood tar and 1 purt of green soap slighty heated together, to which are added, littlo by little, with constant stirring, 3 parts of a 10 per-cent. aqueous solution of caustic potash. The mixture at first thickens up slightly, but is immedintely transformed into alimpid liquid of darls brown color and of ath agremble tary odor. It is miscible with water in all proportions, does not stain the clathing, nor does it have any caustic action. It is equally good as lysol as a disinfectant, and is cheaper, besides possessing a much more agrecable cdor.

Bismuth Bema-Naphmolites. - This substance is chamed by 1 Hucppe to be the best intestinal antisuptic yet discovered, with the exception of bismuth tribromphemate (see below). It occludes SO per cent of bismuth oxide, and is said to be cqually ats ellicient in choleraic diartheras as in those of non-speceitic origit. Its virtues in this direction are vonched for by Nencki, Schubenko, and Blachstein. Dr. Heger presented specimens of the substimeo at at recent meeting of the Austrian Pharmaccutical Association. It appears as a brown, neutral, inodorous, non-astringent powder, insoluble in water but which is decouposed by the gastric thuid into beta-naphthol, which may be recovered from the urine, and into bismuth, which is eliminated in the stools. The dose is from 1 to 2 gm . in the course of twenty-four hours.
Bismutin Thmomphenate.-At the jast meeting of the Austrian lharmaceutical Association Dr. Heser presented a yellow, neatral, inodorons, and tasteless powier; which he designated bismuth tribromphenate, and stated occluded 50 per cent of tribromphenol and 49.5 per cent bismuth oxide. He clamed it to be the most energetic remedy yet discovered adazinst all intestimal sepses of bacterial origin, but especially against cholera, exceeding in this respect tribromphenol, which hiss hitherto held front rank as a bactericide. The new remedy seems to have no action on the inucosa of the intestinal tract. It is administered in doses of 50 cgm ., repeated up to as high as twelve to fifteen times in the twenty-four hours.

Bemoaniol.-This is the trivial name given by Schimmel to linalyle acetate, an ether recently introduced by him. It possesses an odor of bergamot, boils at $108^{\circ}$ to $110^{\circ} \mathrm{C}$., and is found existing free in the volati!c oils of liwender, bergamot, and of orange (petit yrain, derived from the umipe fruit). The acetate of geramyle, a similar and closely allied ether, hoiling at from $111^{\circ}$ to $115^{\circ}$ C., is similarly found free in the essential oils of geranium, lavender, and calamus. Its odor is exceedingly pleasant, recalling that of lavender.
Pambumetis.-A new phenol derivative whoso exact cincmical nature has not yet
been determined. It presents itself in the shapes of minute white, glistening, silky needles, inodorous, and but slighty soluble in cold, and but a trille moro so in hot water. According to Jules Orient, pheduretin is readily soluble in the gastric juices, and is absorbed in doses of from 1 to 2 gm . in twenty four hours. In heavier doses it reacts on the nervous system, pro. ducing abundant urinary secretion. It seems to be valuable in neuralgias, especially to migraine, in which it may be given in doses of from 50 cg to 1 gm. , repeated twice daily.

Sabicrlactirob. - The value of salol, and, later, of salophene, in rheumatic affections has found abundant recognition at the hands of the medical men of Europe and America, but the inconveniences attending tha use of these substances, and especially the readiness with which they become almost unbearable to a patient to whom they are administered for any length of time, have caused chemists to seek some derivative which is free from drawbacks mentioned. Such, it is chamed, is salicylacetol, which is as product of the action of monochloraceton upon sodium salicylate. In this substance as in salophene, the salicylic and is combined with a non-toxic body. Sialicylacetol crystallizes out of its hot alcoholic solution in long needles, fusible at $70^{\circ} \mathrm{C}$., insoluble in cold, and but ditlicultly soluble in hot water, casily soluble in hot alcohol, ether, carbon disulphide, chloroform, and benzol. In cold alcohol it is almost insoluble. -Nat. Druggist.

## Native Opium in China.

An extremely interesting section of the last Ibritisli consular report from Wenchow is devoted to native opinm. It appears that in the province of Checkiang opium was first manufactured in the prefecture of Tai-chow, lying between Wenchow and Ningpo, whence the still common name of laichow "pastce" The poppy next began to be grown for opium in other prefectures as well, Wenchow, among them; but for a considerable time it was customary to hire Trai chow men to collect and prepare the juice. Their monopoly of opimm harvesting sent up their wages and checked cultivation until such time as Wenchow hands learnt the secret. Now-ildays the services of Taichow men are not reguired, but Tai-chow opium keeps its old preeminence. In 1579 , owing to the appalling famine in Shansi, the Pekin Government rigorously interdicted the cultivation of opium, on the ground that it interfered with the growth of foodstuffs. Farmers were afraid to ruñ the risk of confiscation of their innds, "the penalty of disobedience, and for the next few years the production of native opium was very slight. Gradually the officinls whose proclamations had caused the panic were transferred to other posts, and the farmers, seeing that no new prohibitions were issued, took heart, and resumed wore and more eaig rily the culti.
vation of the poppy. Fach year the nmount produced increased, until in 1887 the supply became greater than the dismand, and growers lost. Prices of native opian vary necording as it is old or new, pure or mlulterated. The "now" opiuni of this semson when first put on the market sold at $x 4210 \mathrm{~s}$. per picul of 133 d l s. The dealers have hitherto beon nearly all Fukien men. They purchase tho crude opilun in gumatities however small, and boil it down there and then. The opium thus prepared is mado up into balls of tho weight of Fathat ( 4 Ibs. each), or is stored in casks holding about 66 lbs. cach. It fincls its sale chiefly in Fukien province, but a certain quantity is carried over to Formosa. Large quantities pay native duty, or likin, or both, but suanll guantities are easily smuggled. The likin nuthorities of Chekiang, observing that a great dual passed the frontier on which no duty was paid established special opium likin offices, but they are not very effectivo as a hindrance to smug. gling. The diticulties in the way of opuun growing are enumerated thos:-(1) The fields require twice the manure needed for dry griins or cotton ; (2) wet and stormy weather when the heads are forming causes the capsules to droop and the roots to rot ; (3) the juice must bo col. lected the moment it is ready, yet it cannot bo gathered in blazing sunshine or during storins ; dull days, or days when a light rain is falling, are good, and best of all are moonlight nights; (4) laborers engaged to collect tho juice require to bo paid elen if the weather prevents their einployument. The method of collecting the juice in. Wenchow is for one man to slice with ai downward stroke the skin of each capsule, while several other men go round with bamboo scosps to scrape off the juice that thereupon exudes. No capsule is sliced twico on the same day, and the largest capsule will only bear six slicings. Morcover, the juice of the first two slicings is far better than that of tho later ones. in fact, the wealthier farmers put aside the juice so collected, and, after drying it several days in the sun, store it away in the shells of goose eggs in some dark place for thres years. It is said to be then superior to any Indian drug. Native opium, in any case, should never be used in its first year; at the very least a summer should be allowed to pass. The best land for poppy-growing is the slightly brackish, but even that is only good for two years. A mow (sizy 800 squaro yards) will yield upwards of 4 lbs. avoirdupois of juice if well manured and if the plants are carefully thinned out. A medium crop is 2 lbs. to 3 lbs., whero the eapsules have only taken four slicings. But it will sometimes happen that in spite of all care and on the best land the cap. sules yield no opium.-Times.

Ir is not how much a man selis nor the per cent of profit which he makes, which determines his gains, but the relation which the expenses bear to the re. ceipts.

## Automatic Extractor.

Under this name, W. D. Horne describes a simple and ingenious npparatus which mechanically delivers a gentle stream of water upon precipitated matter on a filter, and so ensures thorough washing without special attention. The washing is done regularly too, and there is no loss of time. Tho water supply is contained in a widemouthed bottle of 250 C.c. capacity, closed by a cork through which piss two glass tubes, extending just within the botthe. One tube tapers to a moderately tine point, projecting about 3 or \& Cm. ontwardly, whilst the other is twice bent at right angles, and is sulticiently long to reach to the bottom of the bottle outside. When the bottle is inverted air enters by the long tube and bubbles up through thr water, which then tlows or drops from the shorter tube. The flow is best controlled by regulating the supply of nir through the long tube. To convert the stremm of water into min intermittent onc, sspended below the bottle is $n$ tube, somewhat like an Adams' fat extractor, containing a enpillary siphe: tube, the langer limb of which passe through a stopper at the bottom. It may readily be made by cutting the lotton off $a$ test tube ( 15 MIm . in diancter and 15 Cm. long) and closing one end with a rubber stopper. The siphon tube should be made of glass tubing 3 Mm . in dianeter, and have its limbs 15 Cm . and 3 Cm . long respectively. From the short limb hang a piece of rubber tub). ing, pass the longer one through a holo in the rubber stopper, so that the siphon is quite inside the test tube, then suspend the whole arrangement beneath the exit tube of the water bottles by means of $n$ short piece of wire attached to the bend of the siphon tube. When the apparatus is in use, water will drop into the suspended tube until its surface rises above the bend oi the siphon, and the liquid will then be diseharged into the filter placed beneath. The lower end of the rubber tube should be cut diagonally to ensure complete emptying of the siphon at each delivery, and by also varying the length of this tube and regulating the dropping of water from the reservoir it is easy to so arrange that tho right quantity is delivered into the filter each time, and that this shall pass completely through the filter before a further supply is delivered. Though a few supplementary washings by hand may be advisable, to get all the precipitate into the point of the filter, the mechnnical washing is said to give results identical with the more tedious method:-Journ. Am. Chem. Soc.

## Synthetic Remedies.

Mr. E. II. Gane, in a paper resd before the Chemists' Assistants Association gives the following facts concerning synthetic remedies :

The subject was treated on the physiological action and chemical constitution basis. The author showed how the action of the elemente is moditied by combiun-
tion with other elaments, nud how even valency affects this factor. After genemi attention to inorganic compounds, hr turned to those of an organic mature, pointing out that the fatty serius provides us with nuesthetios and hypmotics. He spoke generally of some of these sub. stances, and how they we related to each other, what their action is, ete. Derivatives of the nromatic series were next referred to, theso being in most cases antipyretic or sutiseptics. With them the law applies that increase in nalecular woights moans inereased netivity, and the position of substituents in the moleculo has also a determining influence upon the netion. As it is well known, the phenols are powerfally antiseptic, but they are also toxic. Lrunton and Cash therefore searched for a good phenol antiseptic without the toxic properties. This they discovered amongst the mando delivatives. Thus amido-phenol is a good antiseptic and is nontoxic-

By replaciug a hydrogen atom in ordimary nniline by the acetic radical wo get acetanilide, known as antifebrin, and its methyl derivative is well known as exalgine. By exchanging the methyl group for ethoxyl we get $n$ very vahuable anti pyratic-phenacetin. Its properties depend on the ethoxyl group. After referring to antipyrin, Mr: Gane pointed out the advantage which would acerue by the combination of its best properties with those of phenacetin, and that he claimed to be exlibited in phenocoll, which is phenace tia with a hydrogen atom replaced by NIf $_{2}$. Phenocoll is often in the market in an impure state, and should always be tested, Reuter's test for unchanged phenetidin is the most useful. It consists in gently fusing the sample with chioral hydrate. A rose-violet color is produced if phenetidin is present. In this fashion the author procerded to speak of phenol, salol and betol, and then mentioned the isomerides of antipyrin, and lastly spoke of the antiseptics which are balogen derivatives, such as ioduform, iodol, aseptol, sozoido!, etc. In concluding, he pointed out how important to the pharmacist are resenrches in this direction, and said it would have been well if the Research Liaboratory had kept to work of this kind instend of attempting to determine the constitution of the: alkaloids.

## On the introduction of a New Article.

## LOUIS G. VOLKMAR.

How to advertise a patent medicine in the best manner has been a continual study with me for the last twenty-five years. During that time 1 have seen many ups and downs in this business. The nature and merits of an article are generally considered a secondary matter with patent medicine men, and neglect to give sufficient consideration to these points is the main cause of so many failures. Presuming that the article to be placed on the market has a hittle merit, you are giving a fair quantity for the moncy, and
and it has a great deal of origumity (in mane and appearance of packnen), my ider of intoducing it would be as follows:

Commence in large cities, advertise in local papers, only using illustrated medvertisements, and change illustrations frequently, but have something of a similarity in the style of ads. Short rading notices at bottom of column or in other prominent places are also good.
let the drug trade know what yon have to sell. A quarter of a dozen left on consignment in each and every drugstora entches the early birds, and a druasist who has sold three packages of an miticlo will usually keep it in steck thereafter. He will not lay in a supply of his own accord uatil he has had at arast a dozen calls for the new preparation. The first call he will usually treat "ith contempt, say he has nover heard of the article before, ctc.

If the second call follows soon afterwards, before he has forgotten that he: lad a call for it onco lnefore, he will try and till the want by getting a singlepackage from the wholesale house-pronded the customer is known to him, will wait or will heave a deposit to assure his return.

It is only after the druggst has had $n$ great many calls and has a stock on hand that he will say a good word in fiver of the article, previous to that he derides it and tries to substitute somethng of his own manufacture. This is what I call "Dead Advertising," and a great many medicine men have draned out all then cash during this period. The consignment plan obviates this and places the article at once in the rach of all prospectivecustomers, and the full bencit will be receised from the advertisements.

Comatry trade 1 would handle diflerent. 1y. After the business is in ruming: order in the large eities, then branch out into the surromading cities and towns. If re you will not have to leave the goods on consignment. Ufler to place the deal. er's name under the advertisement, and in nine cases out of ten you make a sale on thirty or sixty days' time. Or let the salesman take a signed order making the account chargerable to the nowspaper, and the amount purchased on the first bill will usually pay for the advertisement for at whole yenr.

After the preparation is firmly placed on the market so all the wholesale dealers carry a stock, then go for the large weeklies and monthies, and if you have plenty of capital you must make money.-l'rint. cr's Ink.

Tue Rarbenfabriken of Bayer \& Co. have just introduced a new remedy, which they state (contidentially) to be kresotinsaeureacetylamidophenylester. Admmistered to a Konstantinopolitanischedudelsacpicifer, it immediately cauaed anthropomorphphrenomysmacaliation with refrigeration of the periphuric centers. The last seen of the patient he was playines on: tronducmiphilipinotrasianemomento, which, as everybody knows, is more difficult to learn than a dudelsac.-E.c.

## CANADIAN DRUGGIST.

WM. J. DYAS, eoltor and publisher.

## OCIOMEIC 1ith, 1593.

Prof. J. M. Maisch, Ph. D.

On Stypt. 10th, Johni Michace Maisch died at his home in lhiladelphia, fom cancer of the throat, from which he hat Isern sullering for some months. liorn in Hamam, Germany, Janary : $30 \mathrm{OL}, 18: 31$, he remained in his mative land until 1549, when he went to the linited States and catered into the: drus business in linitimore, Nh., subse:cucntly acting as clerk in Washington, 1). C., and in Philadelphia. In ISGi he was appointed P'a. fessor of Materia Modica and Pharmacy at New York College of Pharmacy: In 1S63, after the discontinuance of the United States Army Saboratory, which he had cestablisited and managed with signal success, he opened a drus store in Philadelphia, which he disposed of in 1S71, thereafter deroting his whole time to relitorial labors ami scientific pursuits, having in that year assumed the editorial control of the American Journal of Iharmatey, which he held until the time of his decease In the denth of I'rof. Matasch the platarmaceutical world loses one of its most devoted and accomplished members, and the Americ:n Pharanaccutical Association one of its most energetic and valuable workers, whose plaze it will lse hard to fill.

## The International Pharmaceutical Congress.

The following resolutions were adopted at the recent meeting of this Congress inChicaso :-
"The Seventh International Piarmacentical Congress hereby reatiarms the opiaion expressed by precedins Jaternational Iharmaccuticai Congresses, that the Decinal sjstem of measures, based upon the Meter, should be the only system used in the Pharmacopoins, and, further, this Congress believes that Fiuid measures should be employed in the measurenrnt of liquid. This Congress also believes that the scalc of the Centi. srade thermometer should be the only one: employed in stating temperatures."
"Inesolved, that in the judgnent of this Cougress the educated pharmacist is a uatural and proper expert for measures of puilic healeh, not only in the prevention of addulterations, but in the inspec. tion of water supplies, the cnforecment of good s-watr, cte. The pharmacist is, by virtue of his profession, the common chemist of the common people"
"jiesolved, thint no person slrould be admitted as an apprentice in Pharmacy unless he shall have given cevidencr, hy satisfactorily prosing a preliminary examination, that he possesses a general education sulticient for the purpose and as andvanced as the conditions of the practice of Pharmacy in ezeh country may permit,
and his term of appreuticeship in Phat macy shonld in no case be counted so far ats it anay antedate such evidenere of suf. ficient preliminary celucation. The compulsory period of apprenticolhip should not be less than four jears, including the time devoted by the apprentice to regular attendance upm the courses of instruction in a Collage or Sehool of Pharmacy.
liccognizing the inadequacy of examin. ations as at means of determianing the qualifications of persuns seching the im portant paidilege of disperasing and com pounding unedicines, this Congress approves of the establishment of as compul. sory carriculam of pharmacentieal educ:tion, atad hollds that no person should be regrarded as a qualiliad pharmacist who hats not pursucd to completion a syste matic course of instruction in the various branches of pharmaceratical science, and Nelogates in this Congress are recjuestad to leme their aid towad securing the recognition of a principle of such fundameatal inportance to Plarmacy.
".lesolucd, that this Congress appoint a committee of three, of which the l'resident shall bx: charman, the duty of this committee to be to tabe the necessary steps for the appointment of an Jnternaitional Pharamacoucial Commission to compile, publish and distribute an laternational Pharmacopuia of Patent llemedies. The Intennational Iharmaconkeial Commission shall consist of one member from cach country represented at this Congress, and from other conntrits as the committee of three may deciule, the members of the Commission to he selectat by the Pharnacopaial Comantues of the sarious countries, or to be otherwise chosm, if necessiry. The Committur of tharee shall be a permanent cominitee, and it slatll he its duty to urge and explalite the work in every proper way $;$ and in the ruent of death or resignation of any member of this Committee of threr, the vacancy shall be filled by the other members."
"Resolverl, that this Congress neeepts with thanks the proffer by the American Pharmaceutical issociation of the sum of $\$ 1,000$ to help defany the expense of compiling. publishing and distributing an Intermational Pharmaconcia of Potent llemedies."

## A New illustrated Dictionary of Medicine, Biology, and Collateral Sciences.

Dr. Geiorge M. Gould, already wellknown as the exlitor of two smallill colical Dictionaries, has now ainout realy an anabridyed, exhaustive work of tue sume class, upon which he and a corps of able assistants have becen uninterrupterlly ensatgel ior seteral years.
The feature that will attract imucdiate attention is a large number of fine illus. trations that liave been includird, inany of Which is, for instance, the series of over fifty of the hacterin-have been drawn and engraved especially for the work.

Eury scientilic-minded physician will also be ghad to hate defined sereral thousand commonly used terms in biology, chemis. try, etc.

The chief point, however, upon which the editor relies for tha success of his book is the unique epitomization of old and new knowleolge lt contains af:u larger number of wonls thath any other one-volunie medical lexicon. It is at new look, not a revision of the older volume. The pronuaciation, etymolugy, definition, illustration, and logical stouphass of atach wordare given. There hits never been such a stathering of new worls from the livitug literature of the: day. It is ejpecially rich in tabular matter a methoul of presentatima that focuses, is at were, a whole subject so as to le underitood at at ${ }^{3}$ biance.

The lastest method of spelling certain terms, as adopted by various scientilic bodies and atuthorities, have all treen inclualed, as well as those words classoll as obsolute by some editors, but still used largely in the literature of to day, and the omission of which in any work aiming to be complete would make it unreliable as at exhaustive work of reference
The publishars anoonce that, notwithstanding the large outlay necessary to its proluction on such an clabmate plan, the price will be no higher than that of the usual merlica! text-look.

The publishars ame Messme P. Miakiston, Son \& Co., of Mhindelphia.

## Answers to. Qucries.

W. II., Kingston.-The following is given as the formula:

## 1:OCHES' RU1:1:Ocarion.

$$
\begin{aligned}
& \text { Olive ail } \\
& .241 \text { parts } \\
& \text { Oil if cloves ............................... } 10 \text { jurts } \\
& \text { Oil of amiker ... ................. } 10 \text { garts }
\end{aligned}
$$

Mix.

OII. (IF IRET:
Is the anme giten to an old Finglish recipe which is as follows:

| natioes iar... <br> of liosctuary <br> of origaman |  |
| :---: | :---: |
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"Stumart," Wisuipter, Mlan.-The following table will give you the jnformation askel for:

## weicint"equival.fats.

Th, eonvert grains inta grammes ma:kiply ly...... :............ weras
To convert grammes into graits

Tu ennrert ifracims into gramues zultiply ly..................... :3.9
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Trecraitert enlice centinacters into Aracluns maltiply hy ......... 0.26
Tu convert culice ecntimeters into
age (avoir) multiply hy .......
sers mabiply lwa .................tizs


NIRICES:
One Doz. (tiain lisiz) $\$ 4.00$ per doz.
Six Doz. - - $3.75^{\circ}$."
 within 30 days

## IO DRUGGISTS I <br> have You ever tried hind's gream in your own famlly ?

 with your next order, if order is receivel lye lith Octolner pros., as we kome you cannot fail to speak highly of it if once yon try it.

HOW IS YOUR STOCK OF


The Drugerists all tell us that the latias will hate it, Both for themselves and for their little ones.
 worh as at Toilet and Nursery Requisite, and of its womberfal healuts yuahturs.

## Specimen Opinions of those who have Sold it.

[^1]
## DAVIS \& LAWRENGE CO. Limited, Montreal,

General Agents for Canada.

# ADAMDS LIQUID ROOT BEER. 

An Extract of Roots and Herbs for making a brilliant, sparhling andimigorating Summer Drink.
It can be prepared in five minutes, and is ready for drinking in twenty-four hours.
As it is put up in 10 and 25 cent bottles, for making two and five galiens, its popularity in price and quantity is assured.

Put it on your want list and order from your next wholesale representative


Don't Worry.
"A man's business life is too short," says an oxchangle, "to waste anly portion of his time in frcting ovor any trilling matuer of lousincss. If at matn las at mint to tue annoye:l Joy (viery Jutele: mashiap thitt occurs in his estialishmont lat c:an keep lisuself in constant hot water by wory: infor. There is ncither sense mor meason in fljing into a fit of prassion leceause at carreless elerk lireatis as stome tixture, luaves a fitucot rumaing, smashes ajug, or commits some ollacr trilling bhamer. Constant fretting on the part of emphogers makes clerks nertous, and, in thas comitition of mind and boly, they are far more apt to make mistakes than thry otherroise would be liusimess worry wears :a man out very rapidly, and when the habit of fussin! is onee açuired, it is extrouse ly difficult to rid oncself of it. Thereare men who work thanselves into at perfect fit of passion over little insignilicunt matters not worthy of serious thought and consideration. There are other men who fret because they fear something unpleas. ant is going to happen their business caneer; they may have obligations to meet, a note due at tha bank, while their customers cannot be depended upon to help them out of a tight corner, hut there is no earthily use in burrowing trouble until trouble comes, and then every enterprising man should manfully mect it. There is a great difference in merchants. Some wear themselves out beiore: middle life, become irritable, morose, salappish and disagreable in the conduct of a very sumall business, while other men with vast interests and great responsibilities, who are calun and well poised, patient and neryy, live to a good old age without borrowing trouble or shattering their nerwes over trilles."

## The Scope of an International Pharmacopoia.


In view of the great difference of principles which determine the seope of cach pharmacopnia, it is possibly advisable for interested partics to agree on an few jrinciples, which should determine the procexlure in selecting the articles to be inserted into the pharmacopreia if the work should fully answer its purpose. These principles smay be expresised in a few worls, as follows :

1. Primarily is to le regarded that all such medicaments must be secerpted which the physicians of the country, tirough their colleagurs who have been deceted or nominated for this purposc, desighate as important, and which areoften prescribed by them.
2. Furthermore, as it is a well-known fact that quite a number of physicians
continus to use, with preference, such medicmmentsas were at the time of their studies prescritsed and recommended by the clinical teachers of the schools, therefore such so-called older remedies should not be dropped from the pharmscoperianas long as it has been shown by statistics that they are used in at least one-tenth of the pharmacies, although they have not beren recomminded for retention by the represiontatives of the fingsicians.
3. Newly introduced remedies, which howewer are not ollicially recommended by the flaysicians, shnuld nevertheless be insortod into the pharmacoperan as soon as they are used in at least one tenth of the $p^{\text {phatamacies for at longer period than one }}$ you:

## IEfasons.

The princinal olject of a pharmacopecia is, without donibt, to give assur:unce to the physician and the patime that all such remedies as are called for resularly under certain names within the boundaries of authority of the said pharmacoperia always poisess the same constitution and quality, should the same be recognized by the reigaing doctrine or not.
On the other hand, the first object of as phatumapoeia cannot be give to plare matcotherapy a certain direction in conforanity wilh the modical views just prevalent it the time of its appearince. As, in the mature of things, these latter ideas will lu: brought into prominence by the uprespnentives of medicine attached to the phatmacopeia commissions, there is no dinisir that the older romedits will be dropured from the pharmacopueia too soon, and consequently there will no longer be a suarantee as to their quality for the large number of practitioners whe are still using these medicaments.

Furthermore, quite a number of physicians, loaders and representatives of the reigning school, are averse to the use of certain newly iniroduced remedies, without, however, being able to prewent their introduction in relatively large cireles.
In both casses it serms desimalo, in inturest of the cause, thiat the decisions, hased on prevalent scientific theories, as to the retention or elimination of remedies should be counterbainaced by considcrations of the actual extent of use of each medicament. The groundwork ior such considerations can only be gained log statistical notes, and these only by inquirins in the pharmacios as to the use of each remmedy. Presemterd at the International Il:armacoutical Congross, Chicago.

## Dragon's Biood.

In the year 1569, Monardes publisticed his Mistoria Mrolicimal, dec., and of this the fanous Lielgian botanist Clusius published a Iation version, with notes, in 1:ïl. Thic original ctitions are not before us as we write, hat it is desinable to note the dates at whicth they wers publishod. In the French cdition of Monardes, Lur: Jistoririles Simples 1Salic amens apportside l'dmerique (1619), lib. v., cap.
xxiv., wo find it stated, as it probrbly is in the first edition to which we have roferred, that the Bishop of Carthago had recently brought liome the fruit of the tree, whence exudes the tear (larme) which is commoniy called drngon's blood. Now, this fruit, our author goes on to say, is overy way admirable, for as soon as the rind is removed, quite suddenly a little dragon appears, elaborated with such natural artifice, that it appears as if sculptured in marble by some skilled workman. It has a rather long neck, the throat open, the backbone beret with spines, the tail long, and the feet well armed with nails. "Cartlage," in Peru, is snid to be the source whence the dragon's blood is derived, and its properties are described as highily astringent, and the drug is used in those cases where a medicament of that nature is required. Clusius, in a note, proceeds to describe what we now know is Dracena Draco, of whinh a plant was raised from secd at Brussels. Me describes the fruit, but ho is carcful to add that there was no dragon in it. Gerard, in his Ilerbal (1597); p. 1339, under the hedd of Draco arbor, the Dragon Trec, unblushing copyist that he is, gives the sanie figures, and a good anescription of the Dracenta Draco. The external appearance of the fruit is well. described, and then it is further stated that there "is to. be seene, as Monardus and divers ofhers report, the förine of a dragon, having a long necke or gaping throat; the ridge or lacke armed with sharpe prickles like the porpentine; it bath also a long taile, and: fower fret, very eisie to be discerned; the figure of it we have set foorth unto you sccording to the greatnes therenf, because our words nnad meanings may be the better understood." Gerard then, as Clusius had done before him, assigned the fruit with the dracon in it to what we now know ss Draceran Draco, although, as we have seen, Clusius is careful to say that he could not find any dragon in it. The Dracauna also offers a difficulty, inasmuch as it is a native of Teneriffe and MIadeira. lut Gerard is equal to the emergency, for lic goes on to say of his Dragon Tree that "this tree groweth in and Iland which the Portingales call Madera, and in one of the Canary Islands called Insula Portus Sancti, and as it saemeth it wis first brought out of Aifrike, although some are of $\pi$ contrary opinion ind say , that it was first brought from Carthagena in Noria Orbe by the hishop of the same provituer." In any case the 16 th century botanists attributed the "dragon's biood" to the vegctable kingdom, but their far off pretie-. cessors were less metaphorical in their notions. Pliny, for instinner, in his "Natural Mistors" book xxxiii., cap. 40, says dragon's blood (which was ased as $\pi$ "vehicie" or as a pignent by artists) is $\pi$ thick matter issuing from the dragon when crusher bencath the weight of the dying elcphant. Elsewhere Pling (book xxxv., cap. 32), speaks of India sending to Rome the slime of her rivers, and "the corrupt blood of her dragons," and this

# BUTTERMLK <br> <br>  

 <br> <br> } Toilet Soap.


When sold at 2 very popular price it will not remain on your counters. Try $a$ simple lot.

 tronze"* jud the mature "Cosum Itatiernitk Sonp Company; Chinafo." in dianoond on end of juckane. Iicuare of imitatione

## COSMO BUTTERMLLK SOAP CO.,

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F. W. HUDSON \& CO., - Toronto, Soic Arents for Camaila.

[^2]ESTABLISEED 1876.
Universally acknowledged to be the Best and Strongest preparation ever offered to the public.
For rejuiring Chian, Gilassware. Fumiture,
 Tipping billiarl Cues, cte.
 regníring all kimls of lecstlicr (iounds.


MiJOR'S RUBHELR CEMENT for requiring boots and Shocs and all himels of Rabler (ionals.

1'gice. \$2.010 fiet aloz: tic. jer butter.
Whe Ievather ann linbicer Cizucuts are superior to any in the market, atnl cat le umal iy ang ouc, sa the dircetions are sivial sucxilicilly. It is jut ug in two ounct lootles, ont quart ant one gallon cans.
HAJORES BEEST MQDID CEDE for requiring Wenk, Tipping lialiard Cucs, cte, always reanly for use.

## A. MAJOR GEMENT COMPANY,

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It will pay you to sell Cottam's Bird Seed. No other gives like satisfaction. Its peculiar merits make it a favoritc. Each packet contains a 5 cent cake of Cotam's Patent Bird Bread. BART. COTTAM, London, Ont.

## A Druggist's Specialty.

## CURTIS \& SON'S

Yankee Brand PURE Spruce Gum
Is meeting with the success its high yualities merit.
EAF A TMIAL OLIDER SOLICITED. CURTIS \& SON, PORTLAND, ME.,
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Will arima anything. Dry or Tiduin, Hard or Soft. meht as llaths of all bume, salts, rouis. stems, iwries, argenls, spices, sugar. cotice, |nines, fertilizers, dlay. pint, etc. Ink, Blacking, Paints-in -Oils, Etc.
H.ıг a wurli-wile repmation of brents the

## BEST MILL II THE WORLD.

Cataluguex sellt an aphlication.
Albites the mannfacturern,
J. S. \& G. F. SIMPSON, 26-36 Rodney Street, BROOKLYN, N. Y.
zer Usel loy all harge drug hunses.


 chrovahou: Canala.

THE OLDEST.
THE BEST.

 Seatreal ; The Surthrop í lyaian Co., Torouta.
fact serves him ats an illustation of a temdency wich is apparent now ats then. "Diverything, in fuct, wis supurior at it time when the resources of art were so much fewer than they now are. Yes, so it is; and the reason is . . . that it is the anaterial, and not the ellorts of genius, thist is now the ohject of rescearch." (Bohn's edition, vol. vi., p. el6.) the question to be solved is, whit w:as the fruit mentioned by Monarales, and which contained so strikins at verisimilitude to : dagon? A conventional dranon it must have been, like the ellisy at Pemphe liar, pronaps, for no one quite kaows what a daryon was' What is known nowadays ats dragon's blood is a resinoirs exadation used for vannish, and derived in some easins frem a palan, Culames elraco, in others from it draceuni. Now, the pratha bas a setambling stem thickly beset with spines, and its fruits ane colered with hatrd scalles turned down, :and dargon-like ats dragons are supposed to go, but the ealia mus comes from Sumatratamd liornen, and not from Carthasional. In spite of its name, it is rather diflicult to see any resemblance to adrayon in at drace:oms. Perhays the batyourt like heates may have suasisested the inh:a Girralemers Chrunich.

## The Position of the Pharmacist.*

## 1He. BEIMK:IL.t.

Too frepuently pharmatists imagine that thay are seomed and unjustly ate. cused by the medical profession, but there is rually wothing in this fancio, in point of fact, fur such conduct would be hoth pro. foundly absurd atad absolutely undeserved. Fior my part, I respect and honour: the profession of pharmaty as much ats that of medicine so long is bothare practised with : preper sense of duty. If this condition be not fulfilled one maty well purmit ouc's self, without hesitation, to despise and oppose the unworthy pharmacist is much as the prevaricating doctor. le to the reason-1 profess these sentiments of estecm towards the pharmacist it is very simple, though it may seem somewhat :stonishing, it first sight, to certain of my readers. It is beenuse I atin attached to my profession and recognize in the medical practitioner at man whose energius are liargely devoted to the serviee of his fellow creatures, :und render him aecordingly worthy of respect.

Now the pharmacist is cutitled to the stme esterm, for he participates in the pablic labours of the medical man, and is his valued :and indisgensable fellow-worker, The doctor who is the best informed, most capable of solving at diagnostic difficulty, :and most expure is : therupeutist, camot carry on his work moperly without the jointaction of the pharmacist. All the goo:l that the former may be: able to do, if lie is secomded by a conscientious pharamacist, will ber reatered impossible if the individual entrustell with the dispensing of liis prescriptions should not he.

[^3]serupulously conscientious in the performance of his work. $1 t$ is with the assistance of the phammeist that the doctor nentralises tho toxic symptons in cases of poisoning, saves the life of a patientattacelied with hemorihatere, and suatches from death those who are on the point of expiring Dut it must not be forgotem thast, if the phatmacist has not a very clear ider of his duty, the poison, hemorHanes, and death maty be able to accomplish their work and he will be responsible for it.

The phammeist "ho dows moperly understand his work has the righat to be proud of his profession. It might also be said that his position is more meritorious thatn that of the needical matn, for it is more unpretending and lens is known about his work. The proctitioner who contends with disescs: at the bedside of the patient, and follows its progress step hy step, is yet conscious of at arim satisfaction in the struaglo, and eajoys his trinuph when successful. The pharmitcist, his fellow-worker, who plates in his hatads the we:tyons of his choice, is at stranger to these pleasures, however. It is not on the part of the public but in his own conscience that lise finds the cheerins testimony that lat has done his duty.

It is seen then that the pharmacist is not, in my opinion, simply a dealer in drugs, nor only at more or less expert chemist. The impression that I hatse formed of his position in society is thiat it is at much loftier one. liat then the question arises, do pharmacists comprehead this position themselves of We leave: out of account the: black shaterp that exist in all professions; but do the pharmacists of reputed honesty of purpose understand the great responsibility which devolves upon them? Does each one serupulously faltil his obligations, and these in their entirety? We must look to facts for at reply.

The pharmacist is, as has alrealy been saitl, the fellow worker of the doctor in the noble soork of the alleviation of discast: It is upon this ide: that the whole professional life of the pharmacist should be based. It is this ides which should impel hime to contribute, by the quality of lis medicimal preparations, towards securins the effects desired by thes enedical man, without ever wishing to substitute limaself for the later or disparaging his work. It is this also which calls upon him to assure himself, by analysis, of the strength of his preparitions, and endeavor to manler medicines as readily assimilable as possible, whilst cexcrising care to scrupulously perform what the doctor directs and :acording to his wishes.
I. will not stop to consider here: the it. legal practice of medieine by pharmacista, which is always atn absurdity and often not f.er short of criminal Nor is it necessary to spuatik further of the mecessity of an:alysis and the desirability of alviays having the finest guality of drugs, for thuse are traths which no onecin contest. I would prefer rather to come down to tho inuer lif: of plarmacy and slaoy what
minutio and doubts must be comsiderved by the pliarmacist in the performance of hiss dutio.j.

There is a widuly extended practices in the world of pharmacy. which consists in making all linds of preparationss from fluid extracts. IL is unnecessary to consider whether these products art: worthy of commendation or not, for it is known perfectly well that some of them are good whilst others are simply detestable. ljut, from an ethical standpoint, the matter is as clear ats pos-sible-He: phamanaist should make use of these extrats when the doctor preseribes thin, and then only. In acting otherwisc, he exposes hoth patient and doctor to injury, and depats entirdy from his proper position. When the doctor preseribes ats follows :-"Take one spamme of digitalis leates and make two hundred gramanes of infusion," the pharmacist should not take a pretended equivalont portion of fluid extract and simply dilute it with distilled water. Putting :all gues. tions of - science on one side, he ought simply to do exactly what is ordered, and should nefier dexiate: from the terms of the prescription without referring to thes writer of it. To act otherwise is to renounce the just consideration which ought to attach to the name of pharmacist.
To sum tip, the pharmacist is not simply. at dealer in drugs or a chenist experiment. ing uponthe human organism; lue is the associate of the medical practitioner in the great duty of looking after the publac health. Both law and common-sense have clearly defined his sphere of action, the bounds of which he should never overstep. Let hitu scrupulousiy observe the lat, dispense mediciat prescriptions in a. careful manamer, show averywhere and alwitys it disinterested, unpretending, and ceven unrecognized sense of duty, and he will be able to convince himsulf, at least, that hue leads a life of utility in the service of his fellow creatures.

## A Poison Train.

The Victorian Austazlia liy. Department artabout making and experiment ia rume ing a "poison" train. It is to consist of is waygon 3is feet in length, whelh will hold at large boiler, and twelve ordinary watrgons, each carryiag 1,200 gallons of water: The water is to be inpregnasted wit!: arsenic, amd the solution is to be poured on the permancat way as the train runs, the hope being that thereby all vergetation on the: road will be destrojed. In the past the elearing nway of weeds an: grass has been done by permanent way-men, but it is thought that the poison train will ls: cheaper. The estimated cost of the experimental train is said to le $\$ 9,000$.

Suidhund Ointinent. - Under this: mame Carlos (liep. de Pharm.) employs : misture of one ginis concentrated sulphuric aceid :that three of hos's lard as it counter-irritant in place of simapisms, thapsia plaster, and crotonoil mixtures. The ointupeat catl be wasiod of with, water.

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IKw's Sturacon (is) tiniment.
(iras is Alonlame linimest
Ire. Wilsou's Intihilious I'ilst. IOr. Wilsotis I'craian Salue.
br. Wibsonis ith Ointment.
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liolucrtes five linater. Or. Ilonarl's Quinine Winc.

Ifr. Ifonaril's Ifeef. Il ine and Iton.
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I)r. Iluward's Cun livar Oit limulsion.

## 2 Druggists.

## TEXAS BALSAM

Is the only Ihapil aud Certain Healer for Scratches, Corlis, Galls, Sore Shoulilers and all Womads on

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 as a Stapie Jicmedy:
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Onlers from the Trave solicitevl and recrive jrompte attention.

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## A System of Advertising.

samumi J. Platt, Oakland, Cat.
aly system for advertising a retail drug business is as follows :

1. Keep the best drugs and goods my skill, judgment and moncy can buy.
2. Keep everything clean and attractive. Have line fixtures.
3. lesact of emplogees and mysulf prac. tice, the uthost courtesy toward all com. ing in my store.
4. If in a lurge city study especially the territory tributary to my stow, sipecially adinting my business to wants of probable customers.
5. 36 diays in the year take special pains to pleaso the latdiess.
6. 1l:ve something to interest customers waiting for prescriptions, etc.

| At | will wash |
| :--- | :--- |
| Hays |  |
| Pharmacy | and wear |
| Hus weck |  |

7. At least twice a year hatre days in the nature of opening days. Attention called to the same by newspaper and circular advertising.
S. At least four times : year hive at gencral distribution of circular mitter, thoroughly cowering my tervitory, matter. neatly put up in envelopes and as far as possible addressed to the heads of families.
8. In spite of the evils of cutting, make a judicious selection or use of newsparper; circulat and sigu advertising adorded by patent medicine and other people who advertise to the consumer.
9. Study uny city :and adjacent terri. tory and myself manufactura one or more preparations specially adiapted to the wants of the people, advertising the same: by samples, circulars, signs and news. preper advertising. I would try to have an article or articles better than people could get anywhere else. It or they would make my mame kiown.
10. Ta large cities bill boards sencmally cost more thinn thry are worth. In smailer places makre a judicious use of prominent and permanerit locations.
11. Make friends of newspaper.men, giving tips for news items whanever not interfering with the confidential relations of druggist to customer.
12. Pay special attention to window displays. Try sach weck to have some. thing worthy of newspaper notice, payins for itl notices, reciprocity of the newspaper anen did not secure. Firom time to time allow people to exhibit articles in lfindow; thus securing many notices. My
point. Elliect of window display emphasized by newspaper notice.
13. Uso newspapers constantly.

Keep display add running all the time,

## SEGNOPS

looks queer, but we have only spelled sponges back. wards.s interest you.
We have done more than this at our store to interest you. We have converted our windows into a curiosity shop. The greatest curiosity is how some of the Sponges are sold so low.

## H. H. HAY \& SON, uIDDLiestreer.

varying si\%e jast as newspapers vary in size-progressive, modera prpers.

Use local notices judiciously and phentcously, striving to have them take the form of news items. All advertising to form one complete whole. A certain per cent. of receipts to be set aside for advertising.

The main and constant purpose is to set people to come to my store.

| all sizes | SPOMCES SPONCES SPONGES | all prices |
| :---: | :---: | :---: |
|  | SPONGE |  |
|  |  |  |
|  | SPOHGE |  |
| good | SPONGES | in all |
| value | SPONGES | grades |
|  | SPOMCES |  |
|  | 's Pharm |  |

Tn :all :ulvertising inymess upon the minds of the neople

1. My skill.
\%. Purity and extra quality of goods.
2. lieasonableness of my price.
3. Proper treatment of customers.
4. People: can do better nt my store than anywhere else.-Americen Driugis and I'harmaccutical Mecord.
Tur: color of oxygen in the liquefied form is is bright sky bluc, according to Olseewski, who has succeeded in obtaining : layer of thirty millimeters in thickness.

Asmiomenoroms is it glucoside found in several species of andromeda, rhododendron and azalea. It paralyses the respiratody organs nud acts as a vijolent enetic.

## A Pill Excipient for General Use.

N. A. UPHam.
(Proceelinge Conacil Phar. Asso.)
In the various jourmals there has appeared from:time to time a number of ne ticies on pill excipients, especially those ndapted for use in making yill massè́s containing ingredients which aro linble to deterionation through the application of the more common excipients, or which, owius to other peculiarities, make: it in. possible to obtain satisfactory results from theit use. With these, we presume, the active pharmacist is fanniliar.

Irying aside these few exceptions, which occur but rarely in our everyday. practice of compounding preseriptions, there should be on every well regulated preseription counter it good pill excipient fur genemal use, one that is edpually whicient in massing quinine and the lighter powders, or the heavy substances like calomel, subnitrate of bismuth, or reduced iron, ctc.
One writer says: "A pill mass should have the consistency of a thick, well-mixal dought, which shall be easily remowed from the side of the mortar atnd spatula, :and must not stick to the fingers while lneity kneaded." An excipient mide from the accompanying formular will produce results in the mijority of instances which combines the qualities of the above observatione and dows atway with the halfdozen or more sticky and untidy excipient bottles so often found behind the prescrip. tion counter.
fild b:xcibitive.

Mix the powders in a suitable dish and thoroughly incorporate: the olycerin and: glucose uitil a perfectly smooth mixtüre is oltained. Then apply sulficient heat to. thicken.

When cold transfer to at screw.cap ointment jar or other couvenient receptacle.

Dethisinsition of Ealsifieio Santoni-c.a-The following is a simple and certain method : 1 gun. of suspected drug is finely pulverized and is than aritated for some time with 10 c . c. of absolute alcohol; the whole is then heated to boiling, filtered, a piece of caustic potisss is added to the filtrate, and the whole is aggin heated. If the drug be pure, the liquid will acguire a pronounced red color; if falsified, the color will ixe yellow; and if santonica be present, the liquid will be colored but faintly if at all.-Astolti in Bollel. Chim.Form.

Pramemas or Mrmiocien must be kept in a cool place Do not expect favorable resuits from its use when it has become deteriorated by age or exposure to air or continual warmeth.

Gablic onf is finding favor as anf ingredicnt for sanuses, pickles, etc

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## PHARMACY ABRORD.

Sinnash Phamacists on Stham:Compelled thereto by the financial distress of the Ireasury, the Spanish Minister of Financo recently issued an order that every time a sale was made in a Spanish pharmacy, no matter what the importance of the transaction, a revenue stamp of 10 centimos ( 1 d. ) must be attamhed to the artiele delivered. It was pointed out to his lixcellency chat in many ciases, especially in poor quarters, the rev. enue tiax would equal or exceed the avernge amount of the transaction, but the Minister remained obdarate, and amounced that the tax would come into foree on July l. Many pharmacists thereupon resolved to close their shops altogether until the tax should be withinasw, whereupon the Minister save notice that in case of such action he woutd order the militiry pharmacies to open their doors to the public at largo.

## tit $\dagger$

Phambace is Switamendo--The approachin,'s publication of at new colition of the Siwas P?hamacopouia has infused new hope into that section of Swiss pharmacists whose atim is the mailication of all laws regulating plammacy in the li-public and their coual application to all cantons. At present every one of the twenty odd little republics that make up the Swiss Confederation regulates the exercise of platanacy and medicine willin its tervitory accorling to its was will, and this system, or want of system, atceording to the alvocates of unification, has hopelessly broken down. The first attempt at unitication will be the introduction into the Swiss Legislature of a lill to resulate the sale of poisons, which is to be foliow ed by a liatent-medicine Dill.

## $\dot{\mathrm{t}}+\dot{\mathrm{C}}$

Fomeign Puamachists in Bhagium.A Royal Decree regulatirg the permission to foreign phamacists to practice in helgium has recently been issued. It provides that in future all persons in possession of a foreign diplomia who wish to exercise the pharmaceutical craft in Belgium will require a special license, application for which must be made to a "central jury." The jury will, in the first place, demand proof that the applicant's yualifications are the result of studies and examinations at least cqually severe with those required of the Jelgian pharmacien, and will then only srant the desired permission if the applicant can show that he nossesses "extraordinary scimentic attainments," or knowledge of a nature likely to be specially useful to Jelgium. These conditions are practically cquivalent to exclusion of the foreign pharmiacist, whose existence, especially at seaside and other holiday resorts, has long been on thorn in the side of his belgian eonfretes-Chemist and Drugyist.

## $t!$

The Dasism Phamacomba. - The recently published edition of this work is in
tho Danish language and not in Latin. Several flaid extract of drugs in common use aro introduced. Fluid extrnct of cinchom is the first of these, nad is prepated by exhausting 1,000 parts of powdered cinchona with a menstruum composed of 120 parts of dilute hydrochloric acid, 200 parts of glycerine, and 4,000 parts of water. the powder is first macerated for is hours, and afterwards, with witler, and the liguid united. This prepuration corresponds exactly to that of the Dutch Pharmacopuia (thitd edition), rxcept that no fixed amount of alkaloid is reguired. Fluid extract of digitalis follows. 1,000 parts of the leaves are macerated with a mixture of $\overline{50}$ parts of olyeerine and 450 parts of dilute alcohol. It is then percolated with 6,000 parts of dilute alcohol. The alcohol is distilled oft on a steam bath until the liguid mensures 1,000 parts. It is diluted with 1,000 parts of water, and evaporated to 1,500 parts filtered and eraporared to 500 parts, to which 500 parts of alcohol are added. The dose is . 1 gr:-. $\overline{\text { ogrsen}}$. The fluid extract of rhammus frangula is prepared with at menstrum of 10 parts of glycerin and 90 of water. Nluid extract of gentian appuars oflicially for the first time. Fluid extanct of ipecaculama too, is new, and is prepared by a very carcful and tedious process. S00 parts of the powdered root are macerated with 400 parts of alcohol for two hours. The alcohol is then displaced by fresh spirit. The percolate is evaporated to 500 parts, dilated with 1,000 parts of water, again evaporated to 750 parts, cooled and tiltered. The residue from the filtrate is washed with water until the washings have no bitter taste. The united liquids are exapgrated to 500 parts, and made up to 1,000 with alcohol. This increasing tendency to include fluid extracts as ollicial preparations, not merely for the convenience of the pharmacist, is noteworthy. -D. and C. Dre:ygist.

## "A Littie Nonsense Now and Then."

In the Pharmaceuitische lost of July 23rd, we notice that at the general meeting of the Druggists' Association at Jisemach, Germany, among other attractions there was held a humorous examination of druggists' assistants being really represented by the owners. After a few introductory remarks by the examining committee, the three pupils appeared as follows:

Mr. Peter Olcum, of Dremerhaven, who makes is "refined" impression.
Mr. Chamomile Ters, of Vulgary; who is "tak:ng" in appearance.
Mr. Semma, of Alexiandria, who will no doubt "pass" the cxamination.

The following questions are the ones which are translatable into English, in others the play of words not finding expression in the English language:
Q.: What is absolute alcohol?
d.. Absulute alcohol is that alcohol which man absolutely must have.
Q.: What is dry distillation?
A.: If a man gors into a distillery and does not get a drink.
Q.: Name some derivatives of iodine?
A.: Iodinc, Thou odine, He odine, Shoodine.
Q.: Ilow is cane sugar prepared?
A.: Thke sugar cnie and simply turn it around.
Q.: How is oil of turpentine tested for purity?

A: Set fire to the carboy containing it. If it explodes, the oil is good; if not, it can be safely poured nway and a better supply bought.
Q.: How would you purify benaine?
A.: Boil it over an open fire until it is reduced to a thick extract, then dissolve this in water. The resulting product is entirely harmless.
Q.: What is Wermuth ?
A.: Commissioner for Germany at tho World's Fair.
Q.: How is sulphur obtained?
A.: It is prepared from matches.
Q.: What is its Iatin name?

A: Utan svefel ooch fosfor.
Q.: What does it mean?
A.: Besides sulphur, also phosphorus.
Q.: What does dissolving mean?
A.: A process often applied to socialistic meetings.
Q.: What is an atom?
A.: Nothing.
Q.: How is ioloform made?
A.: Take iodine, melt it and pour it in. to $: 1$ form.

To the above might be added the following:
Q.: Which candle burns longer, a wax or a paraflin candle?
A.: They bolh burn shorter.
Q.: Dors the druggist retain the prescription?
A.: No, the doctor retnins it, for we allprescribe over the counter, and the doctor supplies his own medicines.
Q.: What articles are recommended to be put in the show windows of the drug store?
A.: Those articles which we merely show and do not care to sell.
Q.: What would you do if you could not read ia doctor's prescription?
A.: Try to ascertain what is the matter with the patient, and then sell him anonsecret remedy and charge him a dollar.
Q.: What is camphor?
A.: An article thic customer came for. All the studente passed the examination cuin lanuld.-Dhelletin of Pharmacy.

Adelterated Olave Oil.-According to the Droguisten Zeitung, the following new method of adulterating this oil is used in some quarters: An odorless parafinin oil of sp . gr. 0.915 is mixed with crushed olives; the whole is macerated for twentyfour hours at $50^{\circ} \mathrm{C}$. and is then expressed and filtered. The product is made to contain 25.per cent of the foreign oil.

Pilocarpine is recommended for deafness caused by chronic catarrh.


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TORONTO, ONT.

## FORMULARY.

new quinine plli, mass.
Apothecary Kuristciner; of St. Galgan, Gerinmy, recommends the following process for quinine pill-mass:

$$
\begin{aligned}
& \text { Quinine sulphate. . . . . . . . . . . . . } 30 \text { g } \quad \text { m. } \\
& \text { Citric acid in powder .... .... } 2 \text { gill. } \\
& \text { Gumanacia, powder ed ......... }{ }^{2} \text { gin. } \\
& \text { Sugur of milk ........... .... : : gitl. } \\
& \text { Simple syrup . . . . . . . . . .....!. s. }
\end{aligned}
$$

Rub up the quinine nud eitric neid, and add the gum and sugar of milk. After thoroughly incorporating add suflicient syrup to make a mass. Divide into 200 pills. Roll the pills into fincly powdered stareh and immediately thereafter in finely powdered tale. The pills are shatpely, very soluble, and kerp so indrdinitely.
con-livi:l olf witll saccisamis.

> Sacelarin .................... 40 çm
> Acetic cther..... ........... 2 gm.
> Codliver oil ................. $100 \mathrm{gm}$.
> Peppermint or cimamon oil. y. s.

Dissolve the saccharin in the echer, and add the cod-liver oil, little by little, with frequent agitntions. Finailly add the pep. permint or cinnamon $0: 1$. - I'icurr Aliasischer Runulselian.

## Camplole m.th.t.

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| :---: | :---: |
|  |  |
| \%imrio. |  |
| Camphor |  |
| O1. nucis |  |
| -(i)ycuimi |  |
|  | commanm: |

Unna prescribes:-
Spt. iatabliai Sol. Hydrogen Peruxide
Wool fat (imhigidrous)
Acctic acid
. iti 3 j .
............. 5 j
Mix and perfume-Mtad. Worde.
berfenvescent bactate of mon.
P. Cusaris, in the bollotino Chimicoframecentico, sives the following directions for preparing this efiervescent chalybeate, which, it scems, is very popular with Italian physicians:


Mix, and heat in the water-bath to $100^{\circ}$ C. The mixture soon swells and becomes granular. The preparation is exceedingly hiydroscopic, and must be put at once in bottles and tightly stoppered. The tiste is very pleasant and the preparation is we:ll borne by even the weakest stomachs. Nat. Dragyist.
mxtract of matir wirn old.
Take of
Extract of malt
Conl-liver oil :ini....e.cual volume

> Oil of lemon...... ..... y. s. to flavor.

Warm the extract of mali to about $140^{\circ} \mathrm{F}$.; then gradually add the oil, with constant stirring, until a perfectly homogeneous fluid is obtained. Then cool and flavor. If properly mixed the oil will not separate on standing.

> cucumber cafam.

The following is said to produce a satisfactory cream:


Melt the wax, oil and spermaceti together with a gentle heat, and when nearly cool add the essenco and juice of cucumber and stir briskly until the whole assumes a creamy consistancy.
 solurion.

$$
\begin{aligned}
& \text { Acilluschious .............. I gm. } \\
& \text { fiytur phtassar .. . ...... } 5 \text { cem. } \\
& \text { Witer .................... } 30 \text {.mm. } \\
& \text { Distilled meliss: water ...... } \pi-10 \mathrm{gam} \\
& \text { Aleolan, sulficient. }
\end{aligned}
$$

Dissolve the arsenious acid in the liquor potassea by challition. Dilute the solution with the water mixed with 10 gm . of the alcohol and the melissa water, agitating strongly during the addition of the diluent. Finally, add suflicient alcohol to make 100 gim.-Nat. Drugyist.

## Bougies.


(Real at the A. R. A. meeting, Chicago.)
From in therapeutic standpoint, bougies are very desirable and preferable to injections lecause:

Thry bring all the medicaments to the affected parts while the patient is about his rocation, not taking him from the latture except for a short time during the administration.

None of the medicament is lost, all being absorbed if the bougic is property prepared.

Substances insoluble in liquids can be incorporated in a bougie, being solid.

It is safer, as no stricture need result because the necessary amount of drugen be incorporate:d, and nearly all of it is abs. sorbed.

## mhanmacisuticat vatub:

To be of importance to the druggist, however, bougies should le of such character as to admit of being formed in the laboratory with such implements as are alrcady to be found there or easily attain. able at a small expense and on short notice. Bougies requiring expensive outlays for apparatus and tedious processes are not only uscless, so far as the average plarmacist is concerned; but even pernicious to the latter since they add to the monopolizing "propr. manuf." who always clain "superior facilities" for manufacturing.
To sum up, therefore, hougies should be:
(a) Readily absorbable and fusible at the temperature of the body, yet not so quickly that thie material will run out before it has had its required action.
(b) Flexible and malleable.
(c) Miscible with such drugs as are usually prescribed for such cases.
(d) Constructed on simple principles with few appliances and rapidly on short notice.
The bases so far suggested do not secin
to mect with the nbove requirements, lacking in one or more essentinl points, gelatin, for instance; whilo llexiblo and malleable, can not be mado quickly and ensily, hor are gelatin bougies fusible, but rather simply swell. Cacao butter has been suggested, but it is neither tlexible nor malleable, and nets rather on the hands of the druggist and patient before reaching the parts intended. Wax is even less desirablo than either the former in all respects, particularly from the therapeutic standpoint.

## formula.

I'o overcome these objections and to conform to all the requirements as stated nbove, Thave, after many various fruitless eflorts, succeeded in making an almost frultless bougic by emulsifying melted cacao butter with acacia, water and glycerine.
lior the practical base I found the following formula par excellence:

| Theohroun oit | 480 grius |
| :---: | :---: |
| lowd. acacia. | 240 grains |
| Water | 240 min. |
| Glycer | 120 mi |
| Powd, boric a | nisiont. |

Melt with cacao butter and tritumte in a warm capsule with acacia; add the water, proviously mixed with the glycerine; place the eapsule in cold water or on ice until the mass has solidified, and set the vessel aside. When required for use, take of the above four drams. incorporate with medicaments and from ten to twenty-five per cent. cac:a butter, triturate until intimately mixed, and roll out into ten bougies.
'lo further simplify the handling of the bougies a 00 empty capsule may be placed at one end of the bougie so that in holding it would not melt. Thirty-five per cent. glycerine may be incorporated with this base in making the suppositories; this does not interfere with the nddition of such powders as may be needed. As a substitute for cold cream, or as a salve forlips, hands or face it is not to le improved upon. However, for the different uses, different formulas are to be preferred. $\Lambda$ s a lip and face preparation, more base and glycerine and less or no acacia is wanted, while as a base for salves but little of the glyecrine and a trace af white wax is advisible.

When dry powders are prescribed in bougies these should be incorporated with an equal amount of slycerin.

I may further state that many physicians have found the above mixture a far more desirable bise for suppositories than the pure cacao butter. Directing nttention to this may prevent some ingenious proprictary manufacturer from bringing forth is substitute for eacao butter under some clever name as "bugioleioe;" thereby taking profit from us and our seience.

To Tmprove Lemonade-An ounce and a half of orange flower water to the gallon of syrup is found to be a great improvement to lemonade, giving more bouquet and a more delicate finvor.

## MINARD＇S ＂xilic of palis？ LINIMENT

SOLD TO I＇IF：＇IRADI：33＇

 l．ghan，kinoa dico．

HAMILTON－Archulale Wirson id Co．J．Wher icco LONDON－London Druk Co．C．JeC $\mathrm{Callum} \mathrm{心Co}$. Jas．A．liemeds is Co．


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 PQintinu！

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This preparation has been proved to be a POSITIVE CURE for

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## HENRY R．GRAY，

## 오AMIISKI天D 2859. <br> Pharmaceutical Chemist

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MONTREAL．


ONLYFOR
Dyspropsiánanl dis． coses of thu liver； a S＇pecial Stomach Medicine nilvertis－ ert only for the dis－ orders which it will unaloubtedly care．
KEMEDYNi，is lurely Vegotable in compound，a sentle Laxative Tonic Bit－ ters－Its action on the organs that pher－ ify the blood and system is varied，pow－ ful，and yerfect in effect；a positive amd $\left.\begin{array}{l}\text { speedy CURE for } \\ \text { and its kindred }\end{array}\right]$ PDEA diseases，disorders from which over sev－ eniy－five per cent．of the people aro suffering in some form，and conmerato among their subjects the most miserablo beings in the world．

REMEUYNE A A com－ is a highly concentrated $A \mid 1$ ploto course of medicine within itself．From one to three bottles will cure ANX CASE of Dysjepsia or

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THE DOSK is so small that each bottlo contains from one hundred to two hun． dred closes，varying according to the age． condition，and strength of those requir－ ing medicine．
Take no substitute；every drugerist keeps REMI：LYNE，or we will send it direct by express at
Three botiles $\$ 1.00$ per＇xottle．
six voities， 5.60
BEMEOYE MFE．CO．，samamaor


## Show-Bottle Colors.

Several of our readers having asked for formulat for show botele colors, we give the following which are taken from the l'harmatcotical liecord:-

## (inlisi.

1. 



Dissolvo the sulphate of copper and salt in the water; add the ateid listly and filter.


Dissolve both salts in separate portions of water and mix. It is incommended that the water used in dissolving the salts be treated with about ${ }^{j}$ gratias of alum and he previously boiled.
3.
 ed.

## 4.

Foric oxide 1 annce.
Copher sulphate . . . . . . . . simaters.
Hydtodhenic:acial.......... 1 thaid ounces.
Wiater, sullicient to make .. 1 gal on.
Dissolve the ferric oxide and copper sulphate in the water and let stand $\bar{y}$-f hours before filtering.

$$
\overline{5} .
$$

Nickel.
Nickel. . 120 (anains.
Potassimm bichronate.........
Water, sulficitut to make. Ig ghllon.
Dissolve the niekel in the nitric acid and add the solution so formed to the water in which the potassium bichromate has been previously disso!sed.

## anemismine.

Salicylic acial ... ........... $\overline{5}$ grains.
Ambienia water ........ ... ч. s.
Sohntion iron chlorile $\ldots .$. . y. s.
Dissolve the sillicylie acid in suflicient ammonia water to effect solution, and make the bulk up to 1 gallon with pure water. To this is added sullicient solution chloride of iron to produce the desired tint of color, and lastly, a few drops of hydrochloric acid.

## SCablem:

Ammonia water .... ..... 2 haid ounces.
Aectic aceid .................. 4 Haid gunces.
Aledhul. . . ......... ...... 2 lluid ounces.
Thincture chlorite of iron ....? flaid ounce.
Distilled water, sullicient to make 1 pint.
Add the acetic actid to the ammonia water, shacke thoroughly, and add the atcohol. Mix the tincture chloride of iron with the water, and to the solution so formed add the first solation of ammonia water, alcohol and acetic acid. GABNET:
Yotinssinm bichromate . ... 10 drams. (1) thail drams Distilled water $\qquad$ 191 iluid ounces

Dissolvo tho bichromates potassium in the water contained in a capacious mortar, and to this add slowly and with constant stiaring the whole of the sulphuric acid ; t!en med
Alconal
................. \& illid omse
Distilled water, sullicient to make 1 gallon.
Allow to stand for 9.4 hours and bilter: This liguid has a deep "mature gleen" color by daylight and is garnet by night.

## citimsus.


Percolate alkanet root with the turpen. time.
rumble mue.
Cipper sulphate ........... 4 danms.
Ammonial water .............2 nluid outuces.
Distilled water................ is pints.
Dissolve and filter.

$$
11: 1: 1 .
$$

1. 

Cinchineal .... . ........... . 15 drams.

Sulphinsic:acid ........ \& hluiil ir.ums.
Witer, sutliciant to malie..2 gallons.
lufuse the chochineal with sucecssive portions of boiling water until all the col. oring matter is extracted; filter and ald sulficient cold water, to which has bren added the sulphuric acid, to briby the bulk of solutiou tip to 2 gallous.
2.

Solution chloride of iron .... 2: idrons.
Ammomia water......... .... \& dram.
Acetic aceid..................... I din.m.
Alcohol ........................ \& drams.
Water .......... . ............ 1 pint.
Add the alcohol to the water and the ammonia water to the acetic acid; mix both solutions, and add listly the solution of chloride of iron.

## IINK.

Coblalt axide. ...... ...... 1 in:um.
Nitsic atcill ....... ....... hilluid otnces.
Wiater, stllieient to make.. 1 gallon.
Dissolve.
mut:
Dissolve l ounce of copper sulpliate in a pint of water: Add ammonia water sullicient (about $\&$ fluid ounces) to produce at clear deep blue solution, which may be diluted with water to maked gal lon more or less. Let stand for l2 hours, then decant the clear solution.

## violet.

Cudhur.... .................tidgrains.
Ammonia water .................. 4 sunces.
Wiater, suflicient to make....... 1 gallon.
Macemate $2 \cdot /$ hours and filter.
yeldow.
New York dirome yellow...... $\frac{1}{}$ ounce.
Nitric acill ... ... ............ $\begin{aligned} & \text { onnee. }\end{aligned}$

Dissolve and filter.
or.scis.
1.

Dichromate potissum ........... 2 onnees.
Nitric acial ..... ................ 1 onnce.

1) istilled water .................... 1 pint.

Dissolve the bichromate of potassium in the water, add the nitric acid :und di. lute with more witer until the desired slade of color is obtained.
2.

Chromic acil. ........... .... (il griains.
bistilleal water .................. I g gillon.
Dissolve.
lulel'tis.
Pornampanato pulaxsitm....... 20 grains.
Distilled water . ... ..... .... I gathon.
Dissolve. -I'luer. liccorel.

## Meat Preserving Proparations.

Dr. W. Polumske contributes to the Pher. materetische Zuituny the following amaly stes of certain meat preservatives found in trade in beilin, and chanating from tho f'abrif of E. Dressel, of Berlin:

Odorlass Ifeal l'revertative.- $A$ dear, yellow liguid, with a slight acid reaction, of 1.125 specitic marity. One liter of it contains:

> Common sult . .............. 2\% 2 mm
> Sodimu sulphate, anhydrois. 73.5 gm .
> Y:anillit...................... 15 ся.
> Sexlimu sulphite........... . . 171 gim.
> Sulpharous acid. . . . . . . . . . . . 34.5 gem.

In other words, it is sinuply it solution of it mixture of sodium sufphite and bisulphite.

Meal f'reserciny l'onceder.- Winely puil. veriecel sodium disulphite.
l'reservatice Sall or lickle Sitld. -Sodiunu chloide, S0 parts; botax, in powder, Sparts; potassium nitrate, 12 parts.

Tho same authority gives the following amalyses of olher meat preservatives and colors :
Schramme's Latest Mect-preserviay P'ow der-Merely fincly powdered sodium disulphide.

Sclivamm's I'ulecrized White of Eyy, said by the manufacture to be "the best known combininig agent (binedemitlel) for satusafes," is simply impure blood albumen.
E. Dressel's Chemosote, "a coloring agent for prepared suas ye-not to be ois sausarge lhat must be cooked," is a mixture of sodium =uiphate and sodium sul. phite, with some organic coloring matter.

Dresel's l'reserve Salt, "for repacking: American hams eecontly removed from the brine," turns ont to be merely pulverized borax.

## Hints For Business Men.

## N. C. Vowler, jr., of Boston, writes as

 follows:"The statement I make, that dull times ofice an unasually sood opportunity for seneral-local tazde.pushing iand advertis. ing, I back with the experience of many years, and the positive knowledge of hunidreds, if not thousinds, of advertisers who never think of eutting publicity expenses during dail times, and who advertise then, first, beculuse it always pizys to atreertise ; second, beciuse they pull trade awiay from the drones who are afraid to advertise, at. ${ }^{2}$ thereby build up tride for kecps; third, because people make up their minds to buy when good times conne, and will buy of the man who makes the best hard times anoưncenents."


## Wanzep Soaps. WANZER BATH SOAP

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## 帠 SMOKE <br> MINERVA , <br> RICHARD Ist <br> CIGARS. <br> FINEST 5C. GOODS


J. M. FORTIER,

MANUFACTURER,

## Colored Fires.

"Altiough the manufacture of colored lires: may not properly be included in tho practice of pharmacy, the druggist is frequently called upon to prepare them.
"The following formulas are designed for making lires suitable for theatrical illuminations, strect parades, etc., which are the kinds usually repuired to be mate by druggists. In the manufacture of tireworks at great variety of colored fires are made, but their formulas are not importint to the druggist.
"In making colored fires it is necessiry to observe some precation in powdering: and mixing the materials. The substances should be separately powdered, then mixed by means of at woden spatula, and the mixture kept in tin cans atway from moisture or heat. The sulphur directed is sometimes omitted from the formul: on account of its disararecable vapor, but it is not generally objectionable in the quantities used.

## 13.UE FHRE.

Dark blue may be mate by haking:
Sulphur ....... ............. 1 wume
Burnt aluan ... .............. 1 ounce.
Carlonate of cupher............ 1 unatce
Chlorste of potissimm........ .t onnces.
Shellac .................. . . 1 omace.
Powder the drugs fine and mix with the shellae in moderately coarse powder.

Light blue may be male by taking :
Sulphar ............. ....... 1 vunce.
burnt alum ..................... 2 ounces.
Chlorate of protassium. ........ + onnces.
Shellac ...... ................ 1 ounce.
Mix the same as the preceding. gates fint.
13ark green maty be made ley taking :
Nitrate of harium ..... .... 4 ounces.
Junic acih......... ........ 1 oun:ce
Chiorate of potassium ......... 3 nunces
Sulphur .. ... ... ........ . 1 aваке.
Shellac ....... ................ orncus
Powiler the druss fine and mix with the shellac in moderately coarse powder.
Lioht arcen maty he made lay taking:
Carloonate of Lariann ......... 2 umane
Saphiar ......................... 1 ansuce.
Cillorate of potizsium............ qunces $^{2}$
Shellace ........................ ounces.
Mix as the preceding.

## ned files.

Dark red may le made by taking:
Nitrate of strontimn.. .....Gi onncas.
Chlorate of gotassiann... .....2 anncos.
Sulphur ....... . .. ........ 1 oance.
Shellac ................ . .... 1 nances.
l'owder the drugs fint: and mix with the shelliac it: moderately coarse powder.

Light red or pink may be made by usi:ug only half the quantity of the nitrate of strontium, or as follows:

| Chalk - ....... ...........2 $\frac{1}{}$ пnneca |  |
| :---: | :---: |
| Suphar |  |
|  |  |
| Sitrate |  |
|  |  |
| Slicliac |  |
| Powder and mix ss the preceding. |  |
| hol.rs finf. |  |
| Burnt alam .................. 1 ounce Curikuase of potacilum ..... 1 ounco <br>  |  |
|  |  |
|  |  |

Chlorate of potassium. . . . . . . 4 ounces.
Shellac ..... ................. 1 vunce.
Powder the drugs fine and mix with the shellate in moderately coarse powder.

## watre file.

Nitrate of putassiam ....... 3 ounces.
Chareo.l........................ \& иance:
Sulphur .......................... 1 anace.
Shellace ....... .... . ........ . 1 »ииее.

## PHLDOW filt:

Sulphar ..... ................. 1 ounce.
1)ried curbmate of sulition.....2 anaces.

Chamate of protassilum.........5 onnces.
Shell.te ....................... 1 vance.
Powder and mix as the preceding.
"The foregoing are atl the colored fires that are gencratly required for theatrical illuminations, street parades, etc., but a great variety of other colors may be made by variously combining them, and many shades of color maty be mate by varying the quantity of the ingredients used.
miquid colonesp fints of flames.
"These may be made by dissolving cartain substances to saturation in alcohol or other liquids which will dissolve them, and burn rapidly. They are beost ignited in athallow iron pan, which, for sifety, should be set in a shallow pin of water. Considerable caution is required in burning these liquids, that accidents may be presented.
"The substances used should be finely powdered and triturated with the alcoliol in a mortar.
"Jhtue may be made by dissolving ace. tate of zinc in alcohol; green, by dissoleing boric acid in aloohol ; red, by dissolving nitrate of strontium in alcolol, or by making a strong tincture of lycopodiam; riolet, by dissolving carbonate of potassium in alcohol; yelluro, by dissolving nitmate of sodium in alcohol ; weilite, by dissolving: camphor in alcohol.
"Another methox of rexibiting colored tires, and periaps the best of all, is to mix the finely powdered substanees which produce the colors, as above, with a moderately thick solution of shellac in alcolool. They are thus suspended, and when burned give forth their charaetistic color."-Fiormadary.

## Therapeutics of Damiana.

The therapeutics of damiana seems to have progressed from the merely empirical stage io a point where it can be prescrib. ed with something like scientific accuracr. Though slower in action, it is analogous to strychina in effect, but more tonic than the latter. On the bowels it promodesincreased peristalsis, causing 1 or 2 mushy stools per day, and it is an effective remedy in the lanbitual constipation of neurotic subjects, especially of those who are victims of secual perversion. Incrensed diuresis follows its use, and many cases of irritable bladder and hirethra alt: very greatly benefitted by it. On the heart, illso, it acts as a tonic sedative erjual in some cases of functional disturb. anne to cactus grandifiorus. From the nibvo resume, it is plain why damisna lian proven socilemelous in casee of neryee
exhanstion resulting from sexual excesses, and why, fur from being :s direct stimulant of erotic desires, it has been found to act as a sedativo to abnomal sexual appetite. In short, it is not a "specilic,". but its so-called specitic action is but the result of its general tonic effect.-Clere. land Metl. Jonrual.

## Hazel-Nut Oil.

This oil hats recently been examined and appears to be almost, if not quite, as useful for medicinal purposes, as almond oil. It possesses a mild taste and smell and is of a bright yellow colour. It is not a drying oil. Its specific gravity is .9161. With the chadin test it gives a firm yellowish mass. It contains a small quatutity of free fatty acids, one: gramme neatralising . 0035 gramm:e of potash. Its saponitication equivalent is 191.4, and its iodine absorption 83.2. It becomes solid at $20^{\circ}$ and becomes liquid agoin at $4^{\circ}$. The fatty acids solidify at $9^{\circ}$ and melt at $17^{\circ}$. They do not give th: colour reactions of the acids of ahmond oil.-lharm. Keiluag.

## Against the Code.

A lady not feeling so well as she liked, went to consult a physician. "Well; said the doctor, after looking at her tonge, feeling her pulse, and asking her sundry questions, "I should like to adrise you-ahem!-to get married."
"-1re you single, doctor q" inquired the fair patient, with a significant suile.
"I am, my dear lady; but it is not etiquette, you know, for physicians to take their own prescriptions."-.Mealical sinluctin.

## Tolypyrin and Antipyrin.

These homologues, obtained in similiar mamers, resemble each other greatly. An easy method of distinguishing them is, therefore, useful. it weak solution of tolypyrin is rendered turbid by the addition of sodia solution, whilst antipyrin is only precipitated in strong solutions. If a mixture of tolypyrin with antipyrin is suspected, the nelting point will indicato it, since it melts below tha melting point of antipyrin.-lharm. Zcieung.

## Caffeine-Chloral.

Chloral possesses the well-known property of most aldelaydes, of combining with fecibly basic compounds, such as formamide, unia, cyanogets, de. It does so with caffeine. The compound so formed appears to be very useful in relicving constipation. The compound occurs in colorless tables, easily soluble in water. Professor Earald, of Murlin, hzs used it in hypodernic solution, in doses of . 2 to .3 gramme at a time, given two or three times ar day.Journal ile. Wharmacic el'Anrers.

Ku:ro-yous oth is the rolatile oil of a Japinoz3 Lisuracen, tha Indora foricia,


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 EEV Include one in your next order to your Jobber.WM. J. DYAS, STRATHROY, ONTARIO,

Solo Ascut for Canailan

## BUSINESS NOTICES.

Ay the desten of the Cavanas Dhecount is to lemefit mutually all interested in tho hushexs, we wouht reviuest alt parties orferini- wools or makluz purchases of any desription frombouses allicerlsinte with ur to mention in their letter that such adiertisement was notiecel in the Cavadiax Dncagist.
The attention of Drugristy and others who may lee thteretient in the artivitex allertixel an thits jommal, in call


## 

Jead Archatale Wilson \& Co.'s full page adrertisement on page 9 .

> 1':arku. 1):avis 心 cer.

Call the attention of the trade to some of their leading seasonable spuctialties on last page of cover.

The proprictors of Hijan's Tahles are showing theyr characteristic energy in pushing the sale: of their preparation, by advertising it cxtensively in a full line of papers. jlaving established at gempoll isency in Camadi, the goods may now ine oltained through all jobbers.

```
* Thu* Itjghent. .tuaral*
```

at the Clicasio Werks liatir. Who got it 1 Allims it Sons, for their Tutt Jirutti and other well known brands of chewing gums.

Crosuo I:attrranitk Sonag Cur.
Duttermilk has-long been recognized as a valuable acenent for clafing or roughness of the skin, but its incorporation in a soap. such as the: Cisano liuttromilk Soap Co. hate placel infore the pablic, gives us a preparation far superior to the old.fashioned remedy. The wonderful seles attained alreaty speak well for the favor with which it has been received, and we have no donbt the sale ins Canada will te equally rapit. See aulvt. on pase 25.

## Arthur jo. Tipurt ac Co.

are offering a very supurior brand of extra Purified Epsom Salts which they claim to the free from dirt and periectly dry- Write thean for samples, also for quotations on chemicals, cic. Advt out pase 4 르․

## Curtis de Nint.

of Porthand, Maine advertise their "Yan. kec lirand" oí Spruce Ciewing Gum, which is a ropid seller in the Unitad States and will probably "take" with Canadians.

are offering special lines in rubber goorls in their adve. on page 3. licing exclusive denlers in manufactures of rul). ber, their stock is always iresh, well as. sorted and of the newest soods.

## linur in Fierg ilie Niank.

liy the time this raches our readers the 「anglefoot scason will be practicilly over. The retailer as a rule has a nuantity lefi over. To insure its perfect condition next scason and to avoid loss to their friends the mannfacturers request every dealer to look after lis stock. Full cases sill take carn of themselvesif kept ievel boxes and parts of hoxes should be kept in a place of uniformily
and moderately warm temperature and where they will not be disturbed needlessly, the cornice in tho store or a high shelf in the store room would be admirably suited for this. Tanglefoot keeps well in almost any condition, but if stored ats above will keep with absolute certainty and without the loss of a single shect to the deaker - this the manufncturess de sire illuve all.

## Magazines.

## Thac: Comanombilian.

The second edition of The Cosmopolitane for Suptember brought the tetal edition up to 211,000 copics, without doult the largest edition of any magaciace in the worll for this month. It remained for The Cosmopolitha to bave the World's Fair treated in a single namber by twelve different writers. As the exposition of 1593 must remain one of the leading events in the history of the United stitles, the most distinguished men were asked to prepare this magazine volunn, which is destined to become valualle as one of the most perfect descrip. tions of the Worid's Fair. Among the number of those who contribute are our only ex-president, Waiter lBesant, the most distinguished of the English literary unch who visited the exposition, and a host of others. Besides the usual fiction, inchading is story by Mark Twain, entitthel, " Is He Inviag or is He Dead," and the: regular departacnts, The Cosmonolitan contains nearly oade hundred illustrations devoterl to the World's Pair, inclating cleven full pages. It is pronounced one of the most remarkable of the publications yet issurd regarding the Fiair. It is a completely illustrated guide or souvenir, is one prefers to call it, by the most famous writers of the day, put hefore the reader at the price of $12 \frac{1}{2}$ cerits, and a:ore than the equal of the books of the Fair whirla sell for serenty five cents and one dollar.
The divelumelie lievien ar current nitiotory for the secund Quarter of 1593 is now realy. It is a wonderiul compandium of the prominent events of the last three monthis; while its suljects are of necessity, briedly treated, nothing of importance apperars to liave bern omitted. Under the general titles of "Tculing Topics," "International Amairs" "Amirs in Europe," "Affairs in Asia," "-Affairs in Afrien," "Science, Hiterature, :nd Miseellany;" it details the world's most recent happenings with singular minutinces, propicacity, and fidelity; telling all that realiy needs to be known about any one subiject, and referring to all suljects of consenuerece in a most intelligent and practical way. A work like this is anecessity in these buasy, bustling times ef oure and this work seems to be the best of its species While there are similar publications, the Cydopredic Reciere holds an origiual and exclusive position. Its peculiar merits entitle it to general recognition. (Garretson, Cos if Co., Publish.
(us, 13ufiaio, N. Y. Sl.50 per year: single copies, 10 cents.)

De:al Gently Willa The Etring:
We have just received a copy of the greatest home song ever published in this country. The privilege of publishing in America alone cost $\$ 2,000$ in gold. It is a song that will reach the heart of every christinn in the lami. The molody is perfectly beautiful ; can be played on piano or organ. We give our renclens the first verse and chorus:

## fILST VEILSE.

Deal gently with the erring!
Ye know not of the power
With which the dark temptation came In some unguarded hour.
Ye may not know how earnestly
They struggled, nor how well,
Until the hour of weakness came, And sadly thus they fell.

## chomus.

Forget not thou hast often sinned, And sinful yet must be! Deal gently with the erring one As God hath dealt with thee.
Price, 10 cents per copy; can be obtaincd by addressing the publisher, FI. W. II elmich, 265 Sixth Avenue, New York.

50 Our readers will receive a copy by seading 20 cents in postage statups.

Solumitis of Maicumc Tomide is Mermyasis: Tomine.-Consilering the indifference of red iodide of mercury to other liquids it is quite soluble in methylene iodide, being moresoluble in the warm liguid than when it is cold, the salt separating out on cooling in the yollow moditication. dt $100^{\circ} \mathrm{C}$., one part of the salt dissolves in six of methylene iodide, and iS parts of salt will dissolve in 100 of the liquid at $150^{\circ} \mathrm{C}$. the boiling point of $\mathrm{CHI}_{2} \mathrm{I}_{2}$ being $182^{\circ}$ C.-Lictyers in. Zcitscher. fAnorg. Ch.
 remiater Trace-Marks, Coprrighis and labed; foes. Weresmition fuictichinlity freeorctinfke. Y 12 gaformajng and frma inand boox write lai



## BUSINESS FOR SATE.

D
IHGG MUSINFAS in Northera Ontario, payi:s well, molerate and well selectel stoct. The owncr being a physician, is oblipeel to give his whole attentiont to his practioc. Aidiness-" Mrinces," care Canadian lorggist, Strathiroy, Ont.

## SITUATION WANTED.

CITGATION WaNTED as Drug Clerk ly a younf man of three years' expericnec. Can furtish poonl refererices. Allaress "F. IV. C R" 3 . 3 Church Si, Joronio.

## FOR SALR.

A DRUG HUSINESS IN HAMMLON, in onc of the lest stands. Stock nbount \$8,000. Will acecpt linsiness in conitry as pare piyment. Gool reasons Enr melling. Apply-- Dive:cist," care-Archdale Wilson it Co., Hamilton, Ont.

## Vanilla Cultivation In Mexico.*

At the time of the conquest of Mexico, the Aatecs used the vanilla for flavouring chocolate. The Spaniards leariced its use. from them and introduced it into Eułope: Gathered at first from the vines growing. wild in ti:o forests, ${ }^{\text {a }}$, its cultivation as a special industry becaine prolitable, though just at what date: there anc; no records to slow ; bul we find that as early as 1760 there were mainillales, or vanilla phametations in the vicinity of papantla.
A native of Eistern Mrexico, this plat grows wild in thie State of VeraCrumfrom one extremity to the other of its coast line, and from the: seat leach up to the mountains of the Sierraz. It is cultivated mainly in the cantons of Nlisunthand Papantlia, in that State, the little that is produced in Oaxacir being for the most part gathered from the vines which grow wild and uncultivated in the forests.

The vanilla plant belongs to the orehid Eanily, has n pulpy stem which grows to several yards in length, attaches itself to trees, and appears to le little dependent

Sroma ahe berixta Financiera Mexicanc.Phar. Jl.
on the sill "for nourishment. The leives are lanceolate and pulpy, and the yellow Howers bud from the dixilla formed by the leaves with the stran. Thy fruit is a pod from six to twelve inches long, and about half an inch in diameter at its thickest part, tapering down towards the stem, curved in its entire length, dark grean in its carlier stages, and ycllow when fully nipe. It is filled with minute black seeds, somewhat resembling iron tilings. When prepared for market, the pod becones reduced to about as quartur of its origisal thickness, is black in color, and, it is neredless to saty, emits a very agreeable perfume

Six varicties of vanilla are known in Mexico, namely, the mansa, the cimarrona, the mestiza, the pompona, tho puerco, nad the mono. Of these the mansit is the only one cultivated. The cimarrona, or wild vanilla, lans a more pointed leaf and a thinner vine than the mansa; the pod is shorter, rounder, nad thinner. The mestiza has more pointed leaves than the mansa, but less so than the cimarrona; the size of the pods is smaller than those

## THIRD EDITION.

## MANUAL OF PHABMACY

AND

## PHARMACEUTICCL CHEMSTRY,



thean of the Outarjo Collegenf I'tarmary atul tormerly Inklruchor in Theory ann I'ractice of i'harmacy In the S. S. Cullorice of dhatmace.

The stuly of Pharmary simplibied lay a sys. tematic and practical armagement of topics, and the climination of maceessiry matter.
Ther Book is a Clolh Bound, 1 ?mo., of 哿 J'uys.
The minst practical work yet published for the use of pharmacentical stuicnts pegaring for Collere or Nhate bavard ENaminationas It can le reul with profit ly all pharnatists seeking the correct understanding of seientific plarmaceutical literature in or acral It is alsu. ... culated to insure at sumbil fonumation to tho
 training in collours of plarmacy.

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 afon jrejpalis.

> A Synopsis of the British Pharmacopucia Preparations.

lif tit: sias: Aztatom

The oliject of this work in th furninh, in a most convenitat mazucr, a methond for the stumly of the ulticial frepurations as to their lastin antl finglish titles az:d xynomgan, their compositien, methonls of prefarazion, strengilit, ilosen, ctc, aranuged in clatres.
With this chil in riew the If 1. jreluaratinus have locen talulated sud, ies most cases, the insdivilual members of ench clast divided into дroujn, zach group presenting some gencral fexturc: in combinn, in mole of jreparaijnn, ingreilicuts, similarity of active cunstitucuts,strengih, close, lazace, cte. This lxak will lue found an in valuabile zial to npprentices abil stumients in plismanacy or molicine.

## Price 81.00. Interienved.

Fither of these lamens will le mailed free of postane on receipt of jujec.

## CANADIAN DRUGGIST

Stratimot; Casada
of the mansa, mod larger than those of the cinarromm This variety is scarce, and when prepared it can hardly be distin. guished from the mansa. The pompona (signexante or bamana vanilla, as the Totonaco Indians, who occasionally cat it, call this variety) inas larger and rounder leaves, and a vine one half thicker than the mansin; the pod is double the sion, and triangular in shape, resembling somewhat a badly nowishod plantam; it has an extremely pleasant smell, not unlike anise, and is used in Mabame by the tobanco manufacturers to mix with cigrars. The puerco and mono, which grow wild and resemble the cimarronat, are not used in commerce.

There is yet mother vanilla, called the tarro, or bamboo vanillia, which is considered by many as a distinct species, but is really nothing else than the mansa frown in the tarrales or bamboo thickets in the depths of the virgin forests. where it does not recrive a sulficiency of sun and air, and produces a pod thinner and longer than the ordinary mansa.

The vanilla buyers formerly divided the prepared bean into four classes namely:-

1. The beans or pods from six and a half inches long and upwards, short in the neck or stalk, sound and black; the beans which become split or open, provided they have the foregoing qualitios, and the split does not extend more than a third of the pod. This class was again subdivided into terciadte, which is eomposed of the
shortest pods; primera chica, which contains tho next in size; primera graude, the next; marca menor, the next; and marca mayor, tho largest of all.
2. Those pods which differ from the terciadu only in being shorter, two of them counting as one of the first class.
3. Zacale, or the pods of all sizes which are imperfect through being gathered before becoming properly ripe, or being over cured, pescozulela, cenat, cucrude, and cposcoyunida, all names for pods in a more or less damaged condition; and cimarrona or wild vanilla in good or fair condition, three pods counting as one of the first class.
.4. The rearacate, composed of the very short pods; of those split clear up to the stalk ; of the badly damaged; of the very immature; and of the very much over cured, which rescmbles a piece of wood; of this fourth class, six pods counted as one of the first elass. The quantity of this and of the second class, was always very limited.
At the present day, the only distinction made is between the best class and the cimarrona and rezacate, the last two being sold at a very much lower price than the former. Hoth buying and selling are carrial out by count.
S.tntonolactone has been recommended as :a substitute name for santonin, in order to prevent its being confounded with strychnine.

## —: OUR :--

Latest Impordions.
ALUM, in 6bls.
ALUM POWDERED, in bbis. FINEST EPSOM SALTS, in bbls. FINEST SUBLIMED SUIPHUR, in bbls. ROLL SULPHUR, in bbls. CHLORIDE LIME, in casks: SALTPETRE XTALS, in kegs. SALTPETRE POWDERED, in cashs. POWDERED HELLEBORE, in bbls. GLYCERINE, in tins. WHITE CASTILE SOAP, bars. WHITE CASTILE SOAP, cakes. PARIS GREEN, in casks and drums. GIBSON'S CANDIES, full assortment.

Your Orders Sollcted.
las. A. Kennedy \& Co.
IMPORTERS,
London, - Ontario.

## Holiday Goods for Druggists Only.



We have given our Holiday Line special attention this season and wee are now ready to fill orders.

Tiue Line includes Cut and Decorated Bottles in Crystal, Vonetian and Japanese Ware, attrastively pat up in<br>FANCY PAPER BOXES, SATIN LIINED BOXES, HAND PHINTED BOXES.

Thic Largcst and Handsomest Assortucut cever shozon in Canada.
PLEASE RESERVE YOUR ORDER.
It being our desive to liavie the Leading Drusgists thiroughout the Dominion handle our goods, should our representative not call on you reguiarly, please notify us that ze may arrange to do so.

Mail busincss solicited and given the best of attcntion.

# Dealers in ~ - <br> DRUGGISTS' SUNDRIES, FANCY GOODS, SMOKERS' ARTICLES, FANCY STATIONERY, OPTICAL GOODS, CHEMICAL APPARATUS, ©்c., <br> The Canadian Druggist 

Reaches the Drug Trade in all Provinces of the Dominion-guaranteeing a circulation unattained by any other.

REFERENCES:-OUR ADVERUISEIRS.

## Canadian Druggist Prices Current: CORRECTED TO OCTOBER, 10th, 1893.

| The quotations given represent arerage prices |  |  |
| :---: | :---: | :---: |
| for quastities usually purchase | ed by | Retaii |
| Dealers. Larger parcels may be obtained at |  |  |
| lower figurey, but quantities | smallar | than |
| those na:ned will command an and | cance |  |
| Alcoirol, gal. | St 05 | E423 |
| Maxhyl, gal. | 130 | 200 |
| Altsirice, lb | 13 | 15 |
| lowdered, lb | 15 | 17 |
| Alons, 02. | 40 | 45 |
| Avodrse, Hofman's lot., lus | 50 | 55 |
|  | 4.5 | 50 |
| St. Vincent, 11. | 15 | 15 |
| Batsast, Fir, lb. | 45 | 20 |
| Copaika, 1b. | 65 | 75 |
| Peru, lb. | 250 | 235 |
| Tolta, can or lexs, 11 | 75 | S0 |
| Bark, larberry, lb . | 22 | 25 |
| Brylerry, 16. | 15 | 18 |
| Buckthorn, lb................ | 15 | 17 |
| Canclla, 16. | 15 | 17 |
| Cascara Jagroula | 25 | 30 |
| Cascarilla, select, Ib | 15 | 20 |
| Cassia, in mats, lb | 15 | 20 |
| Cinchona, rel, lb. | 00. | 65 |
| Powdered; lb. | G ${ }^{3}$ | 9 |
| Scllow; 16. | 33 | 40 |
| Palc, 16. | 40 | 45 |
| Elm, selecter, 31 | 16 | 18 |
| - Ground, lb. | 17 | 20 |
| Powdercel, 1h, | 20 | 25 |
| Memlock, crushei, 1b | 18 | 20 |
| Oak, white, crished, ll, .... | 15 | 17 |
| Orango pecl, hituer, lb........ | 15 | 16 |
| Priciely ash, lb. | 35 | 40 |
| Sassafras, 16. | 15 | 16 |
| Sozp \{quillaya), 16 | 13 | 15 |
| Wild cherry, 11, .. | 13 | 15 |
| Benss, Calalar, Ib | 45 | 50 |
| Tonke, 11. | 150 | 275 |
| Vanilla, 16 | 700 | S 00 |
| BEaraes, Cubeb, sifted, 1 lb | 75 | So |
| - powlered, 1 | 85 | 90 |
| Juniper, Ib ............. | 10 | 12 |
| 'Ground, lb. | 12 | 14 |
| Prickly ash, 16 | 40 | 45 |
| Hicis, Ihalin of Gilead, lb | 55 | 60 |
| 'CCassia; lb... | 25 | 30 |
| Buztrr, Cacmo, 1 l | 75 | - 80 |
| Caxprior, lh... | 65 | 70 |
| Canruarioes, Rassian, ib | 200 | 210 |
| Pnwdered, lb. | 210 | 220 |
| Catsicex, Ib. | 25 | 30 |
| Porsdered, 16. | 30 | 35 |
| Cardon, Biunlphide, lb.......... | 16 | 18 |
|  | 40 | 50 |

 Shellac; ${ }_{7!}$


# BRAMWELL'S 

Extra Purified
EPSOM SALTS
Specially Prepared for Druggists.
FREE FROM MOISTURE.
FREE FROM DIRT.

# The Finest Quality Made. 

SAMPLES ON APPLICATION.
ARTHUR P. TIPPET \& CO., Agents for Canada, Toronto.

## DRUG REPORTS.

## Ontario.

Husiness shows signs of inprovement. Opium has advanced fully 10 per cent. during the past month. The future of this articic is mere speculation. Morphia, of course, sympathises with it and is quoted higher.
Solnl, deatitad laige, siocks in the city about exhausted.

Coca Leaves and Cocaine are lower.
Spices generally are higher for tirstclass goorls.

Oils of Berganot, Cissiat, Eucalyptus and Winter Green, are easier.

Gum Arabics, easier.
Gum Shellac, higher.

## Engiand.

London, Sept. 26 th, 1893.
The month has been rather a dull one for business although there are signs of improvement. This is particularly noticeable in drugs, the chemical market gencrally being liat.

Quinine has hardened during the last week and with a fair demand prices were higher.

Cascara and Jahap are also dearer owing to scarcity of supplies on this side.

Adverse reports have lxeen confirmed as to the Otto de llose crop this year and a considerable increase in value of all grades has tiken place.

From the same cause the English Esgential Oils of Cavender and Peppermint are much dearer.

Balsam of Peru is casier.

## Ergot, a shade lower.

Jrborandi Leaves are very searce and dear.
Pilocarpine is quoted at a considerable Bidvance.

Demand for Sulphate of Copper has slightly entanced values, but the inerease is not regarded as permanent.

The coal strike which still continues has aflected Caustic Potash, only as small amount beins now produced.

Oxalic Acid is very firm and the price advancing, ats no stock exists.

Bleaching Powder is in the same cate. gory with Caustic Soda null from t!! same cause.

## Syrup of lodide of Iron.

M. Roussillon prepares this syrup from a solution which he claias to be unalterable when kept. Iodine, 16.40 Gm ., iro: filings, $S$ Gm., and distilled water, 30 Gim., are beated together until the reaction is complete, and the solution filtered whilst hot into at vessel containing puro glycerin, 220 Gm. The filter is washed with in jet of boiling distilled wnter, and the mixed liquids are then warmed gently until the contents of the vessel weigh 240 Grammes. The solution is immediately poured into well dried vials, containing when filled 15,36 , and 72 Grammes respectively, these are at once corked securely and, when cool, the corks are well paratlined. When required for use the contents of the vials are mixed with sufficient syrup to make $\frac{1}{4} \frac{1}{2}$, or 1 Litre of syrup of iodide of iron, according to size, and both the solution and syrup thus prepared are said to keep without clange.-Jonern de lliaiom.

## Oleo-Creasote.

This ester of oleic acid and creasote is a yellow, vily liquid, having a faint oilor of crasote but free from the crustic taste of creasole; it is insoluble in water, ilcohol and glycerine, but easily soluble in. absolute alcohol and ether. Being anmutral body, daily doses of $10-15$ grains can be administered without interfering with the functions of the stomach. It can bo
made by allowing $i+4 \mathrm{gm}$. pure creasote and $109 \cdot 2$ gin. pure oleicacid to stand for seversl hours before heating in an oilbath to $135^{\circ} \mathrm{C}$. for 12 hours; the product is then repeatedly washed with, dis. tilled water, next with a dilute soda solution and listly again with distilled water; to remove tho last traces of water it is agitated with anhydrous sodium sulphate. The yield is rather unsutisfactory, is.only noout lifty per cent. of the theoretical quantity is obtained. C. Levy, Joumi. der I'harm. v. Els.Lothr.-Amer. Al. Parm.

## Mixtures That Explode.

Beri and Cari Mantroud in a note presented to the Paris Chemical Society state that hy mixing barium hypophosphite and potassium chlorate dried and palverized scparately, an exceedingly coinbustible substance is obtained. Ignited in the open air a dull explosion takes place, but the slightest obstacle to the free escape of the gase; renders the explosion: erritically violent; analogous to that of fuiminate of mercury. This powder is exploded: by any gentle shock, the striking of the pes. tle against the side of the mortar, for inistance. A mixture of syrupy sodium liypophosphite with sodium chlorate in powder, forms an explosive as violent as nitro. glycerin. Hented on a leaf of platinum this mixture first liquifies, then dries, and suddenly explodes, blowing a hole through. the platinum foil.

Tonquinol is a new compound ofered as a substitute for musk; and is said by the patentees (Germany) to be n derevative of a nitrited terpene and a nitrited sulphoacid of xyol." Tonquinol is in the form of a white crystalline gowder, which, after solution in tifty parts of alcohol, may bo mixed with water in all proportions. It: is claimed to be very permanent and cheaper than Baur's artificial musk.
It is the men who investigate that pro. gress; the conditions of yesterday aro seldom repeated,

| CidS-l'urity, 100 aticksin box - 75 |  |  |
| :---: | :---: | :---: |
| " Yurity, 200 sticks in brox | 150 | ) 50 |
| " Acmo Pellets, Elb. tins | 200 | 60 |
| 4 Lotenges, 5 lib. tins.... | 1.50 | 175 |
| * 'Tar, Licurice \& Tolu, 6 |  |  |
| Ib. tins. | 200 | 200 |
| Lupulis, oz. | 30 | 35 |
| Lycoronitm, | 70 | 80 |
| Maur, lb. | 120 | 125 |
| Mansa, lib | 160 | 175 |
| Moss, Iceland, | 9 | 10 |
| Irish, lb. | 9 | 10 |
| Musk, Tonquin, oz | 1600 | 5000 |
| Nurcails, lb.. | 21 | 25 |
| Powdered, | 25 | 30 |
| Nutmers, lb. | 100 | 110 |
| Nux Vonica, | 10 | 12 |
| Yowdered, 1 | 25 | 27 |
| Oakum, lb. | 12 | 15 |
|  | 70 | 75 |
| Citrine, 1 lb . . | 45 | 50 |
| Paraidehyde, | 15 | 18 |
| Pripen, black, ll | 22 | 25 |
| Yowdered, 1 , | 25 | 30 |
| Pitcir, black, ib | 3 | 4 |
| Hergundy, true, ib | 10 | 12 |
| Plasteh, Calcined, bbl cash | 225 | 325 |
| Adhesive, yd............. | 12 | 13 |
| Hellaiona, 1 b | 65 | 70 |
| Galbarium Comp., 16 | 80 | 85 |
| Lcad, 16...... | 25 | 30 |
| Pordy Hesns, per 100 | 100 | 110 |
| Rosis, Common, 15. | 21 | 3 |
| White, 1b..: | 31 | 4 |
| Resomels, White, | 25 | 30 |
| Rochelle Salt, lb | 25 | 28 |
| Root, Aconite, lb. | 22 | 25 |
| Althea, cut, lb. | 30 | 35 |
| Belladona, Ib. | 25 | 30 |
| Blood, lb... | 15. | 16 |
| Bitter, 16. | 27. | 30 |
| Blacklerry, ib | 15 | 18 |
| Burdock, crushed, ib | 13 | 20 |
| Calamus, sliced, white, | 20 | 25 |
| Cannula Snake, 1b..... | 30 | 35 |
| Cohorh, ${ }^{\text {a }}$ 3lack, Ib | 15 | 20 |
| Colchicum, 16 | 40 | 45 |
| Coluinto, 16. | 20 | 22 |
| Powdered, | 25 | 30 |
| Coltsfoot. lb. | 33 | 40 |
| Comfrey, crushed, -lb | 20 | 25 |
| Curcuma, powdered, | 13 | 14 |
| Dändelion, 1b.. | 15 | 18 |
| -Elecampane, 1 | 15. | 10 |
| Galangal, lb | 15 | 18 |
| Gelsenium, | 22 | 25 |
| -Genitan, lb | 9 | 10 |
| Ground, :1b | 10 | 12 |
| Powdered, lb | 13 | 15 |
| Ginger, African, | 18 | 20 |
| Po.plb. | 20 | 20 |
| Jamaica, blchd., lb | 27 | 30 |
| Po., lb. | 30 | 35 |
| Ginseng, lb | 300 | 35 |
| Golden Seal. 1 | 75 | S0 |
| Gold Thread, 1 b | 90 | 05 |
| Hellclore, White, powa., Jb. . | 12 | 15 |
| Indián Hemp... .............. | 15 | 30 |
| Ipocac, lb. | 265 | 235 |
| Yowdered, lb | 230 | 300 |
| Jalap, $15 . .$. | 55 | 60 |
| Powiderca. 16 | 60 | 65 |
| Kaテ̃a Kaia, $\mathbf{1}$ ¢. | 40 : | 90 |
| Licorice, 1 l . | 12 | 15 |
| Powderal, 11 | 13 | 15 |
| Mandrake, lb.. | 13 | 18 |
| Masterwort, 1 lb | 16 | 40 |
| Orris, Klorentine, 1 l | 30 | 35 |
| Yowdered, lb..... | 40 | 45 |
| Parcira 7rava, truc, lb. | 40 | 45 |
| Pink, lb... | 75 | 80 |
| Parsley, lls. | 30 | 35 |
| Plourisy, ll | 20. | 25 |
| Poke, 1b. | 15 | 18 |
| Quicn of the MIculow, 16 | 18 | 20 |
| Rhatany, 1b. | 20 | 30 |
| Rhuluarb, 16. | 75 | 250 |
| Sarsaparilla, Hond; lb | 40 | 45 |
| $\because \mathrm{Cut}$, lb: | 50 | 53 |
| Senesa, 16. | 55 | 65 |
| Squill, 1b. | 13 | 15 |
| -tallingia, lh. | 22 | 25 |
| 'Powdared, lbi.tiouio.oi.e. | \% | 97 |





Ihoracic, 1 l, .
Carbolic Crystals, 1 lb .
Calvert's No. $1,1 \mathrm{l}$.
No. 2,16
Citric, 16.
Hallic, oz. ...................
Mydrocyanic, diluted, oz. lot-
tics doz ….................
Muriatic, Hu......
Nitric, ib........
Chem, pure, ib
Oxialic, If.................
1
Dilute, 15.
l'yrogallic, oz....
Sulphuric, carlsoy, ib ..........
Chem. pure, lb.
Tannic, lb
Tartaric, powderei, i,
Actitavinid, lu..
Aconitine, grain
Agina, cryst,
lowderel, 'll,
Ansonia, Liquor, ib . 580
AmMosivm, liromile, lb..
Carbonate, lb.
Iodide, oz.........
Nitratc, crystais,
Muriate, lb .
Valcrianate, oz
Amil, Nitrite, oz
ARTINERVIS, or.
ANTIPYRIS oz.
Aristol, oz
ARsvixc, Donoran's sol., $\mathfrak{l}$.
Fowler's, sol., 1 l.
Indide, 02.



12
45
13
13
50
20
90
21
215
70
12
37

100
150
$\stackrel{3}{18}$
101
25

100

180
Bisalutit, Ammonfacitrate, oz..


| Silicylate, oe..... .... .... |  |
| :---: | :---: |
| Sulkentbonate, ${ }^{\text {Sulbitma }} 16$. |  |
|  |  |
|  | Homas, Ib |
|  | l'owdered, lb. |
|  | lhumine, or... |
|  | Canmiva, liromide, of |
|  | lostide, of.... |
|  | Gameium, Mypohnosphite, |
|  | Ivilide, 0¢.... ..... |
|  | Phosphate, precip., ll. |
|  | Sulphinke, vi. |

Hypophesphites, of Iodide, o\%..

Phosphate seales, llo............ 12


Anil Ammon Tartrate, ib .
Lesth, Acetate, white, Ib......... $\quad 13$
Cirlmnate, Ih...................
7


Red, Ib...

Lituman, Bromide, oz ................. 40
Carlonate, of.................. 30






With Chalk, Ib . ...............
Iodile, Proto, or...............



Pintisicritist, uz. ........


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