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## CON'IENTS.

Window Advertising.
Time Must be Saved in the Retail Store. Pharmaceutical Examinations.
Acetylene Gas
Very Satisfiactory.
Decalcifying Sponges.
British Columbia Notes.
Pharmacy at Cape Colony:
To Entertain Members of A. P'n.A.
Business IIelps.
licms of Interest.
Trade Notres.
Montreal Notes.
Meeting; lield.
Puakmacy in Engi,and.
Emergencies: How to Treat Them.
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lecent latens and Trade Marks Relating to l'harmacy:
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- New Books.

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Cajurut On in Crourous Paeu-movid.-Sinha (Therap. Gaz.) has treated eighteen cases of croupous pneumonia with great success with oil of cajuput. The oil is given in the form of an emulsion in doses of five minims.

## Window Advertising.

The matter of window dressing has become an important feature in all lines of business. At one time the dry goods dealer, haberdasher or clothier were almost the only merchants who gave particular attention to this all-inportant form ot advertising, and the chemist and druggist contented himself' mainly with the colored show botties or handsome Jars which always have been the acknowledged sign of the "apothecary shop." With the advance in public taste, however, and the desire to "catch the cye" of the people, window dressing has now become quitean art with the modern druggist, and it goes without saying that it is one of the most profitable forms of advertising adopted by the drug trade.
The bright, shory window, neatly but not too profusely decorated with goods which are in general demand, so placed as to attract attention, and to stimulate the desire of the public to possess them, has now become a leading feature not only of the city drug store bint also of those in smaller places. With some of the trade, however, this excellent form of advertising is still neglected. We have seen some windows in which a promiscuous assortment of patent medicines, toilet articles, sponges, etc., were so inartistically and crowdedly throcen into the window that the first impression of the passer-by would naturally be, that is if it even would draw the attention of any one, that he was passing a iunk shop or a "clearing sale" of job lots of all manner and kinds of goods. A druggist should carefully consider what impression is made upon the public by his wares and notably by his display of them. If in passing the store window the glass is shining, the contents are clean and tastily arranged, and the general appearance one of neatness and care, is it not natural to suppose that the interior is kept in the same neat, methodical order, that the preparations made there are to be relied upon as being;made with the same
care as is shown in the arrangement and display of goods and the prescription work is done in the same way, with a view to care, cleanliness, neatness and reliability? On the other hand would not the careless, dusty and inartistic window display give the impression that this was an index of the interior of the store and the work done in it? We believe our readers will agree with us that the up-to date druggist who puts forth his best efforts to make his window, his store and the surroundings as attractive as possible is bound to be well repaid for any additional time or habor bestowed upon it-and the general public will show their appreciation by patroniziag this place of business in preference to one who neglects these important features of "business bringers."

## Time must be Served in a Retail Store.

The Council of the Pharmaceutical Association of the Province of Quebec has recently ruled that apprenticeship in a wholesale drug house will not count. Wholesale houses are, expressly, by clause 4052 of the Pharmacy Act, "exempt fiom the operation of this act so long as they confine themselves to wholesale dealing." It is evident that an apprentice cannot learn all the branches of pharmacy in a wholesale store which be would necessarily be daily in contact with in a pharmacy proper. Take dispensing, for instance. It is slowly and by degrees that an ap. prentice hecomes acquainted with this art, and it is rarely that he is entrusted with putting up prescriptions of a dangerous character until he has been practically engaged in handling drugs some two or three years, and even then he is under the surveillance of the chief clerk or proprictor. We are of opinion that after a youth has passed his certified clerk's examination, a year spent in a manufacturing pharmacist's laboratory would be of great service to him ; but from examples we have seen we do not think that three years in the routine work of such a laboratory could possibly supply the place of the same length of time spent in a pharmacy proper.
In concluding we camot refrain irom protesting against the tone of a contemporary while discussing the merits of the recent ruling. The Council of the Pharmaceutical Association is open to public criticism, and it may be that a temperate discusssion of the question might induce the Council to modify its decision and permit a certified clerk to spend one year
in a manufacturing chemist's laboratory affer passing his minor and before presenting himself for the major.

We quite agree with the contention of the editor of Merck's Report in reference to the education of the pharmacist where he says (Vol. xii., No. 7): "It is in the laboratory such as it may be, not of his college, but of his employer's store and behind the prescription desk that he slowly accumulates the quality of a true pharmacist."

The law in England requires (vide Chemist and Drugsist, volume 52, number 937, page 561 ) that the candidate for examination must produce a certified declaration that he has been for three years practically engaged in the translation and dispensing of prescriptions.

Now as wholesale druggists cannot legally dispense prescriptions and in fact do not do so, it is evident that the apprentice would not have the kind of experience required in a certified clerk, if his time were spent other than in a retail drug store.

With regard to the increase of the annual rees paid by licentiates, certified clerks and registered apprentices, the Council has the law on its side, and we feel confident the Council would not have resorted to this measure without urgent necessity. The fight at Quebec was long and bitter, and it was necessary to cherkmate all the tactics of the enemy, who was well supplied with funds, and from what we know of Mr. Muir, the worthy secretary and registrar, and Mr. Williams, the president, we feel satisfied there was no uscless expenditure of money. It is certainly worth \$10 to any pharnacist engaged in active business to be free, to a great extent, from departmental store fake competition, and it is clearly understood that this apparently exorbitant fee will only be for the current year.

## Pharmaceutical Examinations.

The sessional examinations of the Montreal College of Pharmacy closed on Thursday, March 3ist, and the following studems, named in order of merit, passed the December and March cxaminations, namely:

Materia ".edica, senior class, EnglishG. H. Voss, prize; Alfred James Bedard, A. E. Baldwin, Allan T. Christic, F. J. Lemaistre, Moses Albert, O. H. Tansey, C. F. Covernton.

Materin medica, junior class, French--
G. Richard, prize; Miss A. A. Prevost, Hercule Guerin, Joseph Valois.

Chemistry, junior class, English-A1fred J. Bedard, prize ; ' 1 . A. Swift, E. Dercy Jones, Allan T. Christie, Moses Albert, A. E. Baldwin.

Chemistry, senior class, French-Gustave Richard, prize ; Miss A. A. Prevost, Hercule Guerin, J. A. Goyer, S. Moisan, Gilbert Faulkner.

Botany Class-George H. Voss, prize ; S. Moison, D. R. O'Neill, P. G. Mount, C. A. Dechenes, R. Pasquin.
'The annual meeting of the college will be beld on Thursday, May 4 th, when the prizes won by the students will be presented.

## Acetylene Gas.

An interesting lecture on " Acetylene Gas as an Illuminant" was delivered April $5^{\text {th }}$ in the Grand Trunk literary and Scientific Institute rooms, Montreal, by Prof. T. D. Reed, M.D., Dean of the School of Pharmacy. The properties of the gas were explained in a lucid manner. It is a colorless gas, with a pungent smell, by which its presence in a room can be readily detected. Its specific gravity is 0.91, or about nine-tenths that of air. From burners, specially prepared for it, which were exhibited by the lecturer, it burns with a very strong, luminous white flame. One cubic foot contains 868 units of heat, somewhat greater than that of common gas, but at present its great value has only been recognized as an illuminant. It is claimed that when burning the acctylene gas only gives off about a suxth as much carbonic acid, and none of the poisonous carbonic oxide, as does coal or water gas. Shades of all colors are easily detected by the acetylene process. It is also claimed that a burner emitting one-half of a cubic foot of gas per hour will, when burning, give a light equal to 25 standard candles, whereas a burner emitting five cubic feet of ordinary gas per hour will give a light of only 18 standard candles. From an economic point of view it is clamed that there is a very large reduction in the pricc of this gas compared with ordinary gas.

It is not considered dangerous as regards its explosive propensities; there is also little or no danger resultung from the gas being blown out by the ignorant.

Acetylene gas, as explained by the professor, is developed from carbide by the application of water, through the aid of a generator. Its utility for stereopticon


Are used by Druggists throughout Canada, and are pronouneed to be the best in the market. No up-todate chemist can do without them.

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purposes was vividly shown by the production of various views. The lecture throughout was listened to with much attention, and was thoroughly appreciated. At the conclusion of the same a cordial vote of thanks was tendered the lecturer.

## Pharmaceulical Examinations.

Montreal Comege of Pmarmacy.
materia medica and pharmact semor Class, March 3IST, 1898.
Examiner, Prorsssor 'T. 1). Resu, M.D., J.P.
1-Name four derivatives of alcohol of medical value and show by an equation the production of one of them. 2-Distinguish between hydrocarbons and carbohydrates. Give four examples of each, and note the chief chemical differences which distinguish them. 3-Distinguish between distillation, fractional distillation, destructive distillation, distillation in vacuo. What are the conditions for obtaining a satisfactory sample of distilled water? 4-What is a ferment? Name four products, obtainable by as many dif. ferent ferments. 5-Give a concise account of the botany and pharmacognosy of Ergot, give also the official preparations with strength. 6-Nux Vomica, definition, botanical name of plant, medial action, official preparations. Give in outline the official process for titrating the Galenical preparations of Nux Vomica. 7-Relate the modern idea, as to the constitution of Alkaloids. What are Leucomaines; Ptomaines? 8-With 1 pound of powdered opium in p.c. morphia strength, half pound of 8 p.c., and i pound of 5 p.c., how large a quantity of powder of ro p.c. morphia strength may be made? 9-Give the 4 mposition of the following: Heberdein's Ink, Plul. Rufi, Ward's Paste, Huxham's tincture and Pil Cochia. 10-Relate the principal facts of the botany, pharmacognosy, pharmacy and therapeutics of colchicum.

## BOTAN:

## Exameiners <br> $\left\{\begin{array}{l}\text { Propessor Joc. F. Brargosk, F.C.S. } \\ \text { Proprssor }\end{array}\right.$

To what groups and classes of plants does the Fucus Vesiculosus belong ? Describe its reproductive organs. 2-De. scribe the fruit called "Samara" ; in what family of plants is it found? 3-What kind of plants are included in the Groups: Thallophytes, Bryophytes and Pteridophytes? 4-What do you understand by the "Alternation of Generation"? Illus.
trate by an example taken from the Ferns. 5-Name some forms of inflorescence found among the grasses, and the parts of one cf the flowers in order. 6Describe in botanical terms the following articles of food: figs, onions, peas, lettuces, arrots, asparagus, Postin beans. 7-Give the essemial characters of a yellow lily, yellow flag, and of a buttercup. $S$-Where are the chloroplastuds found and what are their functions? 9-Define the terms: rotate, papillionaceous, dichogamy, monoecious, divecious. ro-How would you distinguish between cellulose, cutin and lignin?

Chemistry second year.

## Examiner. I'ror. C. A. Pristfer.

1-Five grammes of an organic body which is liguid and neutral gives on combustion grams 11.89189189 of $\mathrm{Co}_{2}$, and 6.08 i grams of $\mathrm{H}_{8} \mathrm{O}$. Find the percentage composition (C.H.O.) 2-Find the formula of the above, name the body ; it is the thyl series v. Dens. 2,569 (air $=1$ ). 3-We desire to titrate a sample of vinegar, using normal H.Cl. and semi-normal N.H:s. Into $100 \mathrm{~cm}_{3}$ of the sample is poured $102.4 \mathrm{~cm}_{3}$ of the ammonia. This was found to be excess and $62 \mathrm{~cm}_{3}$ of the $\mathrm{H} . \mathrm{Cl}$ - was required to make the liquid neutral. Find the $\Lambda$ of the vinegar. Pure acetic acid $=\wedge$ 1.064. 4A manufacturer has the above in quantity at 2,201 gallons. For excise purposes this is to be taxed according to the alcohol of $94 \mathrm{p} \cdot \mathrm{c}$. $\wedge .8201$ it represents; make the calculation. Alcohol pure may be taken as $\wedge 7940$. 5-Five grammes of a mixture of $\mathrm{K} \mathrm{NO}_{3}$ and $\mathrm{Na} \mathrm{NO} 3_{3}$ is treated with $\mathrm{H}^{2} \mathrm{SO}_{4}$. The dry sulphates weigh 4,229 grammes. Find the quantly of each nitrate. 6-From roo lbs. of glucose, containing 10 p.c. of water, how much alcohol should be obtained, in fermentation, allowing 7 p.c. for loss. 7Give the chemical formula for Diethy. lamine, Hydrate of triethyl, butylammo. nium, methylethyl propylphosphine. 8 -Show the mode of generation of phenol from its usual hydrocarbon sourcer. Give the formula for Nitrobenzene, a. . show the relation of aniline to ammonia. 9Show the relation of the aldehydes, acids, ethers of the series $\mathrm{C}_{\mathbf{x}} \mathrm{H}_{4}{ }_{5}+{ }_{2} \mathrm{O}$. ro...Explain the terms : Series, homologue, isomeric, metameric, polymeric. The for. mula of ethylglycol diattomic is $\mathrm{C}_{2} \mathrm{H}_{6} \mathrm{O}_{2}$, note the aldehydes and acids obtainable from it. Indicate the three nitricethers from glycerine.
chemistry and physics junior class. Examiner: Prop. Jos. Demrosk.
I-What is the weight of a cubic metre of ether (.720) ? of a minim (Imp) of quicksilver (13.59)? 2-Where and in what state does Iodine occur? How is it obtained, and what are its Chemical and Physical propertics? 3-Given a pipette graduated into tenths of a cubic centimetre, a test tube and some pure water, how would you determine the specific gravity of a weighted button of lead ? 4-Readings by Hearn and Harrison's barometer on March 19th, at noon 29.80; the day before $30.3^{\circ}$; what does this statement mean? $5-\mathrm{Hcw}$ much calcined magnesia will be obtained by heating 1000 grammes of the B.P. Carbonate? 6-How would you make a dialysing apparatus, and how would you use it? 7By what reaction may the Phosphate, oxalate and iodide of sodium be distinguished? 8-IVhen the following objects are viewed through a spectroscope, which kind of spectrum is seen? (a) an incandescent solid, (b) a flask filled with NO gas, $(c)$ a bunsen flame vaporizing a metal or a metallic salt, (d) a solution of eosine or magenta? $g$-In what does the Solar spectrum differ from these, and why? ro-What material would you use for making a galvanic battery composed (a) of one flund (b) of two fluid cells.
materia medica IUNIOR yEAR.
E.ramintr. Prop. J. E. W. Lecours.

1 -Give reasons for rejecting the first portion of the distillate in preparing distilled water, also for ceasing the operation before the still is empty. Give the characters (test) for Aq. Distil. P.B. 2How are the following prepared : Aquaanisi: Aq. Rosaium ? 3-Explain the process for Syr. Farri Iod. P.B. 4-What is observed on mixing Syr. Scilloe and ammonium carbonate? 5-What is meant by titration? Name two preparations of P.B. to which this process is applied. 6 -Name some cases in which hot water is not suitable for making a solution. What is the objection ? 7-Make sug. gestions for the preparation of the following : R. Permangan., Potas gr. iii. Nivide $i$. to xii. pills. 8-Explain the production of ethylie alcohol. How strong are the Sp. V.R. and Sp. Tenuier P.B. ? 9-What is ihe opium strength of the following : Lauc'anum, Vin. Opu, Dover's, arom chalk with ppiu.n, paregoric? 10What is the proporion of quinine in the wine, in the tincture of quinine? Give the strength in Alkaloid of Ext. Nuc Vomic. Tinct. Nux Vomica.

## " Very Satisfactory."

In last month's issuc ilessrs. Lawson \& Jones, label printers, London. Ont., called the attention of the trade to their samples of calendars for next year. They write us tha, the "ad. was very satisfac inry" and say "kindly cominue our ad. $r c$ calendars as it appeared in last issue. Post card applications to see samples are coming in by every mail. Respectfully yours, Lawson © Jones."

As another instance of the value of advertising in the Casabman Drug: gist, we have been shown an order from a cirug firm in Newfoundland for some goods which were only advertised in the Deuggist last month. It pays to advertise in the Canadian Druy.ist.

Decalcifying and Desilicating Sponges.
Dr. E. Rousseau decalcifies sponges which contain much lime salts, such as Letuconia, Lcucandra, Sycon, etc., by first hardening and then imbedding in celloidin. The imbedded pieces (not more than $=\mathrm{Cm}$. in leng(h) are then immersed for from 12 to 24 hours in a mixture of 15-40 parts nitric acid of sp. gr. 1.4, and 100 parts of $S_{5}$ per cent. alcohol, and are then trarsferred to $S_{5}$ per cem. alcohol comaining some precppitated calcium carbonate until every trace of acid is removed. Sections are then made in alcohol of the same strength. For desilication the sponge is treated with fluoric achd after imbedding in celloidin, as in the previous method. One of the small imbedded pieces is then placed in a caoutchouc capsule having a lid and containing at least $5^{\circ}$ C.c. of alcohol. To this is added commercial hydrofluoric acid drop by dropl up to $=0$ or 30 drops, according to the amoun: of silira in the sponge. The desilication takes from one to two days. The pieces are then placed in $S_{5}$ per cent. alcoho! containing some lithium carbonate. As a precaution all the vessels and instruments used must he covered with caoutchouc or paraftin. By this process very good sections may be obtaned of Tethyix, Suberiles, Thenia, Glodia, Reniera, ctc.-Žils. fur Angeal Mikros., Phar. fournal.

Captol.-This is a condensation product of chloral and tamin, a brownish powder, recommended as an antiseptic astringent in the treatment of falling of the hair due to seborrhea.

## Britlsh Columbia Notes.

And now there is a breathing spell. The almost stampede to the much-talkedof Klondike mines during the last three months has subsided for a time and we have now leisure to look back and bar vel at the credulity of mankind. Just what the Canadian Yukon has in store for us it is not yossible at this moment to estimate; in fact reports irom the various mining camps are so variedso contradictory-that at times one even wonders whether the old story of the Cariboo is to be retold with its miserics intensified. If only the truth could be arrived at; if men would not allow their imagination to take pessession of their sounder judgment, what a different complexion would be put upon things! 'l'bat there is gold in the Niondike need not be told here, but it will certainly be got only by much suffering, hard toihng and perhaps after bitter disappointments.

Such a city as Victoria has been, and as Vancouver has been this spring! The usual trade has been entitely pushed to the background, and miners' anants have had first place. The drug store windows presented an appearance that periaps has never been equalled in all their history, even m this mining proviace; nothing but thick chamois vests, medicine chests, pocket microscopes, etc., etc. And there has been quite a big business done, too, although there has been some great awakening as to what is realiy required in that cold, cold country. Saccharin is among one of the arucles that is not popular with intending miners. The majority prefer to take sugar, and at. thougis the extra weight is a serious consideration they generally end by taking it. It has been noticed, 200 , that many have taken small quantities of lime-juice tab. lets instead of citric acid, though this latter article has been so cut down in price by the retailers that it is hardly worth hand. ling. Gencral!y speaking the prospective miner thinks be knows what drugs he want.. He has been told by a friend who is in the drug business, or his family physician has furnished him whth a list, and consequently he comes armed and determined to have what he wants or nothing. We have met many such, and, though we have used some persuasion and probably succeeded in a measure in modifying the list, it has been pitiful to see what a lot of rubbish these men will persist in hanpering themselves with. A latge number will not bother with a
case at all, but take a few useful drugs packed in their outfit. Sensible men! How different to those who bring all the way from london, Eng., a $£ 5$ medicine chest and wam to throw it over the rocks before half way.

The streets of these cities have looked the busiest for years during these past few months. Men of all nations, dressed in every concervable style of arctic ap. parel, have rushed from store to store gelling and comparing prices. And every man has some brilhant scheme (all his own) for making money.

There was one party we met who were tramping the city over pricing hot water bags. For what purpose think you? It was their intention to fill the bags with liquor, and each man of the party would pack one on bis back and another on his chest zender hes clothing, and so avoid the customs' officers. That was the scheme, but whether it was ever carried out we cannot say, nor do we know if the bags were bought.

Mosquito remedies by the thousand. Every old miner knows a sure preventive against the pests, and certain it is that many will lose money in speculating with these recipes

As we said at the beginning "there is a breathing spell now ;" but there is every prospect that what business has been done is nothing to what will follow. But here let it be said that "druggists" have gone up in great numbers to the Klondike. Every party of any size had either an M.D. or a druggist with them, and what these poor fellows will do when they arrive is bejond our ability to say, So far the greater number have been American physicians and druggists; Canadians and English have wisely held back, for there is very little for them in that healthy climate.

Enquiries have reached the city as to the prospects of obtaining situations in the Province, as so many have been reported as leaving or left. The fact is that every position is filled as soon as it is vacated without any difficulty, and there is no better opportunity now for a druggist 10 open out, or a drug clerk to get employment than there was a year ago.

Boron Allaft to Diamond.- rystalline boron, says the Chemical News, is very closely analogous to diamondi.e., crystalline carbon. It has the listre, the high refractive power of the diamond, with which mineral it also competes in hardness.

# "FLY PADS." 

## ARCHDALE WILSON \& CO.

Direct the attention of the Drug Trade to the judgment of Hon. Mr. Justice Rose, restraining The Lyman Brothers and Company (Limited) from imitating "Fly Pads," and give public

## NOTICE

that all parties manufacturing or selling imitations of "Fly Pads" will be proceeded against in the Courts.

## In the High Court of Justice.

between archdale wilson \& COMPANY, Plaintiff,

## —as!一

LYMAN BROTHERS \& COMPANY (Limited), Defendants.
The 23 rd day of June, A.D. 1897.

1. This action having on the 25 th and 26 th days of January, A.D. 1 S $_{97}$, been tried before the Hon. Mr. Justice Rose, and the said the Hon. Mr. Justice Rose on the 23rd day of June, A.D. iS97, having adjudged that the way in which the defendants have put up their fly paper, both as to the form, the envelopes, the packing into boxes and the ormamentation of the boxes, and the advertisements, was calculated to mislead.
2. It is this bay adjudged that the defendants, their servants, agents and workmen, be, and they are hereby, restrained from continuing to pit up and advertise such matter as to mislead.
3. And this Court doth not think fit to make any other order in the matter.
4. And it is further ordered that there be no costs of and incidental to the trial of this action to either party.

Judgment entered 15 th October, 1897 .
S. H. GHENT, Denuty Clerk at Hamilton.



PRICE LIST FOR 1898:


## SPECIAL OFEER

In every case of " SUKE: CATCH" Sticky Fly I'aper, we shall piek so sheets o "SURJ: CATCH" I'oison Fis J'uper Fice (one sheet in each carton). At the usual price, zhis nets the dealer $66{ }_{3}$ grer cent. per case more than the usual profit on Stick; Fly l'aper.
"SURE CATCH" POISON
FLY
PAPER. Hade of Extn Heay دbrerbent Felt Paper. lacked six sections in an envelope.



We are the manufacturers of the above justly celebrated Syrups, so well and facourably known to the trade throughout Canada.
Crushed Fruits and Syrups of every favour you want for your Fountain. Aso "True Fruits" Brand Powdered Fountain Chocolate

The Dest is always the cheapest in the end. Use "True Fruit" and you will be satisfied as well as the customer.
write us for quotations. . . . . .

## J. HUNGERFORD SMITH CO.

Rocinester, N.Y.

## Pure Paris Gireen

: Guaranteed Above the Government Standard. IN BULK AND PACIKETS.

## Pure Carbonate of Copper

For Spraxinor Fruit Ircces, Jitc.

The Fungicide Recommended by the Department of Agriculture.

Packed in Kegs, Pounds, and in 3 oz Packets Two Dozen in a Box.

## Glacial Acetic Acid

VERY FINEST QUALITY. In Demijohns, $80,85.90$ and 95 per cent. In Wood, 80 per cent.

## The Ganada Paint Co. Limited, Montreal



## Diseases of the Stomach.

 COCAINE, PEPSINE, NARCEINEThe ANTIGAGTKALGIOUL: WINChIFK, is the mos: effective remedy known to medical science for Diseases of whe Stomach, Cramps, Indiegejtion, Dyspepsia. Gastralgia, Vomating affer meals, and during I'regnancy:
DDSE: One or suo sables;wonfuls fifteen minutes lefore incals, or whan symproms appear.
Winckler Antigastralgic Pills cocaine, pepsine, narceine
S.me direction as for the WINCKI.FR ANTI. GaSTKAl.Gigli:.
DOSE: One or :wo pilk fifteen minuze before meak. or whet symptome abye ar. This is yeciall; zecurnmead. cd so the preople whu can': stand the prepurations ligitule alcoholised.
WINCKLER, Iharmaciss, Montreuil. Selne. MONTKEA. M. DECARY.
'IORONTO: The Druselsts' Corporation of CAnada. Limiled

[^0]N E would be very glad to supply the Drug Trade and Medical Profession with our Catalogue of Fine

## Pharmaceutical Specialties....

Our Standard Fluid Extraces will compare with products of any other Laboratory on the continent.

THE

## Martin, Bole \& Wynne Co.

Wholesale Druggists. Winnipeg. Man.


Comanas no lead or ohber substaness penisonoms to the shin, but is a delicately pure and delightfully perfumed complexima beantifier. As a todet powder th hav the cigual.
—is rour =habes-

White, Cream, Brunette, Flesh.

 TORONTO, ONT



Pharmacy at Cape Colony.
Syecially contributed for This Canadian Drugaist.
If the standard of a plarmacy is to be taken from a Canadian point of view, then there are but two in Cape Colong. There are drug stores; any amount of them. The proprictors keep them as such; it pays better-I very much question whether elegant pharmacy would pay at all, outside of Cape Town. The man who runs a dirty little shop in some Malay or nigger quarter makes more money out of his "droppels" and other Dutch concoctions than the man running a better class store in a more civilized quarter. Even the Boer and Dutch
shop alone is about $\$ 45^{\circ}$ per month, salaries amounting to very near the same figures. "You must do a large business to meet such an expense," I said to the manager. "Yes, we not only do a large business but a firstelass one. Our turn over in what you call 'holiday goods' is considerable. We carry a large stock of French, English and American perfumes and toilet requisites. Our dispen. sing business is also satisfactory. We fill doctors' prescriptions at a slight advance over recognized rates, our reason for doing this is obvious. If you have a prescription, and you want it filled cheaply, and at l'etersen's, then you must take it to our retail store, which caters
second as to drugs, they certainly ran the Germans very close. Nearly all lines special to United States pharmacy were there to meet American doctors' prescrip. tions, and I was not a little surprised to find a full stock of fruit essences, manufactured by a New England firm.

My next call was on the wholesale store, where I met Mr. Petersen and Mr. Harry, purchasing principal, who undertook to furnish any particulars for African trade that I might require. He showed me over the store, the largest of its kind in Cape Town. The firm does a manufacturing business, and when I visited the establishment pill, capsule and other machinery was running full time.
"Your firm controls the African sale of a number of American lines, I think, such as Chamberhain's, Ayer's, Fellows, and Horlici's preparations. Do you control any Canadian lines, and are you inviting correspondence with other parts of the Empire outside Great Britain ?" I asked.
"We control the sales of the patents you mention, also pain Killer, which, as far as we know, is Canadian. We only see Canada through United States spectacles.
" You can tell the trade of Canada through the pages of Tue Canablan Drugeist that we shall be pleased to hear from them, and we will give our candid opinion on any question they may put.
"We export Aloes, Bu-

Africander prefers a dirty looking shop, strong physic, and plenty of it. "Some. thing to clear my stomach out " is the usuat request and be gets it.

The finest pharmacy in Cape Town is undoubtedly that of Messrs. P. J. Petersen \& Cu. The illustration herewith will give a good idea of the exterior, while the interior is fitted on the latest principle, no expense being spared to make. it the best concern of its kind and to keep it an easy first.

A Scotchman, who has had both British and continental experience, controls the affair, assisted by one London and two Edinburgh men. The rent of the
for that class of trade. If you turn your eycs inside the only other place in this city that can call itself a pharmacy, you will sec quite a mixture of color. This trade is not for us; we do not want it.
"Do you handle any Canadian products?" I next asked.
"Yes, Davis' l'ain Killer and Fellows' Syrup, I think that is about all. We charge $1 / 6$ for the former, $4 /$ and $6 /$ for Fellows' small and large respectively:"

I had no need to question him as to American products. American perfumery, as I have pointed out, took a third place. I am not sure the American did not stand
chu, Ginger, and other Cape products. Any Canadian house likely to buy from us direct we would foster business connections with. We are open to buy and sell."

This concluded the "C.D." man's talk with the manager of an African wholesale store.

The house of Messrs. B. G. Lennon \&Co., Lid., is a gigantic concern, with its head office at Port Elizabeth, and its branches in every town throughout South Africa. From Table Bay to Buluwayo you will find Lennons. They are the first to appear on the scene as townships spring up; they never leave while life exists around.

But they are not friendly to the trade. Lennons is a monopoly. If you offend Lemons they will in all probability open a store opposite your very door, and a more up-todate concern than your own. Lemons sway the retail trade at their own sweet will. Lemnons can ruin small stores, they can dictate their own terms. This institution has a wonderful power. The tariff now in force is practically hostile to patent and proprietary articles. Twenty per cent. is collected in these lines, while prepared foods and all other goods handled by druggists, with a few exceptions, are passed at nine per cent., ad valorem. All medicines destined to the South African Republic are levied on at the rate of five per cent. providing the goods are consigned dia Natal. Natal collects nothing on goods in transit, whereas the Cape charges amount to five per cent., to say nothing of excessive railroad freigits.

## To Entertain Members of A. Ph. A.

The committee of twenty-five appointed a short time ago to make arrangements for the annual convention of the American PharmaceuticalAssociation, which will be held in Baltimore the week beginning August 2gth, held its meeting recently at the rooms of the Merchants' and Manu. facturers' Association.

Henry P. Hynson, who is the local secretary of the association, presided at the meeting, with Dr. D. M. R. Culbreth as secretary. The principal discussion concerned the entertainment features, and after some debate the following rough draft was adopted: Monday, August 29 h -A.M., meeting of the Council; P.M., reception to visiting delegates and ladies. Tuesday, August 30 th-A.MI. and P.M., business mecting of association; afternoon, ladies and visiting nembers shown about town. Wednesday, August 3 tstExcursion to Annapolis Naval Academy and l3ay Ridge by boat, dinner served en route. Thursday, September ist-A.M. and P.M., business session. liriday, September and-A.M. and P.M., business session; afternoon, visiting delegates driven through park; night, trolley ride to Gwynue Oak lark. Saturday, September 3rd-id.di., final business ses. sion. Monday, September jth-Excursions to Gettysburg and Washington.

The discussion of ways and means also occupied considerable tinue, but the deails will be left to the various commit. tees for decision. It was suggested that
the invitation be in the shape of a pamphlet giving interesting facts about Baltimore, and that they be mailed generally to druggists throughout the country. Neither the headquarters nor the hall in which to hold the meetings has as yet been decided upon. Chairman Hynson's committee appointments were as follows:

Invitation-Henry I. Mynson, John IE. Hancock and Dr. D. M. R. Culbreth.

Headquarters, Hotels, Hall, etc.-H. B. Gilpin, Charles E. Dohme, John C. Muth, J. Webb Foster and O. E. Webb.

Reception-A. J. Corning, John F. Hancock, Carl 11. Bryan, W. 1. Sohl and others to be named later.

Souvenir and Badges.-D. M. R. Culbreth, Horace Burrows, Charles Caspari, H. S. Dulaney, C. B. Swindell.

Transportation.-Louis Yakl, C. C. Bartgis and Charles Caspari.

Entertainment.-H. P. Hynson,George 1. Muth, E. O. Street, Charles Caspari, Charies E. Dohme, H. P. Gilpin and O. W. Smith.

Pinance.-Charles E. Dohme, H. A. Elliott, George 1.. Muth, M. S. Kahn and H. C. Wukleman.

Order of ßusiness.--Dr. A. K. L. Dohme, Prof. Willian Simon, J. Fuller lirames, J. H. Hancock and John A. Davis.

## Business Helps. <br> SEEDS.

A large number oi druggists in Canada have found the handling of garden and flower seeds, and in many cases, field seeds a very prontable investment. We know personally of several retail druggists who make each year a very considerable amount of money out of thisline. They are easy to handle, need not necessarily occupy much room, afford a geod margin of profit and the demand for them is geteerally at a time when it is unnecessary to secure any additional help. There are a number of wholesale dealers from whom those who are contemplating this addition to their stock, can procure everything desirable and who will readily give information as to the kinds and quamtities that the begimer should require. This line is of course not a new one by any means, but we believe that there are localities where they are not now kept by druggists, where it would at least pay to look into it and probably order a trial lot for the coming scason.

Another seasonable line is that of mixed paints.
Of this it may also be said that it is not by any means a new line, as a large number of the oldest druggists in Canada have carried them in stock for years, and the fact of their still continuing the lines shows that it is a profitable one and that their example may well be imitated in some sections where this trade has heretofore been monopolized by other dealers. In connection with this, the handling of paint brushes, artists' materials, tube paints, etc., naturally fits in and forms an important part of the stock-in-trade.

## Items of Interest.

United States manufacturers of rubber goods have advanced prices about 20 per cent. owing to the increased cost on crude materials.

The Pharmaceutical Fournal (Eng.) says that nearly 1,000 registered chemists of Great Britain deal to a greater or less extent in photographic materials and appliances.

The Belgium Government offers a prize of $\$$ ic,000 to any person that will discover a chemical that will take the place of phosphorus in the manufacture of matches.

The firm of Williams, Davis, Brooks \& Hinchman Sons, of Detroit, Michigan, whose amalgamation we noted recently, have assumed the name of the Michigan Drug Co.

The Novelty Ilaster Works Co., of Portland, Maine, has been organized with 2 capital of $\$ 10,000$.

Messrs. Simson Bros.\& Co., of Halifax, N.S., have shipped a car load of their limejuice for the Klondike trade.

A prominent departmental store of To. ronto has been endeavoring to place large orders with the wholesale drug houses of this city, but we are pleased to say that in every case they have been refused.

Cisurut Oht in Crourous Paeu. monia.-Sinha (Therap. Gaz.) has treated eighteen cases of croupous pneumonia with great success with oil of cajuput. The oil is given in the form of an emulsion in doses of five minims.

## Send a Post Card to

## LAWSON \& JONES

## LONDON, CANADA

if you want to secure one of the best and cheapest designs for a Calendar for next season. They have the sole agency for Canada of one each of the best English and German calendar manafacturers, and are not selling these goods through a number of sub-agents, but will sell them direct to Canadian merchants. European goods in these lines are known to be much better value than American, with an extra 25 per cent. reduction in tariff on English goods this year.

To secure them you must order early.
The firm's travellers will only have time to cover the whole ground of the Dominion once between now and the time for importing for 1899 season.

A lost Card sent to us at once intimating that you are interested in Calendars
will cost you one cent will not oblige you to buy will oblige our traveller
to show you the first in your town the finest line of Calendar Samples ever shown on the Canadian market.

Applications to see samples will be iecorded in order of receiving them.

## LAWSON \& JONES, <br> 

It is a mistaken idea to assume that this truly great preparation of condensed food is useful only to Explorers, Mining Prospectors, and Suiveyors, who require their food supplies put up in small bulk. Many a time it has in the sick room stood a rampart of defence
BETWEEN THE PATIENT and DEATH
And many a convalescent has been by its strength. giving and invigorating properties
HURRIED FORWARD TO RUGGED HEALTH.
Its use as a food brings health to the sick, strength to the convalescent, vigour to the healthy, and will furnish powers of

## ENDURANCE TO THE ATHLETE

 or to any person requiring to undertake
## Great MENTAL or PHYSICALSTRAIN

The medical profession without exception recommend it in their practice.

## Prepared by

## BOVRIL, LIMITED

27 St. Peter 8t., Montreat,
and London, England.

NOVELTY, CONVENIENGE AND PROFIT


THE NEW PACKAGE'FOR RETAILING

## Upion's Friable Quinine Pills

 in a separate compartment.
 the vest procket or lady's purse-
giving a handy means for carrying quinine pills.

$$
\text { The Profer is } 300 \text { ber } \begin{gathered}
\text { cent., when } \\
\text { the pachige }
\end{gathered}
$$

s getailed for 15 cents. The superior puality of the pills and their unique quality of friability incure their ready sale.

Put up in attractive counter display containers holding one gross of hoxes.
Order a Gross or $1 / 4$ Gross from your jobber. They cost no more than the "solid" kind.

## GILMOUR BROS. \& CO., MONTREAL

Sole agents for Upjohn's Pilk

## English Seamless Nipples

No. 1-Bes quality, per gross.
No. 2-Best quality, per gross. . . . . . .. . . ..... . . . $\$ 1$..
No. 3-Best quality, per gross ... .. .. . .. . ... ... .. . . . . . . .
In Gross Lors Assoktri...
th: Gross Lors Assoktril..



No. 1-.McKenzie l.eader Water.Oil, i Tip, dozen....


요
(Quotations on application for quantities).
N.h.- Brisich goods are now enjoying the Preferentia! Tarif.

## The J.Stievens \& SSon Con, Limited <br> 145 Wellington st. W., Toronto



# LYMAN'S CHLOROFORM ccespecific Gravity 1.49 UU 

Recommended by Rancet and Canadian Prartitaner, used exclusively in General lospitals in Brantford and Kingston, anc! recommended in preference to any other make ly all leading physicians who have tested it.
PRICE to Druggists, $\$ 1.23$ per lb. botle. . . . . . PRICE to Doctors, \$s.75 per lb, bottle.


| ARRIVALS: |  |  |
| :---: | :---: | :---: |
|  | Frxas |  |
| Phenalgin, Powder and Tablets | $\delta$ | D. C. Curative OIntment |
| Stearine | ) | Pile Remedy |
| Swamp-Root Kidney Cure | 8 | Invalid's Malt Extract |
| Harte's Celery-Iron Pllls | 8 | McBride's Sarsaparilla |
| Liver Life Pearls | \% | Glycerole of Pepsin, in Bulk |
| Kidney Cure Pellets | \% | Floated Pumice Stone, fine for mak- |
| Fever and Malarla Pills | $\delta$ | ing Dentifrice |

IETEHTALL Ax OO'Es Adjustable Eye Protector

Used by Wheelmen, Street Car Men, Navigators, etc. -in fact all who are exposed to the indensency of the weather. l'ositively the only protector made that fits in a cup shape around the eye and is Dust l'roof. If you cannot see without \&lasses, you can wear it over them

- Price \$ $\$ 1.80$ per dozen


## The Lyman Brothers \& Co., Limited, Toronto

Unsalable
Mk. Devgoist: Sciad us your lis of uncilable p.atent medtuacs. We exchange and thas. A sure way of getting

Bntaitasour munes out of dead stock.
 Druxgos 16 Make:St. . Hamilion

## To the Drug Trade

## HOFBRÄU.

"A malt tonic of surpassins value in is action on the nerves.
" Almisably adap:ed so the wants of
ladics beforc and ifter confinement."
" Ilighly nutritinus, and its wee will be found aers valisfaciory il the reasing of sirong, licalily chiliten.
"Ahead of porter or .tronzalc, whether mported or domentic "
ar the standard of perfection." profestion
Reinhardt \& Go.,
Lager Brewors, TORONTO.
R. H. BUTT

Fire and Accident Insurance Agent.
26 WELLINGTON ST. EAST. 'PHONE 1054

TORONTO.

## Druggists <br> <br> \section*{YOU MAKE A BIG MISTAKE IF YOU DO NOT KEEP IN <br> <br> \section*{YOU MAKE A BIG MISTAKE IF YOU DO NOT KEEP IN <br> <br> <br> YOU MAKE A BIG MISTAKE IF YOU DO NOT KEEP IN <br> <br> <br> YOU MAKE A BIG MISTAKE IF YOU DO NOT KEEP IN STOCK NATURES OWN REM. STOCK NATURES OWN REM. EDY EDY <br> <br> <br> $A H=W A=G O$

} <br> <br> <br> $A H=W A=G O$}}The King of Blood Purifiers and Positive Cure for

RHEUIIATISM, DYSPEPSIA, AND ALL KIDNEY TROUBLES.

All.WAgO is the Best Selling Medicine on the Market.

A Medicine that sells on its merits.
A Medicine that is guaranteed, and if, after usin: the entire contents, your customer is not satisticd, we cheerfully refund the money.
AH-WA-GO WILI. BUILD UP YOUR TRADE AND HRING YOU NEW CUSTOMERS.

Write us for looklets, Samples, and Prices en $\mathrm{A} I \mathrm{l} \cdot \mathrm{W} A \cdot \mathrm{GO}$, and our other Remedies.

All lea, ing Wholecaic Intugisists kef; it: if your jobfrer can not or will not act it for yoll please address as lielow:
The F. E. KARN C0. 128 Wellington St. Toronto, Canada.
United States 0fice: 19 Court St., Buffalo, X.Y.


Place your
Orders Early
For-

> Bluestone
> Paris Green
> London Purple
> Hellebore
> Carbonate Copper
> Insect Powder
> etc. etc.

Kerry, Watson \& Co. LONDON, ONT.


## Trade Notes

E. Beattie is opening a new drug store at Crantrook, B.C.
Field, of Milton, Ont., has opened a new drug store, at Golden, B.C.
W. J. Fleming, druggist, Prince Albert, Saskatchewan, is advertising to sell out.
H. D. leters has purchased the drug business of N. R. McKenzie, Newcastle, N.B.

The stock of W . Ruckler, druggist, Thamesville, Ont., was destroyed by fire March 28th.
A. D. Stevenson has purchased the drug stock of the estate of $\mathrm{Wm} . \mathrm{H}$. Clark, Milltown, N.B.
The Egyptian Rheumatic Oil Co., Limited, Halifax, N.S.; have applied for letters of incorporation.
Reid Bros. is the title of the drug firm at Alberton, P.E.L., formerly carried on by
Win. Skinner, senior member of the firm of Henry Skinner \& Co., druggists, Kingston, Ont., died March igth.

A fire broke out in the laboratory of Simson Bros. \& Co.'s wholeale drug warehouse, Halifax, N.S., April 1st, doing considerable damage.
w. J. Bauld, comer Dundas street and Ossington ave., Toronto, has sold his drug business to J. H. Hallett, who will carry it on as a branch store.

The drug business of W, E. McCartney, Kamloops, B.C., is now known as the Kamloops Drug Co., Limited, W. E. McCartney being manager.

Reid \& Coly are opening 2 drug and fancy goods business at Wardner, B.C. The drug department will be under the management of W. F. Reid.

C: H. Couen, 49x Parliament street, Toronto, has purchased the drug business of E . G. West, 568 Jarvis street, and will conduct it as a branch store.
J. H. McCollam, Milton, Ont., has sold his drug business to Higginbotham \& Co., who will conduct it as a branch store under the name of Wickson $\mathcal{E}$ Co.

Geo. Marshall has removed this drug business to the corner opposite the one previously occupied by him. His address is now 3 ro Queen street east, Toronto.
S. T. White has purchased the drug stock of J. H. Dennis, Oakville, Ont.;and
added it to his own, and has moved into the premises formerly occupied by Mr. Deunis.
Mr. Frank C. Simson, wholesale druggist, of Halifax, N.S., paid us a visit recently. He speaks of trade in the Eastern provinces as being "very good," (and fishing equally excellent.)

Messrs. Evans \& Sous, Limited, have decided to revert to their old system of having two travellers in the city of 'Toronto. Owing to increase of business they find that one traveller is insufficient for their requirements.

## Montreal Notes.

The drug business in Montreal is flat, and the general health of the city having been remarkably good all through the winter, physicians have not written as many prescriptions as usual. Some hopes are entertained of a revival after the ist May. One thing is certain there is an enormous number of houses as yet unrented in this city.
. Some pretty large orders for drugs have recently been filled in Montreal for British Columbia. They say the drug stores, and, in fact, all other retail stores are doing remarkably well in that enterprising province owing to the large influx of strangers on the way to the gold fields.
The Klondike fever does not appear to havestruck Montreal pharmacistsvery hard. One drug clerk, out of employment I believe, got as far as Edmonton where he got stuck owing to the leauer of the party, under whose banner he had enlisted, not turning up at the last moment.

Owing to the comparatively low price of camphor this spring, the druggists have reduced the price to bocts. per pound in one pound lots.
Mr. Muir,secretary of the Pharmaceutical Association, has issued a circular, stating that the Council has decided, under the power given it by article 4029 of the Pharmacy Act, to raise the annual subscription for the year commencing May ist, 1898, to licentiates, and physicians registered as pharmacists, $\$ 10.00$; certified clerks, $\$ 5.00$, apprentices, $\$ 2.00$.

## Sale of Liquors by Druggists.

A number of deputations recently waited on the committee appointed by the Manitoba Legislature to formulate
amendments to the License Act of that province. Amongst others was one from the Pharmaceutical Association, who asked that druggists be permitted to sell liquor without a doctor's certificate. A number of cases of inardships were cited as having occurred under the present regulations, and Dr. McArthur, who is a well-known temperance worker, expressed the opinion that the application of the association would not meet with opposition from the temperance organizations, providing reasonable restrictions were provided.

## Meetings Held.

The annual meeting of the Lyman Bros. \& Co., Limited, was held in Toronto March $24^{\text {th }}$, Mr. H. H. Lyman in the clair.
The following directors were re-elected for the ensuing year:-

President, H. H. Lyman, Montreal.
Vice-president, F. S. Lyman, Q.C., Montreal.
Managing director, C. McD. Hay, Toronto.

Secretary-treasurer J. Watts, Toronto.
The statement presented showed a very satisfactory business for the past year.

A meeting of the Provisional directors of the "Druggists' Corporation of Canada, Limited," was held in their office, Toronto, on Monday, April $4^{\text {th, }}$ at which the following officers were elected:
President, J. E. D'Avignon.
Vice-president and manager, Wm . J. Dyas.
Secretary-treasurer, J. C. Hedley.
It was decided to call the first meeting of the shareholders for Wednesday, May 4th, to be held at the office of the Company in Toronto.

A "Stratiord druggist" has forwarded us a clipping from a local paper, being an advertisement of the Barnsdale Trading Company, in which not only are prominent patent medicines advertised at "cut rate" prices, but a cut representing the box of a largely advertised pill is given. We hope the manufacturers of this article will take prompt measures to ascertain by whose authority this cut was made and furnished to these people, as the Strattord druggists and others in the wes: are "up in arms" at the audacity of someone.

## Pharmacy in England.

## Erasmic Soap-Effective Window Displays-Formaldehyde as a Proprietary Disinfectant-New Book of Formulx-Publication of the British Pharmacopœia 1898-Influenza on the Wane.

(From our oun Correspondent

During a recent visit to one of the south coast winter resorts I noticed that many of the chemsts have gone in for window displays of Crossfield's Erasmic Soap, which has lately been extensively pushed by the proprietors. The soap is wrapped in a violet-colored paper and boxed in an effective dark olivegreen box. From a sont of family resemblance in the displays I should imagine that the accompaniments are supplied fiee with a fair order of soap. These consist of sev. eral yards of gellow silk for drapang the sides and back of window, bunches of artificial violets and leaves, etc. The contrast is very attractie and invariably causes attention-the boxes of soap and piles of tablets being displayed to the best advantage. The drawback appeared to me chiefly in the fact that so many were doing the same thing; bur the idea is one that I have repeatedly suggested in this jourmal. There is no reason why a druggist should not du the same surt of thing at periodical intervals with his own specialties, where the profits would be larger and his neighbor would not be likely to clash. For instance, an effective display of lavender water, lavender smellmg.salts, lavender-scented cloudy ammonia, etc., might be followed by har preparations. These should have bright labels, such as red and gold, and an elegant background of dark green plush. A complete series would include hair-wash, harr-restorer or dye, bay rum, brilliantine, liquid shampoo, pomades, etc. Thi, display might be followed by one of a more medicinal nature-such as cod liver oil, cod liver oil emulsion, extract of malt, with ced liver oll and other smmar house. hold remedies. A friend of mune in the colones is doing this, and at the same time each weck he has an advertusement in the proncipal local papers drawing attention io the leading speciatty which is veing exhibited that week. This is illustrated by an electro, something after the style used by the Cuticura propnetors, which is not ehahorate but understood at a glance.

I recently referred to the progress that formaldehyde is making as a disinfecting agent, and it has since occurred to me
that druggists might do well to introduce this article under a fancy name as a general disinfectant. For this purpose the 40 per cent. solution, which is usually sold wholesale, should be diluted in the proportion of half an ounce of formaldehyde in a pint of water. As the public do not like disinfectants to be odorless, it would be a good plan to add a few drops of terebene or cucalyptus oil, so that the diluted liquid has a slight odor. The general directions might include its use as a gargle, diluted with an equal volume of water, in catarrh and sore throat. For ringworm, it should be applied on lint and remain in contact with the affected part for ten minutes, two or three times a day. As a disinfectant and deodorant the liquid should be sprayed into the room once or twice a day in severe infectious cases, and a sheet saturated with the solution be suspended over the docr. It is also advisable to place some of the sulution in a food-warming apparatus, heated by a night light, placed in the centre of the room, so that the solution gently evaporates without boiling, and a steady current of formaldehyde is disengaged. In mild cases the solution could be allowed to spontaneously evaporate from one or two soup plates exposed in the room. About a tablespoonful of this liquid should be placed in the utensils in order to obtain perfect sterilization of the excretions. The disinfectant should receive a fancy name, and the utmost made of its special properties of not staining and harmless nature.

One of our trade journals, The Chemist and Drugsist, is bringing out a book of formula, something after the style of that published several years ago by The British and Colonial Druggist. It is being edited by a member of the staff, P. McEwan, F.C.S., whose name is a guarantee of careful revision, and that practical com mon-sense will be brought to bear upenthe mass of material at his disposal. But the fact remains that these published formula are, as a rule, of shockingly inferior merit. Too often they are devised by people who never think of examining the product critically and comparing it with what is already known. As an instance, the
journal in question not long ago published a formula for aromatic toilet vinegar that consisted merely of dilute acetic acid and a few common essential oils dissolved in an altogether inadequate proportion of spirit. The author proliably concocted this on the spur of the moment, and certainly never could have tried it, as such wretched stuff would not pass muster anywhere. Many of these socalled new formula are only arm-chair amended editions of formula published years ago in various journals or books of receipts. The superior enlightenment of modern knowledge is shown by substituting citral for oil of lemon in a recipe for essence of lemon or heliotropia for extract heliotrope in a perfume. Those who have been called upon for preparations and have looked up all the published formule generally discover that nothing quite satisfactory has appeared, and that further experimenting is required to elaborate a really first-rate article. Naturally when this is obtained the result is not communicated broad. cast.

The death of Sir Richard Quain, president of the General Medical Council, and, therefore, head of the Plarmacopocia Committee, will not delay the production of that long-expected volume. Messrs. Spottiswoode \& Co., the Queen's printers, have received the contract for publishing the $1898 \mathrm{l3} .1$., but do not expect that it will be ready until May or June. The volume will be some 50 pages larger than its predecessors in spite of the careful pruning process, and the extra cost of production is to be met by increased price. This has been fixed at $\$ 2.50$. In spite of all the congratulatory remarks that have recently been uttered by the members of the medical committee, that did not do the work, those who appear to take most interest in the new volume are students preparing for the pharmaceutical qualification. The wholesale houses are also apparently interested because the alteration in many of the forms will require for some time duplicate preparations being kept-those of 1885 and 1898 13.P. respectively. But I am assured by one of the members of the committee that this has been borne in mind, and that very little incouvenience is likely to result.

The influenza fiend has been busy, but nothing like a pamic or even an epidemic has occurred A good many cases are improperly attributed to influenza, and an ordinary bronchial catarrh is elevated into the more popular disease at the moment. Still the medical profession has been busy, and although many cases occur the treatment is now so clearly recoguized that unless unfavorable symptoms of pneumonia or other complications ensuc, the progress is usually quite satisfactory.

## PILLS

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E have been manufacturing pills for over a quarter of a century, and duing that time have kept up with all the advancements in this branch of pharmacy. Our processes of manufacturing are of the latest, thereby insuring pills which, in accuracy of division and superiority of finish, cannot be excelled. As to solubility, we will cheerfully submit our products for comparison with those of any manufacturer, believing we have attained perlection of product in this respect. Friability is no criterion whatsoever by which to judge solubility, for the most soluble substances known, such as rock candy, caustic potash and soda, most kinds of salts (organic and inorganic) in crystaline or compressed form, and even ice, can be easily driven into or through a board, yet no one questions the ready solubility of these substances in water, or in the stomach when they are properly prepared in medicinal doses. We do not claim our pills to be friable, and have never claimed them to be more soluble than friable pills, yet a simple test in water, artificial gastric or artficial intestunal juice, will prove their solubility to be even merter than friable pills.

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We invite inquiries from druggists who use regular stock pills in large quantities, for on such we make specially low figures. Our regular discount is 50 per cent. from our list to one and all druggists who buy assorted lots of pills. We list and stock a complete line of sugar and gelatine-coated pills, and can prepate specially in large lots any of our formula with different coating and in different shapes.

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## Emergeneles: How to Troat Them. ${ }^{-}$

Hy W, II. Ginkrisos, Pearl, ill.
My subject is " Bmergencies: How to Treat Them," and at a first glance the pharmacist may well ask, "What has that to do with pharmacy?" And, on the other hand, the physician who has not comprehended in its fulness the great purpose and object of his calling may throw up his hands in horror at the thought of the pharmacist rendering aid to the injured and thus apparently depriving har of a portion of his bread and butter. But upon a monent's reflection the pharmacist will readily see that while a knowledge of "emergencies and how to trea: them" may not throw any great light upon the scientific side of pharmacy, it may nevertheless have a great deal to do with the peace of mind of the pharmacist and with his standing in the community, and hence bear directly on his pocke•book, either for "weal or woe." In other words, it has :o do with the practical rather than with the scientific side of our profession.
The simerican pharmacist is universally recognized as a public servant, and in order to maintain the dignity of his calling he must be ever reads to meet intelligently all emergencies, from the selling of a postage stamp at midnight to the administration of the proper antidote for hydrocyanic acid poisuning, But aside from all speculation, it is a fact that the pharmacist is the man who is often called upon suddenly, and when he least expects $\mathrm{i} \hat{\mathrm{i}}$, to come to the relief of some one who has met with some grave injury, either from accident or design; and if he is not informed to a reasonable extent, he is likely to make a blunder that will cost him his reputation and the unfortunate victim his life. Furthermore, there is absolutely no good reason why the pharmacist should bear having his hands tied with the claims of ignorance and allow his fellow-man to perish or valuable time to be lost, simply because a physician who has not the proper conception of his calling may think of objecting to the pharmacist rendeting aid to his patient in cases of emergency.

Now, since the pharmacist is in point of fact the man who is most often called upon to render aid while the physician is being summoned, it becomes important that he should be fairly conversant with at least the principles underlying the proper treatment of emergencies that are - Kead before she Illinois Pharmaceutical Association.
must often mes with. The field of emergencies is a broad one, and it is beyond the province of this paper to comment on all of them or even to mention them. I shall, therefore, refer briefly to a few only of the more common ones, such for instance as the arrest of hemurrhage of tranmatic ongin. I consider this first, because the pharmacist is not infrequently called upon to render aid in emergencies of this nature, and if he will but act promptly and with judgment; he can not only save the life of the patient but he can also render the services of a physician more valuable in the after treatment of the wound, while at the same time bringing credit and satisfaction to him. self.

## blambing wounds.

Suppose a man is brought to your door with a frightful wound of the forearm which is bleeding profusely. What will you do? the man may bleed to death before a physician can be summoned; prompt action is necessary. The pharmacist need not stop to reflect as to what artery has bee:a severed or as to whether the wound is incised, lacerated or punctured. These are all in order for the physician, but to the pharmacist the great indication is to arrest the bleeding until the physician arrives. And he must not be carried away by the confusion of the moment, else be will be seen grasping a bottle of Monsell's solution, glycerite of tannin or some other styptic, and very diligently pouring it into the woundwhich would be a great mistake, as styptics are only weful in parenchymatous bleeding (i. c., capillary oocing) and not in arterial or venous hemorrhage; and even in parenchymatous bleeding they are not to be used if other means are at hand for controlling it. On the contrary, the pharmacist who is properly informed and keeps his presence of mind will prouptly tie an Esmarch elastic bandage around the arm just ahove the elbow, or if no lismarch is at hand, he must simply use his common sense and make use of a piece of rubber tubing that he may have about his percolators, or if he has none of this he can run to the show case and take the rubber tubing off a fountain syringe and tie it tightly around the arm. The point to be remembered is that an elastic bandage of any kind is more efficient in controlling hemorrhages than one that is non-clastic, and if the pharmacist remembers this he can usually find means of applying it, even is he be forced to use his own juspenders.

After the bleeding is somewhat under control, the pharmacist should at once turn his attentios to the wound itself. And right here is where he can make nimself of immense value or of equally great detriment, depending on whether or not he understands the principles underlying modem antiseptic surgery. It the pharmacist protects the wound properly, he will not only not be supplanting the physician, but, on the contrary, he will bemaking the physician's work more valuable to the patient and more pleasant to the physician bimself.

## antisemtic biessing.

The pharmacist is not the judge as to whether the wound is or is not already infected, but it is duty to make an effort to prevent any further opportunitics of infection after it comes under his care, and to this end he should simply cover the wound with sterilized gauze, if at his command, and if not, then he can quickly make an antiseptic solution of bichloride of mercury ( 1 to 2,000 or 1 to 3,000 ), dip some clean absorbent cotton into it and cover the wound, allowing it to remain until the physicianarives. Atall events, he must make no attempt to close the wound, especially with ordinary adhesive plaster, as this is beyond his sphere and likely to result in damage to the paticnt.
And right here I want to condemn in no uncertain language the practice of covering a wound, be it ever so small, with adhesive plaster that has been moistened with the saliva of either the patient or the pharmacist. This may seem a trifling matter, but is a common practice among the laity, and even among persons who should certainly have better judgment and training. The practice is not only a filthy one, but is also the cause of no considerable amount of suffering, as the saliva is especially rich in pathogenic germs.

The treatment that I have described for a wound in the forearm may be applied with proper variation to wounds of any part of either extremity. But suppose the wound is in the neck, or some other locality where pressure cannot be utilized in the manner mentioned, then what shall we do? In answer it may be said that the underlying principle is the same. It is pressure that we want, and we may get it by packing the wound thoroughly with sterilized gauze or with clean absorvent cotton wet in an antiseptic solution, or if neither is available, then the pharmacist may place his thumbs in the wound, and thus close the bleeding vessels; however, this is a dangerous
practice, and should not be resorted to when other means are at hand.
The pharmacist should cleanse his hands before making any attempt at dres. sing the wound, and this may be hastily done by washing them with soap and water and then dipping them in strong alcohol. These means are usually at hand and can be utilized quickly, and while they are by no means thorough, they are perhaps all that the pharmacist can make use of at the moment, unless he chances tu have other antuseptic sulutions available.

## INSOLATION, OR SUNSTROKE.

I shall now refer to insolation, or "sunstroke," as it is a sulbject that often mterests the city pharmacists, and even oc. casionally the pharmacists of the country village as well. If a man is carned mo your store prostrated by the heat, you can render valuable service both to the individual and to the physician by removing the clothing from the shoulders and r.lest of the unfortunate victim ; in iact, strip, him to the waist, place hum in a perfectly recumbent position, and have sone one pour cold water from a height onto his neck and back, while you hastily procure some ice from your soda foumtun or elsewhere. Break the ice into small pieces, fill an ice-bag and apply it to the man's head. You may even add salt to it, thus making a freezing misture ; but it is of the utmost importance that such an application should not be allowed to remain in one position longer than a few moments, for in such an event the scalp would be frozen and devitalized, and serious injury result. If you have no rubber ice-bag, you can use an empty cork sack or a towel or such other material as may be at hand. The patient should be kept perfectly quiet until the physician arrives, and some stimulant may be administered, such as ether or ammonium ca-bonate.

## suncore, or fanting.

Another condition somewhat similar to the previous one is syncope from fright or injury or even possibly from joy, and the circumstances surrounding such errergencies are peculiarly calculated to the cause of the pharmacist "losing his head," so to speak, as they usually occur under conditions of great excitement.

When this accident occurs the viction in the majority of cases is a young lady, and she is, as a rule, promply surrounded by a number of anxious friends or curious spectators or both, and the very first
impulse is to "lift her up;" but if the thoughtful pharmacist is present he will promptly and strenuously object to this proceeding, and .will insist on keep. ing her in a perlectly recumbent position, and will at the same time loosen all clothing about the neek, chest and waist, and then sprinkle cold water over the face, neck and chest. The water should be sprinkled with considerable force, or poured from a heught if the syncope is complete, but if only partial, then these proceedings mas be unnecessary, and the administration of stimulating inhalations may suftice.

The most convenient inhalations are ammonia or amyl nitrate, but these are of little avail if the syncope is complete, as in that case the respratory movements are almost absent. While these steps are being taken the anxious friends and overcurious onlookers should be urged to stand back and thus give the patient air, and in the majorty of cases a few moments only will suftice to enable you to note evidences of recovery ; the physician will arrive and the pharmacist's duty will have ended.

## buris .ind scal.ds.

In conclusion I shall refer briefly to the treatment of buns and scalds. True, there is but little for the pharmacist to do in this direction, but occasionally he is called upon for assistance in such accidents, and he should at least be aware of the fact that he can do but litte, and thus avoid embarrassmem. However, he may contribute quite considerably to the comfort of the victim by promptly adopting measures to exclude the air, and for this purpose a number of remedies have been suggested, but the time-honored carron oil nossesses the great advantage of being nearly alwass at hand and is probably as efficacious as any of the newer remedies. Still we may add about one per cent. of thymol to the carron oil, and thus add to its antiseptic propcrtues.

We should thoroughly saturate a piece of clean gauze or absorbent cotton with this preparation and cover the afferted surface, and if the burn is not quite extensive, this will suffice to bring a great deal of relief to the sufferer. If, however, the burn covers a large surface, it may be necessary to give an anodyne in addition to the foregoing treatment, and perhaps the best one is norphine, either liypodermically or internally. This will give relief, and since the object of the
pharmacist's efforts is to give temporary relief, he will have accomplished it and can await the arrival of the physician.

I have now reierred to a few of the emergencies that are most frequently encountered, and I wish to emphasize the fact that what I have said is intended for the prarmacist and not the physician, and while it covers, as I believe, fairly well the duty of the pharraacist in the cases cited, it would by no means cover the duty of a physician in the same cases. The pharmacist occupies a middleground between the physician and the layman, and while he is in no way competent to supplant the physician, and, indeed, has no inclination to do so, still, the public at large rightfully looks up to the pharmacist as a man of superior intellect and judg. ment, and expects him to be more competent to act in cases of emergency than is the ordinary mar..

As I said in the beginning, time will not permit me to more than hint at the subject of emergencies in this paper, but I would suggest that a more extended study of the subject might be interesting to the pharmacist and would widen the sphere of his usefulness and influ. ence.

## BURNS AND SCAIDS.

By Dr. A. Rixa, New York.
On the fourth of July I had a serious case of burning in a boy of 12 years, caused by the premature explosion of some large firecrackers. The whole face and also the eyeballs were burned. I used the following prescription :
is Cocaine......................... $o$ is.
Sig.-Apply locally on absorbent cotton.

For the burns of the eycballs:

Dissolve alkaloids in the oleic acid by use of water bath and add to the olive oil, previously warmed.

As soon as the acute and painful stage was past I prescribed:
B. Aristol... 5 ij
Sig.-Dust the parts.-Medical Summary:

It is estimated that over $\$ 32,000,000$ worth of patent medicines are sold each year in the United States.
The number of chemists and druggists in Great Britain, as shown by the register at the end of 1897 , was 15,215 .
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## Formaldehyde.

Ify Grortis Row.
Formaldehyde, formic aldehyde, or formalin, was discovered by Hofman in 1869. In the formation of starches and sugars from the carbon dioxide which the plant absorbs from the air, it is believed that formic aldehyde is formed as an intermediate product. Chemically, it is prepared by the limited oxidation of methy! alcohol, or when calcium formate is subjected to dry distillation. The gradual oxidation of methyl alcohol occurs when a stream of air saturated with the vapor of methyl alcohol is drawn through a tube containing a copper spiral or platinized asbestos.

Formaldehyde is a powerfnl germicide, due to its combination with gelatinous and albuminoidal substances; in consequence of its chemical reaction with the various volatile products of decomposition it is a decided deodorant. Its great antiseptic properties were discovered by Berlitz and Trillat, who found that an addition of I in 50,000 was sufficient to prevent the development of bacteria in meat-juice. Leow recognized it as a powerful poison to vegetable protoplasm. Its non-poisonous character makes it ex. tremely useful in preserving certain preparations, and in pharmacies, especially dispensaries where there is much dispens. ing done, it can be used in some cases with good results. This is particularly so where large quantities of fermentable mixtures have to be kept readymade, and often enough to last some days or even weeks.

In hospital dispensaries and establisiments where a large atnount of dispensing bas to be done in a very short time, it is necessary to prepare beforehand many preparations which, in some cases, must last a considerable time, and, as may be expected, a preservative of some kind must be used, such as alcohol, salicylic acid, chloroform, and now formaldehyde. The addition of alcohol is costly, and, unless a large quantity be added, the preparation becomes sour, owing to the action of micro-organisms and natural ferments. Salicylic acid is objectionable in many ways. Camphor and chloroform have a taste and smell which many cannot tolerate, so there still remains to be found a preservativethat can be used without having any particularly objectionable points. I have for a considerable time used chloroform, and, experimentally; formalin, in

[^2]all cases where my experience has taught me that a preservative must be used, such as in making fresh infusions and decoctions sufficient to last perhaps weeks, in the solutions of the alkaloids; mixtures which, if dispensed as written, would keep only a few days, whereas they are often expected to remain good for two or four weeks; mixtures which contain organic substances in which bacteria grows with extraordinary rapidity. Those containing ergot are very common in my case; these at times assume the appearance of muc:lage in a few hours, and here something must be done. Almond-mixture is one which ferments after a few days, and patients often have enough to last them two weeks, and nothing keeps it so well as formalin-1 in 10,000 [of the 40 per cent. solution] will keep it sweet for weeks and cause no inconvenience to the patien!. Milk is another fluid which gives trouble in hospitals, it often goes bad during one night ; but as small a quantity as 1 in 50,000 will keep it for that time and give no unpleasant symptoms to the patients. Milk required for future analysis can be lept sweet for some weeks b; adding four or five drops to each 100 c.c. It is stated to have the curious effect of slightly increasing the total solids in some cases, due probably to the conversion of milk-sugar into cyalactose.

For infusions and decoctions 1 in 1,000 to 1 in 3,000 answers best; but, taking into consideration the powerful effect formalin has on animal tissue, and how intensely irritating is even a weak solution, it is doubtful if the former strength can be adopted until its action on the human economy is better understood. When it is used for concentrated preparations the case is somewhat different, and no harm can possibly result from its use. It has the advantage of having little taste or smell in such small quantities, and thus differs from chloroform. For infusion, which it is an advantage to keep one or two weeks, it is decidedly. useful; but when tequired to be kept longer nothing answers so well as chloro. form, 1 in 500 or 1 in 1,000 , such as for gentian, calumba, quassia, either single or four times the strength of the Pharmacopaia; these, when diluted, have little of the smell or taste of chloroform. When patients are put on digitalis, jaborandi, and a few others, and only small quantities of stock need be made, formalin answers vell. Its power to destroy the bacteria of fermentation and putrefaction is its strongest point, and is thus of
great service in pharmacy for preparations which have a tendency to ferment. In breweries it has been found useful on account of its arresting secondary fermentation, although not interfering with the resulting quantity of alcohol produced; it also reduces the acidity, and thus enables the process to be conducted at a lower temperature. It cannot be said it is systematically adopted in this country for this purpose, but it has been used with marked success on the Conunent. Antiseptic agents were used to preserve beer and other fermented fluids from the ravages of aerial ferments long before Pasteur explained the true cause of fermentations, and were protected under patents; hydrofluoric acid was one.

In the manufacture of mineral waters of 3 sweet nature it is impossible to exclude the germs of putrefaction from the materials and apparatus; consequently much turbidity is the result, and great is the loss to the maker. Most of the preservatives in common use have therapeu. tic activity or corrosive action on the metals. It is claimed that formalin will do away with these objectionable points, and $I$ in 20,000 is considered sufficiently strong for the purpose. For washing the utensils 1 in 1,000 should is used ; the mlxture can be used over and over again, as long as it retains its characteristic odor.

Formalin has not been much used in medicine. As a spray and palnt it has been found useful in diphtheria- $1 / 2$ to 1 per cent. as a spray and $r$ in 500 as a paint. Glycerine agar inoculated with the bacillus and sprayed with formalin gave no growths. As an inhalation diluted with carbonic-acid gas it has been found beneficial for consumptives; if used too strong it may bring on hemorrhage, etc. In ophithalmic surgery a 1 -in2,000 solution has been found useful for injury to the cornca and various forms of ulceration. Applied three times at intervals of two days it has been found useful in ingworm. In dentistry its weak solution is antiseptic and astringent.

It is excellent for keeping urine required for future analysis-it will keep it sweet for weeks. For preserving vegetable products a 1 to $=$ per cent. solution has been found best; little of the fresh appearance is lost, and the odors are quite distinguishable after many months. Gelatine exposed to the vapor of the fo per cent. solution for twenty-four hours becomes like leather, and insoluble in boil-
ing water: it is thus useful for the preservation of the cultivations of bacteria. In nutrient gelatine for biological specimens it must be used early in those cases where the bacteria liquefies the gelatine. 11 is us?d extensively for hardening tissue, and saves much time ; it does not cause shrinkage of the cells. Tissue $:=$ $10 \frac{3 / 4}{}$ inch thick hardens in twenty-four hours in 40 per cent. solution; for loose tissue it is best to use a 5 to to per cent. solution. A saving of time may also be effected by making the mucilage with formalin-water, and placing the specimen in direct. For preserving specimens a 2 per cent. solution is now being used in many places instead of methylated spirit ; it does not require to be changed very often, and is thus more economical. After an operation the specimen may be placed in the solution, and will keep in good condition until an examiation of it can be made. Many specimens have been spoilt in consequence of the evaporation of the spirit which was tormerly used. Surgeons now rinse their hands and instruments in a weak solution prior to and after operating, and 1 or 2 per cent. is about the desired strength. It may be mentioned that it is very painful to cuts and abrasions of the skin.

It will be found most useful for disinfecting rooms, and can be used in the form of a spraj; or placed in various parts of the room in shallow vessels. Lamps can be obtained for using the solid paraformaldehyde; they are specially constructed, and, by an ingenious method, moist carbonic-acid gas is made to pass over the slowly vaporized solid, converting it into formic aldehyde. These will be of service to those distressing cases of cancer which have to be isolated on account of their unfortunate condition; and if the pharmacist can recommend anything to destroy the unpleasant odor which is characteristic of them, he confers a boon on the sufferers and attendants that is not easily forgotten.-Chemist and Druggist.

Hydrogol. and Organosol. - By these names are introduced (Pharm. post) two solutions of colloidal metallic silver, the first being prepared with water, the second with organic solutions, for instance, aicohol. They are expected to replace other silver preparations for hypodermic use. The solutions are stated to be prepared from silver nitrate by means of reducing agents.

## Medicinal Uses of Cotree.

It is said that the lirst use of coffee by man was made by the prior of a convent. He was told by a goat-herd of the exciting effects of the berries when eaten by his goats; so he thought he would try them and see if he could not keep his monks awake during what should have been their vigils. He succeeded admirably, and brought coffee into the way of earning its world-wide reputation. The most active principle of coffec is caffein; it contains also certain oils, which no doubt have a share in its action Many; years ago a claim was made tinat green, or unroasted, berries had a great value in liver and kidney troubles. One enthusiast prefers a mixture of two parts Mocha and one part Martinique and Isle de Bourbon coffec. He puts about three drachms of this in a tumbler of cold water and lets them strain and infuse over night. The next morning, after straining, the infusion is taken on an emply stomach the first thing after getting up. This medical authority cites many cases of kidney and liver colics, diabetes, nervous headaches, etc., which, though rebellious in all other ireatment for years, soon yielded to the green coffee infusion. The remedy is a very simple one, and well worthy of a trial. Another use of coffee medicinally is in nausea and retching. loor that purpose a strong infusion is made of the berries which have been ground and roasted, and it is sipped while very hot.

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is greatly in excess, and a small amount of lithia.--Mihenanke Mredial fournal, mewmer, digo.

## An Oflicial Pronouncement.

Under date of liebruary ist, Mr. John Mackenate, Official Bacteriologist of the Ontario Board of Health, reports the following result of his action in subjecting Antitovin purchased on the open market to bacteriological test:
"I berg to report to you the result of a test which has been made during the past month, upon Messrs. Parke, Davis Co.'s Antitoxin. This firm has repeatedly requested that such a test should be made, but routine work in the laboratory has been so great that it has been impossible to get the time until recently for its completion.
"The sample tested was bought in the oyen market, at a drug store, and the test applied was one to determine if the sample contained the number of antitoxic units indicated by the label.
"The label clamed that the botte contained 1,000 units ; the result of the test showed that it contained over 1,200 and under 1,500 units, probably nearer 1,500 than 1,200 units. This shows that the Antitoxin was reliable, as it is necessary to place in the bottle a good margin of units in excess of the label strength, so that the loss of units which takes place by keeping, may not be so great as to bring it in a reasonable sime below the amount indicated by the label.
"Antitoxins differ from other drugs in this respect, that there is no danger in over-dosing; the danger is rather the other way, and the nate of decrease in strength due to keeping is determined by factors which are largely not controlled by the manufacturer."

Reid Pigment of the l.abmind.-lly extracting the elytra of the ladybird, coccinella septompunctata, and those of pyrochroa coccinea and lina populi with boiling ether and alcohol, and purifying by resolution in alcohol and subsequently evaporating to dryness, Giriffiths (Comp. kend.) has obtained an amorphous red pigment, which is a lutein or lipochrome.

Toxoms.-This name has been a!pplied by Ehrlich (Ther. Monats.) to certain modified and less virulent bacterial toxins. He distinguishes protovoids, symtoxoids and epitoxoids. Toxins frequently are converted into toxoids.

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Cook's Cotion Root Compound, No. 1, Retalls \$1. Cook's Cotton Root Compound, No. 2, Retalls $\$ 3$. Many retaildrugaiosu sell darenv of theve goods while thers only sell a few bovex. The reason for these vaia tions in ales are that one orders from his jolber an not less yuantity than une doren Wood< Closphodme onte gozen Ccok's Cuson Kool Compmumd No. z, and piacesshe dozen cartons on his how case where thes cals lie veen and ex amined by customers. The olher orders a few boaes and hides them in a drawer behind his cumber where alies camot be seen, or what is silt norse, waits uatil a cuscomer asts for the goods and then orders a bor or two hus one drughist selle many dozens, the offier a few loone. or none at all. These zoods all afford a liberal profis to the retailer, and are filierally adiersived in Geatls all papers from Cape Breton to Britioh Culumbia. No retail druggist can make a mastake in ordering from his joblier at least one dozen each of these poods and placing thetn ut haveonly purchaced a few boxes and phaced them in a drawer behind their counter will, by purchaving in quantity and placine where they can be scen, be surprised how quigkly the will he sold. There is only ens alvey io sell roods, and that is to i-ces a swifly.

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# THE KING-JONES CO., Toonto, Canada JONES \& C0., Niagaa Falls, N.Y. 



The Solec ion of Photographic Apparatus.

Now that the day's are lengthening, and spring with its accompaniments of bright weather and sumshine is almost upon us, the amateur photographer will begin in think about unearthung his apparatus from winter epuarters and preparing it for work again; while there wiil be those who, tempted to investigate the great unknown in photography, will be considering the question of purchasing suitable apparatus with which to pursue this delightful pastime. For the latter this short article is written, ofiering suggestions and ad. vice in the matter, while a word or wo will also be given to those already advanced in the art.

It is so often the case that the beginner, when looking about for apparatus with which to commence photugraph;, purchases a hand camera frequenty at considerable expense. This is the worst possib'e procedure, and is the direct cause of keen disappointment, and often of the abandomment of the hobby altogether. It should be remembered that the successful use of the hand camera can only be accomplished after a complete mas!ery of the processes of development in instantaneous work has been obtained, and it is courting falure for any one with practically no knowledge of photography to commence work in this way.

The beginner is, therefore, strongly advised to purchase at the outset a good field samera, for with it instantancous pictures can always be taken, if desired, by means of a shutter attached to the lens; while there are makers who construct cameras which, although essentially designed for use on a stand, can with equal ease be used in the hand. As to the size of plate to be carried, that of most general utility is undoubtedly the half plate, because, in the first instance, when the beginner will be experimenting with his apparatus and making prelmin. ary trials, a smaller plate may alwass be used-and, in fact, is recommended-by means of carricrs in the dark slide.

The amateur with a moderate sum at command will naturally require apparatus at as reasomable a figure as possible. There is no advantage in going to the very extreme as regards cheapness, but under such circumstances a complete outfit should be purchased in one set. A thoroughly reliable half plate stt with good camera possessing modern movemems, rapid rectilinear lens, book form dark
slides, etc., may be obtained through a good photographic house for five guineas, and is capable of turning out really firstclass work.
To those budding amateurs possessed of a longer purse, and who are desirous of commencing photography under the most favorable conditions, each piece of apparatus should be purchased separately.
The principal feature of every photo graphic outfit is the lens, and in selecting this much cate should be exercised. A couple of good R.R. lenses may be purchased. one hav ng a focus of about 7 inches, for landscape work, and one of about + inches focal length, for wideangle work or photography al close guar. ters. (;ood fureign lenses can be procured at 'e most reasonable prices, and they are instruments, too, which are capable of doing splendid work, but there is always a certain amount of risk with them. Where price is no object the beginner is recommended to invest in a lens of modern make, such as a D.llmeyer's Stigmatic, which can truly be termed a universal lens; in fact, as the maker asserts, it is capable of doing the work of four lenses. A lense of thes description, covering at its full aperture a guarter. plate, can, by inserting a smaller stop, be made to cover a half-plate, thus becoming at ouce a wide-angle lens; or by removing the front combination the focal length is douiled, when it may be utilized as a long-focus landscape lens. Every lens should be kept in a separate chamors leather bag, free from dust and grit, and when cleaned it should be carefully wiped with a very soft old silk handkerchief.

As regards the special form of call ra, the best for every purpose is one built with square bellows, and athough the beginner may not at first appreciate its value, the time will arrive when, having become proficient, he will find sucha camera simply indispensable. Cameras with conical bellows are generally lighter in weight and more elegant in appearance, but when they are being used under extraordinary circumstances, where it becomes necessary to employ the rising front or swing back to its utmost limit, parts of the innge are cut off, and troubles soon arise. Then, 100 , when using a wideangle lens, it is very seldom that a camera of this description can be satisfactorily and easily manipulated, and in other ways the tapering bellows becomes a source of annoyance. In the matter of the tripod the principal points are that it should be perfectly rigid when set up, not liable to
vibration; and nothing in it should be sacrificed to lightness.

When the beginner has completed the outfit he should become thoroughy acfuainted with the working of every part of the apparatus by setting it up and mastering the details of manipulation ; and if a photographic friend be available, a few lessons should be taken. The preliminary chapters of a work like the " Ifford Manual" are very useful for conveying information in this respect.

To the amateur who, having made progress in photography, is desirous of purchasing a hand camera, a few words of advice may not be nat of place here.

In the first place it should be decided whether roller films, flat films, or glass plates are to be used. The writer still adheres to the latter, but most hand cameras designed to carry plates ${ }^{\prime}$ will admit of the employment of nat celluloid films. When selecting a hand camera ite following points should more particularly be considered :
(1) The lens.
(2) The method of plate changing.
(3) The shutter.
(4) The particular form of shutter release (the trigger).

According to the quality of the lens will be the price of the camera. The ideal lens tor hand-camera work is one which will give absolutely sharp images In the corners of the plate when used with the full aperture of about $F \cdot G$, allowing exposures to be made with a quick shutter and in a dull light. Most hand cameras are fitted with lenses of much too short a focus. If possible, one having a focal length of not less than 5 in. for a quarter-plate should be chosen, provided with an iris or revolving diaphragn. The great objection to so many hand cameras is that the lens is built into the body, being extremely difficult to reach for cleaning; whereas if it be simply screwed into its lange in the ordinary way it can not only be taken out easily and cleaned when necessary, but it may, if required, be used in a stand ca!nera, in which case, of course, an extra nlange would have to be provided. There should also be a flap or sliding panel to protect the lens from dust when not in use.

Kegarding themethod of platechanging, in the writer's opinion there is nothing equal to the changing bag, where the fresh unexposed plate is transferred to the bag by means of a plate-lifter and shifted into position in front. The whole operation is under the worker's control, and there is
practically no chance for the plate to become fixed. Dark slides tor the hand camera have their good points, but in many respects it is doubtful if they are superior to a well-made magazine. There is one particular, however, in which they are extremely useful, in that they may be filled with plates of different speeds and time and instantancous exposures made at will, whereas if this were done in a magaz. ine camera there is great danger of losing thein whereabouts. Some cameras have an extra chamber, inte which each plate falls as it is exposed. Although this is a fairly reliable method on the whole, the size of the camera is somewhat inc.eased.

There is no doubt but that the rollerblind shuter is the best for hand camera work, and very few are made nowadays without it. Metal shutters actuated by springs are very uncertain. The springs are generally spirals oi brass wirc, which soon become weak, causing the shutter to work slowly and sometimes to fail altogether. The question of a shutter release may seem so trival a detail as to be not worth considering, but in point of fact, it has a most important bearing upon the subject, and is more often than not the cause of blurred images and spoilt plates. The proper place for the trigger is undoubtedly in front of the camera, so that it may be pushed backwards towards the lens, thus reducing risk of vibration to the minimum. Some releases are piaced on the right. 1 id side of the camera, and are intended to be pushed downwards with the thumb. This device is not a good one, as often in the excitement of releasing the shutter the camera receives a tilt upwards from beneath. The pneumatic ball, of course, is always good, but it is a question whether the long rubber tube is an advantage in hand camera work.-Phar. Yournal (Eng).

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patents.
Sullman W. Robinsun and II. J. Det mers, Columbus, Ohiu, Hypodermic syringe, $600 \mathrm{SO}_{3}$.

David Genese, Baltimore, Md., Cap. sule machine, 600 S $_{3} 3$.

Hugh W. Graham, Louisville, Ky., Inhaling mask, Go107.t.

George E. Homan, Williamsport, Pa., Invalid bedstead, 601001.

Wm. A. Johnston and A. W. Browne, Prince's Bay, N.Y., Gas-admiaistering apparatus, 60105\%.

Mary A. Slatter, Leechampton, Bng land, Bed-pan,, oros. 4.

Johan Ci. Wiborgh, Stockhoh, Sweden, Phosphate and making same, 10 oses.

George I'. Adamson, Easton, Pa., Ap. paratus for manufacturing acids, 601.157.

Burd P'. Beaver, Conshohoken, P'a., Inhaler, 60122S.

Isaac (). Ciurnce, Butler, N.J., Combined atomizer and syringe, 00150.4 .

Isaac (). Ciurnee, Butler, N.J., Atom. iner, gotbic.
Cdward Hart, E.aston, P'a., Apparatus for concentrating acids, 6oi.to6.

Fridrick W. Korb, Cleveland, Ohio, Device for treating rectal diseases, 601345.

Richard MI Thomas, Greensburg, Ind., Design, surgical stand, $2 S_{4} 3^{\text {a }}$.
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Otto Andreae, Central Valley, N.Y., Fumigator, 600213.

Edgar de Laire, Paris, France, Ionone derivative, 600429 .

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Wm. M. Mixev, New York, N.Y., Ab. sorber, 600159.

John S. Muir, San Francisco, Cal., Therapeutic electrode, 600290.

Alonzo F. Richardson, New York, N.Y., Nasal injector, 600449.

Stillman W. Robinson and H. J. Detmers, Columbus. Ohio, Hypodermic syringe body, design, 2834.4 .

## TRADE:MARKS.

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Farbenfabriken, vormais Friedr. Bayer \& Co., Elberfeld, Germany, Scientific food and iron preparation, 31389 .
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Thomas W. Graydon, Cincinnati, Ohio, Remedy for obesity and disordered conditions allied therewith, $3^{1} 39.4$.

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Linford J. Smuth, l.a Crosse, Wis., Remedy for the removal of corns, callouses, vunions, ingrowing mails, and warts, 31397.
Farbenfabriken, vormals Friedr. Bayer \& Co., Elberfeld, Germany, Colormg matter of dye-stufis and medical compounds, 3 1422.

Mcarthur $\mathbb{S}$ Winston Bros, Memphis, Tenn., Chill cure, 314\%4.

Silver Dandruff Cure Co., Owosso, Mich., Medicated salve, 31425 .

Sprague, Warner \& Co., Chicago, Ill., Lemon, vanilla and orange extracts, 31438 .

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Myalgine Co., Philadelphia, P'a., Remedies for certain named diseases, 31447.
1.abli:L.S.

Levi E. Horton, Avoca, N.Y., "Laureda" for Hair 'Tonic, 6561.
C. Billeter, Chicago, Ill., "The Best Tonic Celebrated Swiss Herb Bitters," 6563.

## Bacteriology as a Side Line for Chemists.

> By F. Phlimgan Samgeant, Ph.C.

Of late years much has been done both in England and America to develop; a more professional spirit amongst chemists and druggists. As a result of these efforts we find that they are striving to make more use of their education than heretofore by engaging in profitable scientific pursuits, which, however, can only be profitable to chemists in certain neighborhoods and with a certain class of clients. One of the most interesting and fairly profitable of these subjects is bacteriology, and as the practice of it requires care and cleanliness more than expensive apparatus, it can easily be brought within the reach of the chemist. A medical man often has sputum which he wishes to be examined, or the local authorities may require a bacteriological examination of water, etc. ; and there is no reason why a chemist, with a little experience, should not perform these operations, and so add a little to his income. I will endeavor to indicate the lines on which intending students of the science should proceed.

Bacteria are minute, colorless cells, generally transparent, and they contain no nucleus. Their contents are often homogeneous, but sometimes are oily and granular. They may be round (cocci), united in groups of eight (sarcina) or in chains (streptcocci), or they may consist of minute straight rods (bacilli), the smallest of which are the influenza-bacilli. Sometimes the rods are spirally coiled, forming spirilla. The pellicle often found on decomposing organic matter is composed of the extended cell-membranes of the bacteria which have conglomerated. They are reproduced by fission or splitting, but often by means of spores, which are formed either in the centre or less frequently are terminal. The products of their metabolism are numerous; sometimes coloring-matters are produced (never chlorophyll), very often foul-smelling liquids; though in some cases, as in the bacillus of Asiatic cholera, a pleasant-
smulling liquid is excreted. These bodies, when existing in quantities, are fatal to the bacilli producing them. They may be obtained in various ways-by boiling pure cultures of the required bacilli, filtering and purifying by means of alternate solution $m$ dilute alcohol and precipitation by absolute alcohol, in which they are insoluble. It may be of interest to note the method by which Koch ob. tained his tuberculin. He bred tha tubercle-bacilli in an alkaline solution of veal (taking precautions that no other bacilli were present) containing 1 per cent. of peptone and 4 to 5 per cent. of glycerine. This solution, having received the seed-culture, was kept at a temperature of $38^{\circ} \mathrm{C}$. for three or four weeks, when a pellicle formed; this broke up in thrce or four more weeks, and the ripe solution was filtered through infusorial earth. Such bodies are alleged to have a very powerful physical action, and are supposed to be of great therapeutic value in cases where the bacilli producing them are concerned.

In the study of bacteriology the principal processes are the preparation of media and the sterilization of instruments, etc., used in the preparation and inoculation of such media. Sterilization is rendered more difficult by the powerful resisting action of the spores, which are able to retain their vitality at a temperature far above that at which the parent bacteria would succumb. The most efficient sterilizer for instruments is the Bunsen flame. Where, however, from the nature of the tools, it is inapplicable, they should be heated in an oven to $170^{\circ} \mathrm{C}$. for half an hour, or in a steam•bath for one hour, the last-named being best for such things as cotton wool, great care being taken in drying. To sterilize gelatine it must be heated on a water-bath for a quarter of an hour daily, during three days. If heated longer at once, it loses its power of solidifying. Blood serum so treated would decompose, hence it must be heated to $55^{\circ} \mathrm{C}$. for three or four hours daily during a week. Sometimes it is necessary to use chemical sterilizing agents, the best for the purpose being 0.1 per cent. solution of corrosive sublimate. Carbolic acid, lime, chlorine-water, osmic acid, etc., are also used. Chloroform is also a very useful sterilizing agent, owing to its low boiling.puint. In using chloroform to sterilize a liquid, it is mixed with the liquid, allowed to stand some days, and then heated to $62^{\circ} \mathrm{C}$. for one hour, this process killing both bacilli and spores.

An incubator is also required. This is simply an oven, preferably with felt sides, glass doors, and a thermo regulator atiached, capable of being retained at a temperature of about $37^{\circ} \mathrm{C}$. Several bell-jars, square glass plates, water-baths, hot-nater funnels, and test-tubes complete the apparatus required, it being taken for granted that all chemists possess a fairly good microscope.
To fit up a bacteriological laboratory for advanced work requires an initial expenditure of about rol, invested thus :-

As to the preparation of media and cul. tivation of the micro organisms, gelatine needia are unmistakably the best for 2 beginner, and the following process is the one generally recomniended for its prep. aration:-

Five hundred grammes of good meat, free from fat, are chopped fine and aliowed to stand in 1,000 c.c. of water for twenty.four hours; the liquid is then filtered and heated on a water. bath for forty minutes to precipitate albumen, and again filtered, making up to 1,000 c.c. with water if necessary, then adding 100 grammes gelatine, 10 grammes peptone, and 5 grammes of common salt, allowing to stand for a while, then heating on a water $\cdot \mathrm{ba}^{+}{ }^{4} \mathrm{~h}$ to dissolve the gelatine, keeping the bulk made up with water. Now the reaction of the liquid is noted, and, if acid, neutrality is produced by means of caustic soda. It is then filtered through paper in the hot water funnel, and if the filtrate is not clear a little egg-albumen is added, the fluid is boiled and refiltered.
Some of this prepared solution is then introduced into test-tubes (about filling a quarter of the tube) carefully by means of . funnel, none of the mass being al. lowed to touch the side of the upper part of the tube. These test-tubes must have been sterilized by immersion in boiling water for one hour. Having introduced about 10 c.c. of the medium, the tubes are plugged with colton-wool, which has the remarkable property of preventing the passage of bacteria, and kept heated in steam for a quarter of an hour daily for five days. 'They are then ready for inoculation-that is, for the insertion of seed-cultures containing any particular bacterium. These seed-cultures are introduced by means of a sterilized platin-
um wire, whin is lirst inserted in the sputum or other body from which it is desired to catract the bathi, and then inserted into the gelatine in the cube, which is held mouth downwards during the temporary removal of the cotton-wool plug. Plate-cultures, potaio cultures, etc., as not being suitable for one just commencing the study, need not be more than mentioned. Some time after inoculation, varying with different bacilli, a white or coloured streak will be observed to form in the course of the platinum needle. This is due to the formation of colonies of bacilli, and if another tube be inoculated from one possessing such a streak, a culure will be obtained of greater purity than the first, and by comtinued reinoculation a perfectly pure culture will be finally obtained, the characteristics of which can then be definitely ascertamed.

Having now briefly sketched the main points in bacteriology, I may refer to its value to the chemist. It is impossible to describe in detail here the many procesies involved in the science, but the two which are of most general interest may serve as types. The value of a bacteriological examination of drinking water is not very great since it is almost mpessible to dis tinguish in a reasonable tume the pathogenic microbes from those which are nunpathogenic. The cotal quantity of microbes present in a sample of water is therefore all that is generally tequired, fur, as Piofessor P. F. Prankland has pomted out, if there are a large number of microbes of any description present there is a greater chance of harmful microbes being there than if only a few were pres. ent. As to how many colonies might be allowable opinions differ. Miguel says a good sample ought not to yield more than 10,000 colonies per c.c.; other writers, however, give a lower estimate. If a sample of water contained, say, over 0.1 per million of albuminoid ammonia, and gave over 5,000 colonies per c.c., then it would certainly not be safe for human consump. tion.

A sample of water is obtained in a sterilized bottle, and the exammation of it must begin at once before the nucrubes have time to multiply. One cubic centimetre is well mixed with some of the melted gelatine prepared as above and poured over a square glass plate under a bell-jar, both sterilized. When the gelatine has solidified the plate is placed in such a position that it may be retained at about $22^{\circ} \mathrm{C}$. for several days, when anamerums culunies are fundidio late de
veloped. 'lhese are then counted by placing a glass marked into squares, and called Woithugels countong-plate, over the gelatine, though not touching $i t$, and examined by means of a lens. The num. ber of colonies in one square being noted, this number multiplied by the number of similar squares on the plate will give the number of microbe colonies in 1 c.c. of the water.
In the examination of milk the quality rather than the quantity of microbes is of importance, as also in the examination of the sputum of suspected phthisical sub. jects, which is carred out as follows: $A$ little of the more dense portion of the sputum is spread on a cover glass by means of a needle, and dried a little. It is then placed in an aniline water-solution of fuchsine, gently warmed, and allowed to stand for five munutes. It is then removed and placed in a 3 per-cent. solution of hydrochloric acid in alcohol for one minute. This removes the stain from all but the bacill. It is now rinsed with water, and a doop of aqueous meihyl blue is poured over it, when it is again washed, and dried by quickly passing it through the flame of a spirit lamp about thee times. It is now ready fur examination. If the liucillus tulerculosis be present, numerous rodike bodies of very characteristuc form will be noted. They generally appear to be more or less ringed, their marking being brought out wonderfully by the double stain. To examine milk, one drop of the suspected milk is evaporated on a coverglass with one drop of a i-per-cent. solution of sodium carbonate, which saponifies the fat, an $d$ is then treated as above. Did space permit, many more examples might be brought forward to prove that bacteriology is a most interesting, appropriate, and possibly a profitable science for the chemist to pursue; and, particularly to the numerous students of piotomicrography, a field is opened up which cannot be surpassed in providing material for delic te work.Chemist and Drugsist.

Golimike Alioy.-An alloy of 94 parts of copper and 6 parts of copper and 6 parts of antimony, discovered in France, is declared to be a wonde:ful substitute for gold, and when polished it almost exactly resembles that metal. It can be drawn, wrought and soldered precisely like gold.

Ionocalicin.--A new antiseptic powder, being a compound of bismuth and ux) wadumethysaliul.

## Facts About Lanoline.

l'ure lanoline is perfectly neutral, is very difiticult to saponify and has no tendency to become rancid; its capacity for absorbing water is remarkable, taking up when kneaded with water about ino per cent., forming a plastic, cream-like fat; it also combines freely with glycerine; in both forms-bydrated or with glycerine -it forms an excellent basis for ointments, pomatums and cosmetic purposes. The extraordinary capacity with which lanoline and lanoline ointments are rapidly absorbed by the skin affords an unrivaled method of introducing effec. twe remedies through the skin; as an evidence of how promp:ly this absorption and action takes place, the fact may be mentioned that, for instance, a lanulme corrosive sublimate ontruent, containing but: 1000 per cent. of sublimate, produces the metallic taste upon the tongue within a few minutes after application on any part of the body, as, also, that upon the application of a 10 per cent. potas. sium iodide lancline ointment, the presence of iodine in the urine will make its appearance in about $1 / 2$ to $3 / 4$ of an hour after application. No one of the known tats approaches this extraordmary power of absorption, etther by the skin or of water, lard associates with but 15 per cen:. of water, and petrolatum stands in his respect lowest on the scale of all fats, absorbing but 4 per cent. of water and being least absorbed by animal tis. sue.

## HURivS.

Dr. Walton advises in cases of exien. sive burns:

|  | Parts. |
| :---: | :---: |
| Itiododithymol (Aristol). | . 1 |
| Sterilized olive oil. | . 2 |
| Vaselur. . . . . . . | . 8 |

Around the edges of the burns, after the ointment is spread, he dusts diiododithymol (Aristol) in powder form. In burns of small extent, he employs the puwder only. Cleanliness must be thorough whenever the dressing is changed. One of the great advantages of the foregoing is its freedon from poisonous effects. There is some smaring at first, but it soon passes off.-MEdical Age.

To Cifar Lemon Juice.-Agitate the fresh lemon juice with $;$ per cent. of kaolin and filter through lelt bags. The addition of 5 per cent. of alcohol facilitates precipitation of gumay matter.


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## Photographic Notes

Aluminium to replace Magnesium. -M. E. Demole, in a communication to the Sociéte Française, recommends aluminium as much superior to magnesium for flash-light work. He found that the reds and yellows in a bouquet of flowers came out in almost ortho-chromatic relation when aluminium was used as the illuminant-a much superior result to that with magnesium being secured. Although a mixture of potassium chlorate and magnesium or aluminium serves very well. M. Demole finds the following to be superior, the mixture burning with a rapidity which leaves nothing to be de-
known fan-leaved palm, and it is a fine plant for decorating the studio, although for introducing into portraits it is rather massive. Another good palm is Ereca Lutescens. This is a very graceful and rather tall-growing variety, and can be used in many ways, either for decorating the studio or in practical portrait work. Many of the numerous family of Kentius are also very useful and they are very good, sturdy plants, as well as graceful in form. The well.known Cocos IVeddelliand is a little gem in its way, its light, feathery appearance giving it the look of a gracsful fern, and harmonizing well with

| Water. | 1000 parts |
| :---: | :---: |
| Borax | 10 |
| Acetare of Soda (fused). | 10 |
| Chioride of gold ( $1 \%$ solu. (ion). | $30 \times$ |

As soon as the half-tones appear blue by transmitted light, rinse and fix in a $10 \%$ hypo-bath for ten minutes. To obtain a brownish-black tone, treat the print in the manner just indicated, but when the prints have altained to a red-violet tone in the bath, remove them, and after rinsing immerse them in the foilowing:

| Wat | Is |
| :---: | :---: |
| Potassium Chlorophatinite.. | $1{ }^{\prime}$ |
| Commun salt. . . . . . . . . . . | 5 |
| Citric scid. | 5 " |

They will soon take the desired tone, and when this point is reached, plunge them in the $10 \%$ fixing bath. As soon as they

sired. If less permanganate ine emplosed than the proportion recommended, the speed of combustion is less, and the smoke very much greater .

> Potassium l'ermanganaic. ...... 2 parts

Aluminium ..... .............. "' "
Folmage in the Stumo--Probably nothing adds more to the artistic appearance of the studio, or produces a better effect on patrons by exhibiting good taste, than a few handsome or strikingly formed natural plams. Among plants that are particularly adapted to this purpose is the palm family. One of the best palms for bold, striking effects is the Latina Bourbonica. This is the well.
artistic surroundings. For more bold and striking effects, the well-known family of Draienas, or dragon trees, are frequently very useful, but the red-leaved varieties must be used with care under the skylight, as, in a photogram, they come out very dark. When using orthochromatic plates, however, their color values are much better rendered. -The Professioncl Photographer.

ToningGeimtino ChioridePelnts.The following formula is given in the Photo Reque: Wash prints in wo waters containing as little lime as possible, then, after draining off the excess of water, immerse in a bath composed of
come in comact with the hyposulphite they will redden, as if all the toning had disappeared, but, on waiting, the proper tone will come back litte by little. The wash water after fixing should be changed at least ten times.

## Photography for Chemists.

Mr. H. Hunt, L.P.S.I., recentiy read a paper on "Photography" before the Irish Pharmacists' Assistants' Association, in which he argued that the art of photography should be taken up by chemists as a source of profit to themselves, and 10 Enable them to set the novice right in the purchase of chemicals. Having related the history of the discoveries which
had brought the art to its present position, the lecturer st:owed by practical demonstrations on the blackboard diagrams of light passing through lenses, and explained its action on chemeals. Speakeng of the camera Mr. Humt, said this was secondary, up to a certain poim, to the skill and experience of the operator. Ho show that expensive apparatus was not essential, he showed a photograph taken by means of a cigar box, an clastuc band, and a shutter worked by a hairpin. Half-plate camoras were recommended for beginners, and promiscuous snap. shuts were deprecated. The focussing of an object was dealt with. The taking of a picture was governed by the exposure, character of the light, nature of the subject, time of year, hour of day, etc. Sky and sea views required shont exposures, while woodland scenery and dark masses of foliage required long exposures. The rule was "evpose for the shadows and let the high lights take care of theraselves." Developing was next treated of, and the following formula for a developngspreparation was green as a stock solution of pyro :


$$
\text { No. } 2 .
$$



For a correctly-exposed plate equal parts of :ios. 1 : and $=$ were taken: 6 dr. of each would be sufficient for one plate. The developing-iray should be kept away from the ruby lamp. Place the plate in the tray, film-side upwards, and pour thereon the mixed developer with a rapid motion so as to completely cover the plate, rocking the tray immediately. In a minute or two the image will begin to appear in patches, the parts where the light was brightest showing up first. In a landscape the sky would first appear in a dark patch. The developer should consist of three pates, viz.:

$$
\begin{aligned}
& \text { 1. The developer or re. } \\
& \text { ducer.... . . . .yro. } \\
& \text { 2. Acclerator... ... Sodr carl. } \\
& \text { 3. Kestrainer ...... .. Hromide of jotassian. }
\end{aligned}
$$

The addition of sulphite of soda prevents pyro absorbing oxygen from the air, and bromide of potassium keeps the pyro from attacking the silver salts too rapidly. The
plate, having been developed, should be first washed and then immersed for five minutes in a solution of alum and water$1 / 20 \%$. and $200 \%$ respectively-then again washed, and afterwards placed in a fixibgsolution of a zo-per-cemt. of hyposulphite of soda to dissolve the unaltered salts of silver on the plate, and leave the image only, the result being a double sait of hyposulphite of soda and silver. After removal from this bath the plate should he washed in rumbing water for two hours. Printing and toning were nent touched upun, the solution for the later being givenas-

> Salphocy:anide of ammonia.. $\quad$ jo gr.
> Chloride of gold............. $z \ddagger \mathrm{gr}$.
> Water

After toning, the prints should be fixed in a solution of hyposulphite of soda half the strength of that used for the plate.-Chim. and Drus.

## Optical Department

In charec of W. E. Haxitis., M.D., Toronto.


Correspondents should note that for an intelligent answer to be given to their inquiries it is necessary in every case to give the following information relatue to their patient: (1) Sex, (2) age, (3) occupation, (.f) near point of distinct vision for small type with each eye alone, (5) how their eyes trouble them, i.e., their asthenopic symptoms, (6) vision of each eye at iwenty feet alone without glasses, (i) best vision obtainable with glasses, naming correction.
E.rample.-I.S., male; age, is ; bookkeeper; can read small type to within five inches of each eye ; complains of much headache through the day and evening; eyes feel sore and water a good deal, look red and inflamed, etc., cte.

The above example is taken to illustrate about how we desire inquiries to be made.
I..A.I. What is the best line to pursue in high myopia, say above r. l , in a man 35 years old ?

Aus.- It depends upon his occupation, but in these high eases the best plan is to give them a litte more than half their full correction. In the case above I would
probably order a minus 9 , possibly 10. Ol course at church and public gatherings this correction will not give as good vision as could be obtained by full correction. On the other hand, it affords fairly satisfactory vision at all distances, for myopes realize their infirmity and soon learn by intuition and experience to interpret retinal images which the emmetropic ege could not possibly do. A pair of extra fronts to slip on as occasion demands overcomes the most exacting. Alhough high myopes seldom prefer their full correction on account of the minifying effect which concave glasses has on objects, which is especially pronounced with high numbers of concave glasses.
T.L.B. I had a child, aged 2 years, brought to me whose hair was a beautiful white and eyes a pink. The light seemed to hurt the child's eyes and they seemed to be moving in every direction constant19. W.at would you advise in this case?

Ans:-This child no doubt was an albino, which is caused by a diminution of the pigment in the system. The result of so litte pigment causes the hair to be white, and because there is little or none of this pigment on the back of the iris and in the choroid the light enters the eye in fioods, which rauses photophobia. Perhaps the best advice $m$ these cases is to do nothing, although a pair of plain smoked glasses, about No. 2 tint, would be very comfortable. You can give the parents some comfort bs telling them that the pigment may increase as the child becomes older, which is a fact in some few cases.

## What Is It ?

The following order was recently received in a retail drug store in Western Ontario. What does it call for? "Eyedying Amerky."

Hydrakisposertol.. - A new antisyphlitic consisting of mercury quinoslate and sodium chlond. It is a yellow mass, dissolving in 20 parts of water.

Similakity of Odor of Oplum and Hydrastis.--Gerocik (Journ. d. Pharm. v. Eils-I.oth.) remarks upon the similarity of the odors of opium and hydrastis, and suggests that since narcotia and hydrastine are closely related, the same may be true of other of their proximate prin. ciples.

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There are numbers of our students who have increased their busmess profits from $\$ 300$ to $\$ 1,000$ per year (and that in small villages) as the result of getting the right kind of knowledge at the right Institution. The above are our opinions, and if you are interested and wam the opinions of hundreds of our former students and graduates, write for our prospectus direct :o

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Bartley's Medical Chemistry....... 300
Sayre's Organic Materia Medica and
Pharmacognosy................... $45^{\circ}$
Practical Perfumery . . . . . . . . . . . . . $5^{\circ}$
Proctor's Testing . . . . . . . . . . . . . . . . 50
Stewart's (Balfour) Physics. . . . . . .... 1 oo
Shutleworth's Notes on Nंew Reme-
dies
Squ................................ 50
Squires Companion................ 300
Spotton's High School Botany.... 75
Haines' Electro.Therapeutics..... i $^{0}$
U.S. Pharmacopocia ( $\mathrm{ISS}_{3}$ ) ....... \& 00

Jones' Practical Chemistry......... 65
Dick's Encyclopadia of Practical
Receipts (6422)................. $=50$
Fowne's Chemistry. . : ....... $=25$
Principles of Pharmacognosy, Fluck
iger and Tirsch . . . . . . . . . . . . . 225
Oldberg's Home Study in Pharmacy is oo
Duane's Medical Dictionary..... . 300
Culbreth's Materia Medica and
Pharmacology
Leonat's Vest P'ocket Anatomist . i 00
Robinson's Latin Grammar ..... 1 is
Gould's Medical Dictionary....... 325
Hare's Text Book Practical Therapautics
Beasicys Receipt Book ........ .. 200
Liquor Sales Register . . . . . . . . . . . . . 60
Poison Sales Register . . . . . . . . . . . . 60
Refraction of the Eye (Morton).... 100
Discases of the Eye (Hunsell is Bell)

50
Spectacles and Eyeglasses (Phillips) i oo
The Canadian Druggist, 2 . Torohto, Canada.


## John Labatt, London, Ont.

RECIEIVED

## MEDAKS and HIGHEST POINTS

Awarded on this continent at the WORLD'S FAIR, CHICAGO, 1893


TORONTO.-J. GOOA \& Co., Yonge Street. ST. JOHN, N. B. -F. Smith. 24 Water Stret.

## Mirrors, Show Cases,

 Wall Cases, Counters.Interion fitinge of all deschiptions
MANUFACTURED BY

тне COBBAN MFG. CO. LIMルツED

Lake and Lorne Strects. TORONTO

## DOMINION SHOW CASE CO'Y

173 BAY STREET, TORONTO


MaNUEACTURELKS OF
SHOW CASES, WALL CASES, JEWELERS'. CONFECTIONERS
AND DRUGGISTS' FITTINGS
GRII.L WORK, FANCY CABINET WORK, BRITISH PLATE MIRRORS, BENT AND BEVELLED GLASS

JOSEPH E. SEAGRAM
Waterioo, Ontario.

MANUFACTURER OF
ALCOHOL

## Pure Spirits

Rye and Mfalt Whiskies
"OLD TIMES" and "WHITE WHEAT"

## MINARD'S

"kimg of palin' Gumentir

Sold from Malifax to Victoria
 ST. JOHN-T. B. Barker \& Sont YARMOUTH-C. C. Richards \& Co.
 KINGSTON-Henty Skinner a Co. $\quad$ Erana Sina $\&$ Ce.
 HAMILTON-Archdale Wilson \& Ce. J. Wioer \& Co. LONDON-Londoa Drug Co. Jas A. Kensady \& Ca WINNIPEG-Martin, Bole \& Wyane Co.
HEW WESTMINSTER-D. S. Cartis \& CA
VICTORIA AND VANCOUVER 1 angles \& Hender QUEBEC. -W. Mrunct et Cic.
ST. JOHN - Canadian Drue Co PRESCOTT.-T. W. Chamberhains Co. MONTREAL.-Huden, Huber \& Co.

## PATENTS

Cavearts, Triade IIarlks. Denigat-
 Corrsspondence Solicited.
John A Sanl,
LeDroit Buidding, Washington, 0


# The Science of Optics. 

\author{
I\} LIONEI, J.AURANCI:.

}
lintered according to Act of Parliament in the year 1866 , by lionel Jaurance, at the Department of Agriculture.

## Myopia.

At the age of fifty-five, when the conditior: that in an emmetrope causes acqu:esd H , comes on, the structural changes that take place in the eyes do slightly decrease the extent of the M, and weaker lenses are required for distance, and in act slight degrees of M, say up to I .50 D or 2D, may disappear altogether. For reading, of course, after forty years of age, the Cc. lenses must be reduced in strength on account of the advent of presbyopia, and it the $M$ be not very high the person will reach an age when he requires no lenses at all, and later Cx. lenses for reading and Cc . for distance.

If the myope be of more than 2.50 D , theoretically Cx. glasses can never be required. The 1 P , owing to the presbyopia, can recede, but it can never pass beyond the PR , and the myope of 2.50 D can therefore always read at 16 ins.

In reaity, $M$ of 6 D is the smallest degree that cannot at any age require C . lenses, because $M$ might decrease owing to the flattening of the eyes in old age as much as 2.50 D , and the decreased visual acuteness of old age may require that the reading may be brought to 11 inches.

When a person gets old the pupils become smaller and cut off some of the peripheral, and therefore most refracted rays, thereby causing a myope to see rather better.

When one hears of people with wonderful sight who have uever, or only very late in life, required spectacles for reading, it is a certainty that they are myopic to a greater or lesser degree.

In very high degrees oi $M$, when lenses are of no use owing to the extremely bad condition of the eyes, some improveraent in sight might be made with dises with centre apertures which reduce the circles of diffusion formed at the macula. Such bad cases of M should not, however, be treated by the optician unless all available medical treatment has been tried without result.

Myopes not using glasses have a habit of partially closing the lids, so as to cut off some of the peripheral rays, and thus obtain better vision. The name of the defect-eye closed-is derived from this habit.

Large pupils are rather the rule in M.

This is doubtless caused by inactivity of the sphincter of the iris induced by inac. tivity of the sphincter of the ciliary. As the incident cone of light has a greater angle of divergence when the pupil is large, it would seem as if a large pupil should cause improved $V$ in $M$, but this is more than counteracted oy the increased refraction of the eye when the pupil is large, so that the sight is really worse with large pupils.

Accommodative $M$ is a term applied to a condition of the sight where the eyes being hyperopic or emmetropic, the ciliary muscle contracts spasmodically, causing an apparent M. It need hardly be said that not being true $M$ it cannot require Cc. lenses. Sometimes this condition is found with true $M$, causing it to appear of a much higher degree than it really is. It is usually due to exophoria because the necessary convergence effort brings about an accommodative effort. This condition was mentioned under H and will be agam referred to under spasm of accommodation.

The P P without lenses should be measured in every case of $M$ in order to prove the correction by lenses, and to avoid an overcorrection where there is a spasm of the Ac. Thus suppose a person to be twenty years of age, and the sph. lens that makes $V=\frac{\pi 0}{80}$ is 4 D , then the amplitude being toD and the $\mathrm{M}_{4} \mathrm{D}=\mathrm{I}_{4} \mathrm{D}$, and 14 into $+0=23 / 4$. His $P P$ will be at $23 / 4 \mathrm{in}$. and the correstion found -4 L is about right. If the position of the $P \mathrm{P}$ does not correspond to the distance test further mvestigation is needed.

Although M has been discussed as being refrastive and should be so considered by opticians for the sake of simplicity, it is in reality ncarly always axial. It is said indeed that the cornea of the myopic eye, being larger than the emmetropic, in proportion with the rest of the globe, is of a greater radius, and so of less refractive power. This might be or not, or the eye might be myopic, partly refractive and partly axial, but the anatomical structure is of no importance to the refractionist; he is interested only in the refracting power of the cyc, and so whether the defect be the one or the other it does not in the slightest degree alter the fact that for convenience $M$ must be considered as the condition of cyes that have more
than 50 D of refraction, and the correction consists of giving lenses that neutralize the surplus refraction so that the eye and lens together make the normal refractive power of 50 D .

A Cc. lens diverges parallel rays of light. The myopic eye of say 3 D is exactly adapted for receiving on the retina the focus of rays from 13 ins., hence if there be placed in front of such an eye a -3 D or 13 in . Cc. lens, parallel rays are rendered divergent just as if they came from a distance of 13 in., and thus distant objects are made visible. The optician renders parallel rays divergent, before they enter the eye, to that extent for which any myopic eye is anatomically adapted.

A-sph. lens corrects a slightly lesser degree of $M$ than its No. I indicates. The di erence is small and need not be considered, as the defect is always taken as being of sc many D according to its correcting lens. The difference is owing to the distance between the lens and the eye itself, instead of the former forming an integral part of the latter. The nearer the lens is to the eyes, the stronger is its power, so that if a person sees through a Cc. lers equally well when it is further removed, it shows that the lens is too strong, and if he sees better when it is nearer it is too weak for a full correction. Myopes wearing glasses that do not fully correct the defect bring them as close to the eyes as possible. The habit is also indulged in because then the retinal image is larger. The retinal image in $M$ is larger than in Em., a C.c. lens makes it smaller. it is best when it is the same as in Em., which is when the lens is about at $15 \mathrm{~m} . \mathrm{m}$. in front of the eye, so this is the proper position for the lens when in use.

The Ac. is really never totally relaxed except in extreme old age, and very high degrees of M. Therefore under atropine most cases of $M$ show a smaller degree of defect and the correcting lens, if a full correction be needed, must be somewhat stronger-perhaps iD-than that which makes $V=\frac{30}{20}$ while the effects of the drug obtain.

In very high degrees of $M$ the removal of the crystalline by operation has been suggested and even tried. The results did not prove satisfactory, being generally followed by retinal detachments, nor were there in any case reasons to suppose that changes in the retina and choroid were arrested, while on the cther hand fluidity of the vitreous seemed rather to be caused by the operation than prevented.

The increase of length in the visual line in $M$ is roughly $:_{s}$ of an inch ( 1 l m.m.) for ench $D$ of the defect. The amount of increase can be calculated by dividing the focal length in mom of the correcting
lens into 300 , the result being mm also. Thus in M 2l) the focal length of the correcting lens is $500 \mathrm{~m} . \mathrm{m}$., then $: 300.6$ $\mathrm{m} . \mathrm{m}$. which is the extent which the visual line is lengthened in $M 2 \mathrm{D}$.

## Advertising.

## Practical Hints on Advertising.

By Chakles Austis Baths, Dicw Vork
There is no use in printing advertise. ments that people don't believe. The only way to make people believe advertisements is to make them true. It doesn't take a woman long to sort out the truthful stores. There are stores in New York that are undoubtedly making some mone;, although they have more or less of a reputation for untruthfulness in their adverusing. But the stores that are making the biggest success are the ones that keep closest to the trati. I am not a moralist, and so ha:en't anything to do with the ethics of the case-the wings on $m y$ shoulders are not sufficiently developed to interfere with the fit of my coat-but I look at this matter of trubhfulness in advertising from a purely business standpoint.

My old Spencerian copy-book used to say "Honesty is the best policy." I didn't know what it meant when I was writing it, but the more I lear: about advertising the more I appectate this old saying.

A man came to me the other day for a criticism of a circular concerning a certain article. He made a number of very strong claims for the article, and at the end of the circular made the statement that if the article didn't do exactly what it was claimed to do it might be returned and the price paid for it would be refunded. He wanted to scratch that last part out. I told him that his article was either good or bad. If it was bad he ought not to try :o sell it; if it was good it would stand the guarantec. If he was telling the truth when he described the article he would never be asked to refund a cent of money. If he wasn't telling the truth he would have to refund the money anyway. If a man claims that an article is a certain thing, or that it will do certain things, and upon trial those claims are proved false, the purchaser is going to bring the article back and demand his money.

And he is going to get it, if he has
back-bone enough to stick up for his rights.
When one man sells another one a bogus gold brick the transaction is called a "bunco game" or a "confidence game." A more euphonious title for similar transactions is " obtaining money under false pretences." Unreasonable policemen and inconsiderate judges have been known to send men to the penitentiary for these little irregularities.

Now, I camot see very much difference between selling a man some ordinary article of merchandise under false representations and selling him a gold brick under false representations. I don't believe that either transaction is conducive to permanemt trade in the immediate localty where it occurs. I am afraid that the bunco :xemteman would find it pretty hard to dispose of a second gold brick in the same neighborbood. I leelieve it is pretty hard to get a woman back to a store where she has been badiy treated-I won': say " buncoed," because 'hat might hurt somebod,'s feetings.

One trouble is that a great many peo-ple-advertisers included-have a sort of sneaking notion that advertising is a fake anyway, and that honestyandadventising is entirely different from honesty in other transactions. A man who wouldn't think of lying in his dally intercourse with other men, thinks it is perfectly legitimate to stretch the truth a litte bit in his advertising. Fortunately for the future of advertising these men are becoming beaut. fully few. I suppose that the men in Philadelphia who say without reserve that the Wanamaker ads are lies would be glad to take John Wanamaker's personal word for anything he might promise them. That would be "different." Just why, nobody knows.

I believe there are a number of business men who think that the advertise-ment-writer proposes to write advertisements out of his inner consciousness, with utter disregard of the business in hand. The case of the adveruser must
be explained to an ad writer just as the case in law is explained to the lawser. A lawyer maynot know the first thing about steam boiters, and yet he may be called totry a case in which a knowledge of steam boilers is necessary. He gets this knowledge from his client and from such other sources as are accessible. It is the same way with the advertisement-writer. He gets all the information he possibly from bis client. He studies the advertising his client has done. He makes use of all the good points which his client has made in the past. His business is to take these points and sharpen them and to add other points if he can.

The advertisement-writer cannot undertake to give an advertiser something entitely and distinctly new and different from anything he has had before. His proposition is simply to prepare good advertising mater that will help, in the sale of goods. In the preparition of effective copy he has the advantage of the advertiser because he has the advertiser's best efforts to work on. It is presumed that the advertiser has done the very best he could and has put all he knew into the advernsement betore called unon the professional adsertisemem writer. The advertiser and the writer would both be very foolish if they didn't make use of the advertiser's knowledge.

The advertisement-writer's work is to present the actual facts about a business in an agreeable manner. Of course, he he has io know what he is writing about, and there is no better place to find this out than from the owner of the business.
I)r. Hamill wishes us to emphasize the fact that he has some very desirable drug busmesses for sale, some 26 all told. (a) One in county Huron, town, 3,000; 3 stores; stock, $\$ 3,000$; sales, $\$ 15$. (b) Toronto, stock, $\$ 2,000$; sales, $\$ 10$. (c) North-west Teritor;, population, 1,500; one oppostion; stock, $\$ 3,000$; sales, $\$ 15$. (d) County of Leeds, town, 4,000; stock, $\$ ., 4,000$; sales, \$20. (e) British Columbia, population, foo; stock, $\$ 1,000$; sales, $\$ S$. ( $f$ ) Middlesex county, population, 1,200 ; stock, $\$ 2,000$; sales, $\$ 13$. (s) Oxford county, population, 3,000; stock, $\$ 3.700$; sales, $\$ 12$. (h) County Bruce, population, 1,400; stock, $\$ 3,000$; sales, $\$$ io. ( $k$ ) County of Lincoln, population, 10,000; stock, $\$ 4,000$; sales, $\$ 15$.

## YOUR

## Prescription Work

SHOULD BE
Accurately Executed,
SHOULD BE

## Promptly Returned,

SHOULD BE SENT TO

## COHEN BROTHERS,

The only Manufacturers of
Gold and Gold Filled Spectacles and Eye-Glasses in the Dominion of Canada.

FLUID
CASCARA
AROMATIC
(SCOTT \& Mcilll.LAN)
NOW
The....

## HOLGATE FIELDING CO., <br> LIMITED

The attention of the trade is called to the fact that the S. © M. pharmaceutical specialties are now carried in stock by all wholesalers.

Particular attention is called to the above, which is now being detaied.

## Always carry it in stock

SEND FOR PRICE LIST

## The Holgate, Fielding Co., Limited

 25 Melinda St., TORONTO

# A Good Deal of Noise for Ten Cents 



I have a couphe of large mailing cards, nine
They go through the mails with a one-cent
They are printed in three colors.
For identification in this office they are called:
"The Tiger Card."
They ase the noisiest things that ever went
If you send for them you can hear them coming
whene

## Charles Austin Bates

## Formulary

## BARIBER'S STYPTLC POWDER.

The majority of the preparations upon the market contain tannic acid, alum, sub. sulphate of iron, or some other astringent substance, which, when applied, will arrest local bleeding. Here are two formulas which are said to be serviceable:

```
1.-Alum
    Nuugalis
    Acacia...................
    Gum benzoin.............equal parts.
    Powder each separately and mix.
```

2.-Alum.... .... ...........
Gum tragacanth.............
Tannic acid................equal patts.
Powder and mix.
shampoo powder.
Sodii bicarb........................ 4 ozs.
Sodii biborat............................ 4 ozs.
Pulv. saponis.......... . . . . . . 4 ozs.
Plulv. curcuma........... . . . . . . I dr.
Ol. geranii........................ 20 m .
Of. verbena..................... 5 m m.
Mix. Weigh up into three-quarter ounce packets.-Chem. and Drug.

## ANTISEPTIC SHAMPOO.

Ammonium sarbonatc. ........... \& oz.
Boracic acid....................... I oz.
Distilled waser..... ............. 1 pt .
Glycerin........................... 4 ozs.
Bay rum.......................... 1 ...
This is as effective as the stronger potash or soda mixtures.

## SKIN FOOD.

Any of the cold creams may be sold under the name of "Skin Food"; the following is said to be the furmula of one that has some sale :


Melt the paraffin, add the petrolatum and lanolin, pour into a warm mortar and with constant stirring incorporate the water and the perfume.
If the preparation is to be tinted red use alkanet root, and an amber colored petrolatum may be employed instead of white.

## MOUTH-WASH TABLETS.



## meycle tires, cement for.

The following formulas have been pub. lished in The Standard Formulary as re. liable cements for bicycle tires :
Take of
Caoutcho::c (in fine shreds).. 2 ozs. av.
Resin.......................... 140 grains.
Shellac ...................... 100 "
carmon disulphide, sufficient to dissolve the other ingred. ients.......................
A very good cement can be obtained by placing pulverized shellac in ten times its weight of stronger water of ammonia. The shellac becomes soitened, a viscid, transparent mass resulting, which after standing three or four weeks will liquefy. The glue is always ready for use, but in cold weather it is necessary to soften it by placing in hot water.

SODIUM PERORIDE AS BLEACHING AGENT.
The most practical solutions are one composed of:
Parts.
Sodium peróxide.....................
Magnesium sulphate............... 3
Water............................ 95
And another, composed of :


For bleaching straw a solution containing oxalic acid has been found useful.Studd. $1 p$. Ztg.

## DENTIFRICE FOR DARK ENAMEI.

The following is a dentifrice recommended for the use of persons the enamel of whose teeth has become discolored.


## transparent china cement.

|  | Ounce. |
| :---: | :---: |
|  |  |
| Water... |  |

Soak the isinglass in the water overnight, add the acid, and heat till clear.Chem. and Drug.

PROCESS FOR SYRUP OF SENEGA.
Tahe of senega root, 10 troy ounces; stronger ammenia-water, 3 fluid drachms; alcohol, 4 fluid ounces; water, 20 fluid ounces. . Macerate in a closed vessel for three days, express and strain, return the dregs and remacerate with stronger ammonia, I fluiu drachm; alcohol, 4 fluid
ounces; water, 16 fluid ounces. Express and strain as before. Mix the two decantates, add I ounce of precipitated chalk, filter, and pass enough water to complete 25 fluid ounces. Percolate this through 38 troy ounces of sugar, and make up to 48 fluid ounces.

MOTH DESTROVING SOLUTION.
Disselve 20 parts of naphthalin, 20 parts carbolic acid, and 50 parts camphor in a mixture of 50 parts oil of turpentine and 850 parts 90 per cent. alcohol, then add 5 parts each of oil of mirbane and oil of patchouli. The solution is used as a spray.—Drug. Zei.

## RUBBER CEMENT FOIL CYCLES.

Parts.
Fish glue
Pars

India subler. . . . . . . . . . . . . . . . . . . . . . . . . . . 4
Bisulphide of carbon........................ 32 -Brit. and Colo. Drug.
Terebene-glycerine is prepared by mising 7 parts glycerine, 4 parts terebene, and i part water, and shaking the mixture thoroughly with frequent exposure to air, until the separating glycerine remains turbid upon standing. This produet is em. ployed for purulent wounds and applied by coveing the wounds with cotton or gauze saturated with it.-Ph. Past.

Laxative remedies.-ladative tea.
Senna, cut.................... 8 av. oz.
Couch grass, cut............ 4 av. oz.
Frangula, cut............... 4 av. oz.
Fennel seed, bruised.........1/2 av. oz.
Mix. This may be sold when German herb tea, cathartic or laxative tea are called for. Directions: From one-half to a teaspoonful of the species to a cupful of boiling water, this to be taken at bed. time.

WINE OF CINCHONA.
The following formula is given by Dr. G. Romijn :

Powdered cinchona bark. .. : 10 parts.
Ifydrochloric acid ( 146 parts for every 310 parts alkaloids).
Alicohol. ....... .. .......... 14 parts.
Sugar . ........................ 25 parts.
Water, sufficient to make.... ico parts.
Dissolve 5 parts of sugar in a mixture of the alcohol, two-thirds of the acid, and enough water to make 40 parts; percolate the powder with this menstruum in the usual manner; continue the percolation with a mixture of 20 parts of water and the remaining acid and finish with water. Separate the first 75 parts of percolate, dissolve in it the remainder of sugar, and make up to 100 parts with the succeeding percolate.-Phar. Weekblad.

By far the best advertised brands at present before the public

## The Canadian Cigar Co., manufacturers Torontos Ont.

Amongst Our Advertisers.

## An Old Friend

Our uld friend Tangle.foot makes its bow to our readers in this number, introducing itself for the season of ' 98 . No words of commendation are necessary for an article 50 well and favorably known to the trade. Read the advertisememt, ibere is something in it for you.

## Have You a Camera?

If not, there is no reason why you should not, at the price offered by the Vive Camera Co. in this issue. Read their 'full page announcement. It is interesting and valuable to all dealers in photographic supplies, and to amateur photographers.

Extension of Time.
Messrs. Powell \& Davis announce that the time has been extended for taking advantage of their spectal offer on "Fly Felts." Now is the time to crder. Read the adv.
J. Hungerford Smith Co., on page 76a this issue, make some important announcements to the drug trade. both in reference to their fly papers and their celebrated fruit juices and flavors. If you want any goods in these lines be sure to communicate with this firm.

## Maypole Soap.

Most gratifying results are reported as to the introduction of Maypole soap, the wonderful home dyes There can be no doubt as to the sale of these goods, winich are so liberally advertised and give such satisfactory results. We are informed that in Australia alone 12,000 gross of these goods were sold last year. Three
additionai colors are now being added to the lines already mentioned in these columns. Send a trial order to Arthur P. Tippet \& Co., Montreal.

## Perfect Mucilage Bottle.

The "Perfect" Mucilage botle illustrated herewith is recommended as among the best containers for mucilage paste on the market. It is made of aluminium on

the principle of a glue pot, having a water reservoir and vapor chamber absolutely preventing the contents from thickening or clogging upat the mouth. They retail at fifty cents each, and the tradecan procure them from Buntin, Gillies \& Co., Hamilton.

## Fly Pads.

Messrs. Archdale Vilson \& Co., of Hamilton, intend spending a very large amount of money this season in advertising lly pads in family journals and have no doubt that the increased de. mand will this jear be much larger than ever before.
So far the output of fly pads has increased almost every year since their introduction nearly twenty years ago, and at present the sale of fly pads is much larger in Canada than all other forms of fly poisons put together.

To Polish Aluminium.-Gray or unsightly aluminium may be restored to its white color by washing with a mixture of 30 grams of horax, dissolved in 1,000 grams of water, with a few drops of ammonia added.

## WANTS, FOR SALE, ETC. •

Advertisements under the head of limsiness Wanted Situations Wranted, Situations Vacank, Musiness for Sule, eic., will be inserted once free of charge. An sivers must not be sent in cutre of this ofice untes poelagestamps are formardel to re-mitil ienties.

SITUATIONS WANTED.
POSITION WANTED IH A ladVY DRUGGIST having six years' eaperience as dispencer and general clerk. Gucd references given. Address M. Gibson, Bor 331, liellevilie.
Vanily -i POSITION ISY A YOUNG MAN Pharnary (1897), and having the degree of Phm, B3. (Tor.) Evcellemi recommendations and zeferences can be funished concerning dispensing: busitess principler, sood habis, etc. Address 11 . I:. Woudland, $3^{8}$ liescerer itreet, Olsama, Ont.

SITUATIONS VACANT.
PUSICLAN WANTED INA MONTANA. U.S.A.
minime camp of zu.00 inhabindurst, Write for particulacs. Address Martin C. Juiian, Beli, Mont.

## FOR SALE.

FOR SALE-WELLASSORTED STOCK OH
Druga and Stationery: atout $S_{2,000}$, in one of ths beot villages in Ontario. Thriving business done. Good rearons for velling. Address "Drugs," 177 Emerald
ctreet north, Dinmilton, Ont. ctreet north, Hamilton, Ont.

## Toll wolicit <br> your Trabe

We offer a well-assorted stock of<br>Drugs<br>Chemicals<br>Patent<br>Medicines<br>Perfumery<br>Toilet Articles<br>etc.<br>CAI.l. AND SEE US<br>JAMES A. KEMMEDY \& CO.,<br>wholesale oruggists

423 Richmond St., LONDON, Ont.

# com SEELY'Seor <br> Not a Common Mixture, but made from a formula of great merit..... <br> Put up in 25c. and 50c, sizes <br> <br> \section*{CEEBRATED} <br> <br> \section*{CEEBRATED} <br> <br> SEELY $\overbrace{\text { The American Perfumer }}$ <br> <br> SEELY $\overbrace{\text { The American Perfumer }}$ <br> Detroit, Гlich., U.S.A. 

## CANADIAN DRUGGIST PRICES CURRENT

| The quotations given represent avetage prices for quantities usually purchased by Retail Dealers. |  |  |
| :---: | :---: | :---: |
| larger parcels may be obtained at lower figures, |  |  |
| but quantities smaller than thos | ¢ nat: | d will |
| mand an advance. |  |  |
| Alcohol, |  | \$5 |
| Methyl. |  | 200 |
| Aillspice, it | 13 | 15 |
| Powdered, | 15 | 17 |
| LOIS, oz | 40 | 45 |
| ANODYNE, IMofman's bot., lhs. | 50 | 55 |
| Arrowroot, Bermuda, it. | 40 | 45 |
| St. Vincent, ib. | 15 | S |
| Balsam, Fir, lb | 45 | 50 |
| Copaiba, Ib | 70 | 5 |
| Pera, lb. |  | 350 |
| Tolu, can or less | 70 | 75 |
| Bark, Barberry, | 22 | 25 |
| Baybersy, db. | 15 | 15 |
| Ruckthorn, 1 | 15 | 17 |
| Canella, Ib | 15 | 17 |
| Cascara Sagrada | 25 | 30 |
| Casarilla, select, | 18 | 20 |
| Cassia, in mats, lb. | 18 | 0 |
| Cinchona, red, | 60 | 65 |
| Powdered, | 65 | 70 |
| Yellow, it | 35 | 40 |
| Pale, 16 | 40 | 45 |
| Elm, selected, | 18 | 0 |
| Ground, lb. | 17 | 20 |
| Powdered, 1 | 20 | 28 |
| Ilemlock, crushed, It | 18 | 20 |
| Oak, white, crashed 1 | 15 | 17 |
| Orange peel, bitter, lb | 15 | 10 |
| Prickly ash, db. | 35 | 40 |
| Sassafras, lb. | 15 | 16 |
| Soap (quillaya) |  | 15 |
| Wild cherry, 16 |  | 5 |
| Beans, Calalar, I | 45 | 50 |
| Tonka, Jb.. |  |  |
| Vanilia, 1 b |  |  |
| Berrits, Cubeb, sifted, | 20 | 25 |
| juniper ib powdered, | 25 | 30 |
| Juniper, lb. | 7 | 10 |
| Ground, 11 | 12 | 14 |
| Prickly ash, lb | 40 | 45 |
| Buds, Balm of Gi | 55 | 6 |
| Cassin, 16. | 25 | 30 |
| Butter, Cacao, | 60 | 65 |
| Canchior, lb. | 50 | 55 |
| Cantharides, Russian, |  | 150 |
| Powdered, Ib |  |  |
| Capsicum, ib | 25 | 30 |

## Corrected to April 11th, 1898.

| jowdered, lis |  | \$ 35 |
| :---: | :---: | :---: |
| Carbos, Bisulphide, lb.. | 15 | 16 |
| Carmine, No. 40, oz. | 40 | 50 |
| Caston, Fibre, lo | 2000 |  |
| Chatre, French, powdered, | 10 | 12 |
| 1recip., see Calcimm, 1 l | 10 | 12 |
| Irepared, ib........ | 5 |  |
| Charcoal., Animal, powd. | 4 |  |
| Willow, powdered, 16. | 20 | 25 |
| Cl.ove, ll . | 16 | 7 |
| ?owdered, 1b | 17 | 4 |
| Cochisisal, S.G., ib | 40 | 45 |
| Colmomion, lb.. | 75 | So |
| Cantharidal, 1 l |  |  |
| Conrecerios, Senna, lb | 40 | 45 |
| Creosore, Wood, 13.... |  | 250 |
| Cuttleresh l3one, Il | 25 | 30 |
| Dexirine, lb. | 10 | 12 |
| DOVEr's l'owiber, li | 150 | 160 |
| Ergot, Spanish, 1 l . | 75 | So |
| Powdered, lb . | 90 |  |
| Ergotin, Keith's, oz | 200 |  |
| Extract logwoon, bulk, l | 13 | 14 |
| Pounds, 16 | 14 | 17 |
| Flowers, Amica, | 15 | 20 |
| Calendula, lib.. | 55 | 60 |
| Camomile, Roman, | 25 | 30 |
| German. 1b... | 40 | 45 |
| Elder, 16. | 20 | 22 |
| Lavender, ib. | 12 | 15 |
| Rose, red, French, | 160 | 200 |
| Rosemary, 1b..... | 25 | 30 |
| Saffron, imerican, li. | . 65 | 70 |
| Spanish, Val'a, oz. | 100 |  |
| Gelatine, Cooper's, Ib | 75 | So |
| Frerch, white, ib | 35 | 40 |
| Gimcerine, lb.. | 17 | 20 |
| Guarana.. |  | 150 |
| Powdered, lb. |  | 175 |
| Gum Ators, Cape, li. | IS | 20 |
| Barbadocs, 16. | 30 | 50 |
| Socotrine, 1b. | 65 | 70 |
| Asafoctida, 16 | 40 | 45 |
| Arabic, ist, lb | 70 | 75 |
| Powdered, 1 b . | 80 | 95 |
| Sifted sorts, ib | 45 | 50 |
| Sorts, 1b.. | 30 | 35 |
| Benzoin, lb..... | 50 | $1 \infty$ |
| Catechu, Black, Ib | 9 | 20 |
| Gaminge, powdered, ib |  |  |
| Guaiac, Ib..... | 50 | 100 |
| Powdered, 16. | 90 | 95 |
| Kino, true, lb. | 425 |  |



| Senua, Alexandria, Ib. . . . . . \$ | 25 \$ | 30 | Queen of the Meadow, H.... | \$ iS \$ | 20 | Valcriamate, oz. . . . . . . . . . . . \$ |  | 60 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| linnevelly, Ib............... | 15 | 25 | Khatamy, Ib .............. . | 20 | 30 | AmPl., Nitrite, oz. | 6 | 18 |
| Stramonium, it | 20 | 25 | Rhubarb, II | 75 | 250 | Antinickvin, oz. | S5 | 0 |
| Uva Ursi, 1b | 15 | 15 | Sarsaparilli, Ilond, lb. ....... | 40 | 45 | Antikamma. | 130 | 135 |
| Lesechins, Swedish, doz | 100 | 110 | Cut, Ib..................... | 50 | 55 | ANimprin, oz | 10 | 120 |
| I, icoricr, Solazzi..... | 45 | 50 | Senega, 11 | 55 | 65 | Anisiol., 02. | S5 | 200 |
| pigaatelli... | 35 | 40 | Squill, !l | is | 15 | Ansisic, Donovan's sol., lb..... | 25 | 30 |
| Grasso... | 30 | 35 | Stillingia, | 22 | 25 | Fowler's sol., 16...... ....... | 10 | 13 |
| Y \& S-Sticks, 6 to 11 lb ., per lb. | 27 | 30 | Powdered, | 25 | 27 | Iodide, oz. | 50 | 55 |
| "P Purity, 100 sticks in box | 75 | 75 | Unicorn, 11. | 35 | 40 | White, lb....... ............. | 6 | 7 |
| " Purity, 200 sticks in box | 150 | 150 | Valerian, Euglish, 1 | 20 | 25 | Atromine, Sulp, in el ozs. Soc., |  |  |
| " Acme lecllets, 5 lib. (ins | 200 | 200 | $V$ Virginia, Snake, $\mathrm{ll}^{\text {, }}$ | 40 | 45 | 02 | 600 | 625 |
| " Lozenges, 5 ll . tins. . | 200 | 200 | Yellow Dock, 11 | 15 | 15 | Bismuth, Ammonia-citrate, oz | 40 | 45 |
| " Tar, licorice, and Toln, |  |  | Rum, lay, gal.. | 250 | 275 | lodide, oz............. . . . . | 55 | 60 |
| 5 lb. tins......... | 200 | 200 | Essence, | 300 | 325 | Salicylate, oz. | 25 | 30 |
| Lutulin, oz............. | 30 | 35 | Saccmanin, oz | 125 | 150 | Subcarbonate, | 20 | 225 |
| Lrcoromins, ib | 70 | 8 c | Skel), Anise, lialian, sifted, It. . | 13 | 15 | Subnitrate, ll | 180 | 200 |
| Macts, lb... | 20 | 125 | Star, lb. | 35 | 40 | Howas, Ils. | 7 | 8 |
| Mansa, lb | 160 | 175 | 13urdock, lis. | 30 | 35 | Powilered, 16 | \$ | 9 |
| Moss, Iceland, ib | 9 | 16 | Canary, bag or | 4 | 5 | Bromish, ${ }^{\text {d }}$ | 8 | 13 |
| Irish, Ib..... | 12 | 13 | Caraway, Ib. | 10 | 13 | Cabmilam, Bromide, | 20 | 25 |
| Musk, Tonquin, oz.. | 4600 | 5000 | Cardamom, 16 | 115 | 125 | lodide, 02. | 45 | 50 |
| Nutgalss, ib.. | 21 | 25 | Celery .... | 25 | 30 | Caffrine, oz | 55 | 60 |
| Powdered, 11 | 25 | 30 | Colchicun | so | 60 | Citrate, oz. | 35 | 40 |
| Nutmess, lb. | 00 | 110 | Coriander, | 10 | 12 | Calcium, Hypophosphite, | 150 | 160 |
| Nux Vomica, il | 10 | 12 | Ctumin, 16 | 15 | 20 | Iodide, oz. | 95 | 100 |
| Powdered, itb. | 20 | 25 | Fennel, ib | 15 | 17 | Phosphate, pre | 35 | 38 |
| Oakum, lb.. | 12 | 15 | Fenugreek, powdered, Ib.. | 7 | 9 | Sulphide, oz. | 5 | 6 |
| Onsmmat, Merc., lb. $1 / 2$ and $1 / 2$ | 70 | 75 | Flax, cleaned, lb. | 31 | 4 | Crrium, Oxalate, | 10 | 2 |
| Citrine, lb........... | 45 | 5 c | Ground, | 4 | 5 | Cimmomins, oz. | 15 | 0 |
| Paraidehiodes, oz | 20 | 22 | 1 emp, 1b. | 31/2 | 4 | Cill.oral., Mydrate, | 125 | 138 |
| Peprer, black, lb | 13 | 16 | Mustard, white, | 11 | 12 | Croton, oz. | 75 | 80 |
| Powdered, 16. | 16 | 15 | Powdered, lb | 15 | 20 | Chloroform, ll | 60 | 90 |
| Pltca, black, lb.. | 3 | 4 | Pampkin | 25 | 30 | CinchoniNe, sulphate, | 25 | 30 |
| Bergunds, true, 11 ....... | 10 | 12 | Quince, ll | 65 | 70 | Cinchonibine, Sulph. | 28 | 30 |
| plaster, Calcined, bjl. cash.... | 125 | 325 | Kape, Ib. | 5 | 6 | Cocalnt, Mur., oz. | 400 | $+50$ |
| Arthesive, yd | 12 | 13 | Strophanthus, | 50 | 55 | Codria, $\frac{1}{6}$ oz | 75 | 80 |
| Belladonna, lb | 65 | 7 c | Worm, ib .. | 22 | 25 | Cominomiox, Ib.............. | 65 | 70 |
| Galbanmm Comp., is | So | 85 |  | 25 | 30 | Corphr, Sulph., (Blue Vitriol) Ib. | 6 | 7 |
| Lead, lb. . . . . . . . . | 25 | 30 | Soap, Castile, Mot:led, pure, 11. | 10 | 12 | Iodide, oz . . . . . . . . . . . . | 65 | 70 |
| Poppy lleads, per 100. | 00 | 110 | White, Conti's, lb........ . | 15 | 16 | Corpreas, 1 |  |  |
| Rosin, Common, it. | 21 | 3 | powdered, 16 , | 25 | 40 | 1) URETIN, oz | 60 | 55 |
| White, Ib. | 35 | 4 | Cireen (Sapo Viridis) | 25 | 40 | Erimer, Acetic, | 75 | 80 |
| Resorcis, white, | 25 | 30 | Spermacert, b | 60 | 65 | Sulphuric, 1b | 40 | 50 |
| Rochelele Sar. ${ }^{\text {d }}$ | 25 | 28 | Turrasuise, Cb | 75 | So | ENat.gine, oz. | $1 \infty$ | 10 |
| Root, Aconite, ${ }^{\text {b }}$, | 22 | 25 | Venice, 1b | 10 | 12 | Hyoscramise, Sulp., crystals, gr. | 25 | 30 |
| Alhea, cut, lb. | 30 | 35 | Was, White, | 50 | 75 | lomish, lb. ........ .......... | 450 | 500 |
| Belladonna, Ib. | 25 | 30 | Yellow. | 40 | 45 | Ionororm, lb. | 525 | 550 |
| Blood, lb.. | 15 | 25 | Wood, Guaiac, rasp | 5 | 6 | 10not., oz. . . . . . . . . . . . . . . . . . | 140 | 150 |
| Bitter, 1b.. | 27 | 30 | Quassia chips, 11 | 10 | 12 | Iros, by IIjdrogen........ ..... | 80 | 85 |
| Blackberry, ib. | 15 | 15 | Fed Saunders, ground, | 5 | 6 | Carbonate, P'recip. | 15 | 16 |
| 13urdock, crushed, 11 | 18 | 20 | Santal, ground, lh.... | 5 | 6 | Sacch., 1b. . | 30 | 35 |
| Calamus, sliced, white, II | 20 | 25 | chemicals. |  |  | Chloride, Ib. | 45 | 55 |
| Canada Snake, It .... | 30 | 35 | chemicais. |  |  | Sol., lli. | 13 | 16 |
| Cohosh, black, It | 15 | 20 | Acib, scetic, | 12 | 13 | Citrate, U.S.P., Ib | 90 | 100 |
| Colchicum, 1 h , | 40 | 45 | ( ${ }^{2}$ acial, Ib | 45 | 50 | And Ammon., 16 | 70 | 75 |
| Columbe, li . . . . . . . . . . . . . | 20 | 22 | Benzoic, Englis | 20 | 25 | And Quinine, 16. |  | 300 |
| Powdered, it. | 25 | 30 | German, oz. | 10 | 12 | Quin. and Sty, , 02. | 18 | 30 |
| Coltsfoot, 11 | 35 | 40 | Boracic, IL.. | 12 | 13 | And Strychnine, oz......... | 13 | 15 |
| Comfrey, crushed, It. | 20 | 25 | Carbolic Crystals, ib | 30 | 35 | Dialyzed, Solution, l6....... | 50 | 50 |
| Curcuma, powdered, 16. | 13 | 14 | Calvers's No. 1, lb | 210 | $=15$ | Ferrocyanide, 1b. | 55 | 60 |
| Dandelion, li.. | 20 | 22 | No. 2, lb | 135 | 140 | 11ypophosphites, oz. | 25 | 35 |
| Elecampane, | 15 | 20 | Citric, lb. | 45 | 50 | todide, oz.... . . | 40 | 45 |
| Galangal, 16.. | 15 | 18 | Callic, oz... | 10 | 12 | Syrup, th.. | 40 | 45 |
| Gelscniam, lb. | 22 | 25 | Hjdiobromic, diluted, lla...... | 30 | 35 | Imatate, oz.. | 5 |  |
| Gentian or Gienitan, lb | 12 | 13 | Ilydrocyanic, diluted, oz. bottles |  |  | Pernitrate, solution, lb | 15 | 16 |
| Ground, 16... | 13 | 14 | dGz. | 150 | 160 | Phosphate scales, th. . | 125 | 130 |
| Powdered, 16. | 13 | 15 | Lactic, concentrated, oz...... | S | 10 | Sulphate, pure, Ib. |  |  |
| Ginger, African, | 15 | 20 | Muriatic, ib ......... ...... | 3 | 5 | Exsiccated, (1). | 8 | 10 |
| Po., ib | 20 | 22 | Chem. pure, ll................ | 15 | 20 | And Potass. Tartrate, lb... | 80 | 85 |
| Jamaica, blehd., ib......... | 27 | 30 | Nitric, $1 \mathrm{~b} . .$. | $10 \frac{1}{2}$ | 13 | And Ammon Tartrate, lb. .. | 80 | 85 |
| Po., lb.................. | 30 | 35 | Chem. pure, ilb. | 25 | 30 | Lean, Acetate, white, H........ | 13 | 15 |
| Ginseng, ib. | 450 | $+75$ | Oleic, purified, | 75 | 80 | Carlonate, llb. . . . . . . . . . . . . . | 7 |  |
| Golden Seal, 1 h | 75 | 80 | Oxalic, lis............... | 12 | 13 | Iodide, oz | 35 | 4 |
| Gold Thread, lli............... | 30 | 95 | Phosphoric, glaciảl, lh........ | $1 \infty$ | 110 | Red, lb.................... | 7 | 9 |
| Hellebore, white, powd., it | 14 | 16 |  | 13 | 17 | Lime, Chlorimated, bulk, lh..... | 4 | 5 |
| -Indian Ilemp................. | 18 | 20 | Pyrogallic, 02 | 30 | 35 | In packages, lb | 6 | 7 |
| Ipecac, lb........... | 240 | $=50$ | Salicylic, white, ib........... | 75 | 80 | Lithius, Bromide, | 33 | 35 |
| Powdered, li. . . . . . . . . . . . | 250 | 275 | Sulphusic, carboy, lb. . . . . . . | 2 | $2 \frac{1}{5}$ | Carbonate, oz. | 30 | 35 |
| Jalap, lh........................ | 40 | 45 | 13onles, lb.. | 18 | 5 | Citrate, oz. Iodide 0 az | 25 | 30 |
| Powdered, lb.............. Kava Kava, ib........... | 60 40 | 65 90 | Chem. pure, li Tannic, lb. | 18 | 20 35 | Iodide, oz. . . . . . . . . . . . . . . . . . <br> Salicylate, oz. | 50 | 55 |
| Kava Kava, lh....... ......... <br> Licorice, lb. | 40 | 90 |  | 80 | S5 | Salicylate, oz................ | 35 | 40 60 |
| Licorice, Ib......................... Powdered, $16 . . . . . . . . . . . . ~$ | 12 | 15 | Tartaric, powdered, 1 l . Aこeranilid, lb. | 3 3 | 40 | Magnasius, Calc., lb..... .... Carbonate, Ib | 55 18 | 60 20 |
| Powdered, $16 . . . . . . . . . . . ~ . ~ . ~$ | 13 | 15 | AこrtaNil.id, lb | $70$ | 15 | Carbonate, lb. | 18 | 20 |
| Mandrake, lb............. .. | 13 | 18 | Acositine, grain.......... | 4 | 5 | Citrate, gran., lb | 35 | 40 |
| Masterwort, lb | 16 | 40 | Al.um, cryst. Ib............ | 18 | 3 | Suph. (Essom sall), lb. ...... | 13 | 3 |
| Orris, Florentine, 16. | 30 | 35 | Powdered, lb ........... | 3 | 4 | Masganest, Black Oxide, lh... | 5 | 7 |
| Powdered, Ib ... | 40 | 45 | Asmonia, íquor, lb., S80. | 10 | 12 | Mentuol, oz................... | 25 | 30 |
| Parcira Brava, true, lb | 40 | 45 | Amsonium, Bromide, lb. | 80 | 85 | Mercurs, lb................... | 75 | 80 |
| Pink, 16 | 40 | 45 | Carbonate, lb,............... | 14 | 15 | Ammon: (White Y'recip.) | 125 | 130 |
| Parsiey, 16 | 30 | 35 | lodide, or.. ...... | 35 | 40 | Chloride, Esrrosiv | 90 | 100 |
| Pleurisy, 16 | 20 | 25 | Nitrate crystals, lb........... | 40 | 45 | Calomel, ib.... | 05 |  |
| Poke, 1b | 15 | 18 | Muriate, lb | 12 | 16 | With Chalk, lb. | 50 | 55 |

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1. Lighe Brown Varnish-

Refined pale shellac........ 5 parts.

2. Dark Brown VarnishRefined dark shellac........ 10 parts. Turpentine................... 5 " Spirits of wine ............. 34 "
3. Whate Varnish (a)Bleached shellac ..... ..... II parts. Turpentine .... ..... ..... 5 " Spirits of wine............. 35 "
4. White Varnish in)Sandarach.................. . 10 parts. Turpentine. ............. 7 " 95 per cent. Pish for Full Calr Extra
5. Shellach for Full Call Extra-.................... S parts. Sandarach................... 8 "
Mastic drops................ 2 "
Turpentine. .............. ${ }^{2}$
40 per cent. spinis of win. . 60
Brush lightly over the book.


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| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 13in., oz. | 25 | 30 | Salicylate, lis | 100 | 110 | Rose ll | 320 | 350 |
| Oxide, Red, Il | 115 | 120 | Supphate, lb. . . . . . . . . . . . . . | 2 | 5 | Juniper berries (English), Ib... | 450 | 550 |
| lill (Blue Mass), th | 70 | 75 | Sulphite, lt. . .. ............. | S | 10 | Wood, Ih,......... .. | 70 | 70 |
| alnek Sugate, powdered. It | 30 | 35 | Somsis. of.. | S5 | $\infty$ | l.avender, Chiris. Fleur, lh.... | 300 | 355 |
| Monmunit, scetatc, oz . | 175 | 150 | Sparis Nint, lb. | 3 S | 68 | (iarden, 13 | 75 | 150 |
| Muriate, oz. | 175 | 1 So | Srrosisum, Nitrate, ib | 15 | 20 | [.emon, lb. | 175 | 190 |
| Sulphate. oz. | 150 | ${ }_{1} S_{5}$ | Samanishe, crysias, ${ }^{\text {at }}$ | So | 55 | Lemongtass, Ih. | 150 | 100 |
| frashi, Snclhatated, or | 35 | 40 | Suntosat., 0z... | =S | 30 | Mustari, Esomant, os. | 60 | 60 |
| Pumancerave, oz. | 35 | 40 | satirteri, flowers of, lt | 21 | 4 | Nicroh, ar. ... | 425 | 460 |
| Phoocatimit, Mtriate, grain | 17 | 1 S | Pure preciputated, 1 l , | 13 | $=0$ | Urange, ${ }^{1 /}$ | 235 | 375 |
| P1ptekis, oz .... | 100 | 110 | Tatmer Embat, 16 | 50 | 55 | Sweet, It | 275 | 300 |
| Phosinokus, 16 | 90 | 110 | THsmot (Thymic aedd, w? | 55 | 60 | Organam, lts | 65 | 5 C |
| Porassa, Canstic, white, lf. | 60 | 65 | Veliatmine, oz... | 20 | 210 | Patchoula, or | 80 | 50 |
| bopasidum, Acetate, lb.. | 35 | 20 | Aive, Acetate 11 | 70 | 75 | lenayrogal, it, | 250 | $=05$ |
| licarhonate, Ib. | 15 | 17 | Carhonate lt | 25 | 30 | Peppernimi, lh. . ....... | 225 | 207 |
| Bichromate, 1 l | 14 | 15 | Chlorate, hramular, or. . .. | 13 | 15 | limiento, it . .... | 200 | 205 |
| Biarat (Cream Tatt.), 11 | 25 | 25 | Iodide, ox. ....... | 60 | 65 | Khodhum, 02 | So | S5 |
| Bromide, lla.. | 70 | 75 | Oxide, lis | 13 | 60 | Ruse, on. | 750 | 1130 |
| Carlomate, Ib. | 12 | 13 | Supphate, lla.... | 9 | 11 | Kosemary, lb. |  | 50 |
| Chlorate, Eng., 1 | 15 | 20 | Valerianate, or. | 25 | 30 | Kuc, oz... | 25 | 50 |
| lowdered, ib. | 20 | z2 |  |  |  | Sandahrood, 1 h. . | 550 | 770 |
| Citrate, lla.. | 70 | 75 | -inlut. Olls. |  |  | Sassafras, 1b. . |  | $\infty$ |
| Cyanide, 1 l . | 40 | 50 | Onl., Almond, hater, ${ }^{\text {ar }}$ | 75 | So | Savin, lb... | 160 | 153 |
| 1!jpophosplutes, oz. | 10 | 12 | Sucer, ll, .... | 40 | 50 | Speamint, lis. | 375 | 479 |
| Iodick, Ho.... | 350 | 375 | Amber, erude, It | 40 | 45 | Pruce, Jh. |  | $\infty$ |
| Nitrate, gram, 13. | S | 10 | liecti, ib. | 60 | 65 | Tansy, ll.... | 425 | $4 S^{5}$ |
| I'ermanghnate, lis.... | 40 | 45 | Amse, 16 | $3 \infty$ | $3=5$ | Thyuse, whte, is | ${ }^{\text {J So }}$ | 157 |
| Irassiate, ked, il. | 50 | 55 | lhay, 07 | 50 | 60 | Wintergreen, 16. | 275 | 300 |
| Vellow, li,. | 32 | 35 | Hergamm, 13, | 325 | 350 | Wormseed, $\mathrm{ll}^{\text {W }}$. | 350 | 370 |
| sind Sod. Tarirate, ll | 25 | 30 | Cade, it .. | 90 | 100 | Normmood, ib. | 425 | 455 |
| Sulphures, lb.... | 25 | 30 | Сајирия, If | 160 | 170 |  |  |  |
| Prophytamise, oz.. | 35 | 46 | Сајлsicam, oz | 60 | 65 | Fintil Oth |  |  |
| Qumser, sulph, bulk | 30 | $3{ }^{6}$ | Caraway, ib. . | $=75$ | 300 | CAstok, H1... ... | 13 | 15 |
| $\mathrm{O}_{2 \mathrm{~s}}, \mathrm{oz} \text {. }$ | 35 | ${ }_{3} \mathrm{~S}$ | Cassia, ib | $=35$ | 3 co | Com, Imar, N.F., ¢al - | 90 | 95 |
| Qunvibnis, Suphate, ozs, oz. | 15 | $\geq 0$ | Cedar... | 5 | ${ }^{5}$ | 之ırwegian, gal... . . .. | 1.35 | 150 |
| Salicin, ll..... Santosin, oz.. | 450 20 | 500 | Cinuanon, ceylun, az.. | 235 | 300 | Comronstesio, yal. | 110 | 120 |
| Santonis, os........... Shle:r, Nitrate, cryst, | So | $\stackrel{\text { İ }}{ }$ | Chromelh, 11 | So | S5 | lakn, gal....... |  | 100 |
| Silver, Nitrate, cryst, Fused, oz. ... ... | So | S5 | Clove, ib. | 110 | 120 | Livserin, Iniled, gal . | 56 | 59 |
| Sobicus, Actate, ll | 55 30 | 90 | Copailn, lh,...... . . . . . . . . . | 175 | 200 | law, \%at.... |  | 5 S |
| Somiens, icetatc, (l). . 13icarlomate, kiss, 11 | $=3$ | 35 -00 |  | 150 +50 | 175 | Mintspoot, gal | 120 | 130 |
| bromide, $16 . . . . .$. | - 75 | 300 | Cuhet, 16. | 250 550 | -100 | Otrse, gat.... | 130 230 | 135 -60 |
| Carbonatc. It, | 3 | 6 | Eitigeron, at.... | 5 | 25 | Pata, ii, |  | -13 |
| Ilypophosphite, ${ }^{\text {a }}$ | 10 | 12 | Eucalypus, lli. | 150 | 175 | Spens, dal. | 135 | 120 |
| Hyposuiphite, lis ... | 3 | 6 | Fennel, lli.. ........... ..... | 150 | 185 | Turientive, dal. |  | 65 |



A somewhat smaller quantity of pyrosuccin can be substituted for the pyrocopal.
16. Japer Varnish (fst qquality)-

| Sandarach | par |
| :---: | :---: |
| Tarpentine | 3 |
| 95 yer cent. sp | 5 |

17. I'aper Viarnish (and quality-

Sandiarach................ .. 5 parts. Thick turpentine .... ...
05 yer cent. spirits of winc.
15
iS. Varnish for Chalk or lilack L.cad Wrau-ings-

19. Tarnish for Wiater Color Drawings-

Sandarach a jarls or niastic 5 parts. $\begin{array}{ll}\text { Tuper cent. spisits of wine. } \\ 95 & 4\end{array}$ - Oils, Colors, and Drysalierics.

## Drug Reports.

Camada.

The most important change last month was the surprising dirop in quinine, and we are lavored with another surprise in the same line this month owing to the low price of bark at the last Amsterdam sale, the yrice is down about 2 c. or.

As before reponed Norway cod liver oil is like) to be much higher, price has already advanced from 15 to zoc. a gal. lon and lugher prices stall looked for, as the catch is must over and it has been a poor one.

Camphor is higher, guatacoi carb is easier, no other changes of mportance. linenalgon powder and tablets, made by Eina Chemical Co., New Vork, are now put up only in i or. botlles, price $\$ 1.3^{\circ}$ 07. Sloan's Indian Tonic has been ad. vanced by the manufacturers to $\$ 8$ doz.

We would call the attention of our readers to 'Irask's Magnetic Ointment and Ransonis Hive Syrup. These remedies are being extensively advertised, and
where druggists recommend them and push them they are receiving large returns. It is cssential when a druggist is recommending a remedy that he recommends one that can be trusted, and such are these articles. The proprictors authorize druggists to guarantee these remedies and to refund the money where a customer is not satisfied.

## 11ruggists

100
11.l. find the Student's Imperial Dictionary the very best one for use in home or dispensary. It is reliable, uplo-date, and auhoritative. No other dicuonary can be obtaned for less than three times its price which contains the latest information in all departments oi study and investigation. It is the most satisfactory and most com. plete working dictionary jet primed.

Handsomely bound in half morocco. lrice, on'; $\$+1.50$.

THE BRYANT PRESS Publishers 44-46 Richmond St. W., Tosonso

## DOMES, BUBBLES AND EGGSHELLS.

Seen from a distance on a fine day the dome of St. P'aul's looks as light as a soap lmbile; and if it could talk, it would tell you it feels as light, for the mighty strength of the great church carries it as a man carries a baiby on his shoulder. Jet it weighs-how uuch, do you fancy?

A woman stood in the doorway awating the return of her husband. He had left home with a heavy load of anxiety on his mind. l'resently she saw him coming. Watters hat been satisfactorily adjusted: she knew it loj his face. Walking quickly up to her, he saud-not loudly, but gently, with pauses between his words: "IDife, if-yos.
 and-not-ireak-onte."

This is in the line of universal experience. Weight-so far as it concerns the human body at least - is not determined by the scales, but by sensation.

We bee to intoduce Mr. Join Stafford, who says, "I felt as if a heazy loud had licen lifsed of nice."
"For over twenty years," he adds, "I had suffered from obstinate indigestion and constipation. For more than a week at a time I would never have my bowels moved."

The reader is an intelligent person, doubtess. Consider Mr. Stafford's stotement, then, for a moment, let us put the fact in plain English. His intestines were full of festering rottenness; they were like a stagnant morass, brecding disease and death. The poisons engendered by so vile an accumalation are absorbed by the tissues, pass into the blood, and infest every organ and part of the system. If not relieved, the victim will die-poisoned by the products of his own machinery. It is as horrible as the Black Hole at Calcutta, and common as weeds in a neglected garden.

We are, therefore, prepared to hear him say," I always had a bad taste in the mouth, m; congue and tectls being covered with at sticky, slimy matter. I was constantly belching upia foul gas of fluid that tasted sour as vinegar. After cating I had great ain and :ightness in
the chest, back, and between the shoukers, with a choking feeling in the throat. As time went on I grew weaker and weaker through loss of appetite and lack of nourishment, until I could hardly follow my work. I hied all sorts of medicines I could liear tell of, but none of them di.l me any good.
"In June ( 1893 ) I was so run done and feeble I feared I should have to give up alsogether. I was unter a doctor for several weeks, but his medicines did me no good; I kept getting worse and worse. At last, in fuly of the same year, my mates at the Jarsh Iron Werks, where I was employed, told me about Mother Seigel's Curative Syrup, and urged me togive it a trial. I got a botlle, and after I had taken it a few days $/$ fell a preat improaenersts. My bowels acted naturally, as they had not previously done for twenty years, my food agreed with me, and / fell as if a heazy load had becn lified of ont. Continuing to take the Syrup I gained sirengh rapidly, and have been in the bere of health ever since. You will believe me when I say that I now recommend this remedy to everybody who suffers from the same complaint. You are welcome :o publish my statement. Vours truly, (Signed) John Stafford, 15 Spa Terrace, Marsh Lane, I'reston, Octolier inth, 1S93."

Indigestion is primariby a disease of the stomach and constipation is one of its results. Un account of the torpidity of the liver (an accompaniment of indigestion), litte or no bile is poured into the bowels, and the faids of the intestines being dried up by the feverish action there, the partly digested stuff from the stomach becomes hard and solid in the lowe: bowel, and clogsit. Then it purrifies, producing all the evils from which our friend suffered. Seigel's Syrup cured him ly setting things right at the source of the trouble. We congratulate Mr. Stafford on his escape; it was narrow enough for the strongest and boldest.

The scales will tell him he weighs more than he has in twenty years: bis foclingrtell him that he could stand on an egg and not break it.


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

CLEARS OUT<br>Rats, Mice, Ants,<br>Een Lice, Sparrown,<br>Slunize, Squirrels,<br>Weasels, Jack Rabbits,<br>Moles, Gophers, etc.<br><br>Gone where the Woorbine Twineth.<br>cleans out<br>Flies, Water Bugs,<br>Roaches, Beetles,<br>\section*{Insects, Chipmunks,}<br>Moths, Potato Bugs,<br>\section*{Gophers, etc.}<br>" Rough on Rats" pays the retailer 100 per cent, and is the most extensively advertised articie in the world. It is now "the" staple with the trade and poblic in United Staien, Canada, Mexico, Central and South America, Great Britain, France, Germany, Africa, Australia, India, East and West Indies, cte, ctc. Sells the world around.

No loss by breakage or evaporation. Will keep a thousand years in any climate. Always does the work. Lowest prices of its kind. Pays better than any other.




[^0]:    STIMULATING and REFRESHINE LIQUEUR HOR.
    KOLA. COCA and LIME GLYCEROPHOSPHATE-
    A Stmulating Tonlc. It Strengthens the Entirc System.

    Jerfect specific for Nbuminuria, Nervow Irritalisity, lhosphausia, Xcuralgia, Consump. tien, Gencral Delibity. Exhaustions.
    FINCKLER, Pharmacist, Montruuil, Near Farls. no:TtEEAI. DECABY.

    TORONTO: The Druggists' Corporation of Canada. Limilied.

[^1]:    "I.itte's Sheep Dip and Catte Wash" is useci at the Dominion Eaperimental liarms at Ottawa and Brandon, at the Ontario Industrial Farm, Guelph, and by all the principal Breeders in the Dominion; and is pronounced to be the cheapest and most effective remedy on the market.
    efr 17 Gold, Silver, and other l'rize Medals have been awarded to "Little's Sheep and Cattle Wash" in all paits of the world.

    Sold in large Tins at 75c. Is wanted by every Farmer and Breeder in the lominion.

[^2]:    *A paper read to the Chemists' Assistans: Associs. sion, Eebruary $3 z \mathrm{ch}$ (sligbly condensed).

