## Rectifying Alcohol by Moans of Gelatin.

Whilst witnessing the manipulation of the Eburnum process in the studiu of Mr. Burgos.3, nt Nurwich, Mr. Burgess mentioned n curious circunstance. When the gelatin and pignent furming the later of olumenn is ghite dry, it is coated with collumbion to render it impervious to moisture. This uperation ho noticed nlways rondered the elumenm soft and limp, so that it required placing in the drying-box ngain. Tho greceliness of tho golatin for moisture cinses it to absorb the trace of water in the solvents of the collinliun, arse so becomo damp. This suggested to us a possiblo use for rectifying suall quantitic: of alcohol, on removing water from collorlion in which the nse of inmerfectiy rectified solvents has caused a tondency to givo crapy filins. Placo a little pure golatin in tho spirit to bo rectified. Thero is no danger of any portion of it dissolving, but it will absorb the water and gradunlly swell; it may then bo removeci, carrying the water with it This will bo found moro comenient than the plan sometimes recommended of aritating with carbonate of potash, and after subsideace de-canting.-Chem. Ncws, Sept. 11, 1808, from Photograph Nevs.

Oa Tinotura Physostigma.

> by william proctor, jn.

Tho tincture of Calabar bean (Physoutigmu rencuosum is occasionally prescribed in Philsdelphia, and, not having been a furmula, the following is offered as afiording the netive constituents of this new remedial agent:

> Take of Calabar banns, a troy ounce, Alcohol, seven fluidounces, Water, three flaidounces.

Reduce the beans to af fine powder in the mortar, mix the nleohol and water, muisten tho wder with half a thide mance of this menstruum, pack it in it conical tube (the neck of a broken retort), and pour on the rumaindir of the fluid until eight fluilomuses have passed. Should the menstruum indicated not be suflicient, add more, until the measure of hali a pint is obtained.

When necled to calabariz paper, eraporate two fluidnances to the measure of three fluiddrachins with a gentle heat, and when cold, filter. This sulution is about equal to that recommended by Mr. Manbury ( 1 harm. Jour., July, 1863), and the paper (which shonla be thin letter paper doprived of its size by hoiling in water) is dipped in it and dried three or four times, which will impregnate the paper with on sufficient amount of the extract to pelform the necded sorvice within the eyelid.-An.Jour. Pharmacy.

Excitino Liquid fon Gidvanic:Batteries. -In "Comptes Rendus" M. Dclurier recommends for this purpose 20 parts by woight of proto sulphate of iron, dissolved, as much is possible, out of contict with the air, in $\mathbf{S 0}$ parts of water; add, stiming, 7 parts monohydrated sulphuric acid, and then one part of monohydrated nitric acid. This comporsition is said to be very powerful, and not to disengage any unpleasant gases. M. Delauricr observes that "ho brings into action enough hydrogen to form water and ammo-
nia, and that binoxydo of nitrogon is prerented from escapiner by tho excess of protosulplatorf imo which absurbs it, and through the indnence of the mascent hydrogen, ducomperse it, problucing sulphate of ambunia nul water, whilu pinto-sulphato of iron remains, having acted as a carrying nofont."

A Ninw Aabsive Dre, producing a shado of color kiown as poncectu, is mado by dissolving one part of ros:milino in one thonsand purta of builing water, and when conled $t_{10} 113^{\prime}$, by nedling four and ithalf parts of deut-wxido of harium dassulied in thirty-fivo parts of cold water and ten parts of sulpharic ncid. At first the mixturo tums a lemon jchlow color, but very soon becomes nearly coldurkss. It is then hitered to remove the sulphate of baryta, and the cloar solution borincl for about two minutes, when it assumes its ircatest intensity of color. Acids strengthen the color, while ammonia destroys it. The name given to the now dye is geranusiuc, and its quantity and hrilliancy are pronouncel equal to the fiacst cochmeal.


A Ghery Cllor yur Swerthlats.Professor Artus gives the following formula for is beautiful green color, dorvid of poisonons prepreties. Ebgrs. of salfirus are whalsen uis with $f$ oz, of distilled water: and the mixture allowed to stand twenty-fom huprs; at the samo time, st sra. of-indigo carmino are shalen up with $\frac{1}{2}$ oz, of distilled water, and the mixturo also allowed to stand for twent $j$-four hours. At the end of this time, the two solutions are mised tugether, and a very fine erren solution, capable of coloriug five puints of sugrar, is prodaced.-Britesh Mceslical Jutunal.

Amalgam for Fhling Therin-Chloride of zinc, after expusure to the air until it has becounc alelinacseciat, is triturated with cummon mercury, such is may be purchased at any of the dental dejuts, and the excess, with that of tho mercury, is pressed ont by boing cavelaped ma cloth or buciskin, and subjecteal to pressure by a par of phers. It will harilea ifter berge matrulaced into the touth in an hour or two. The advantage is, that by the a ldition of the chlorzde of zinc, the anitigim dues nut become discolored.

Firsifir: Metit. - Lead, cight parts; hismuth, tificen purts ; tin, four parts, and culdmimn, three parte. ADelt torather. This all $y$ is white, like silver, and dues not readily trans, its precife irexity is alout 9.1 , and its melting print abuat $140^{\circ}$ Fihar. It may be used for filling teeth, and as a solder for metals which are nol to bo exjosed to. the heat. It may even be applied minder 1 water, and may le macited on a piece of paper held over a spirit lamp.

Feeding botrles. - - a very simpleimpruvement in these tery useful articles hiw been male $b_{j}$ T. G. F. Dollb, in orike to prevent the retum of the bleath from the claides month into the bottle, and for the aluission of fresle air. A conical ve uther shancd yalve of india-rubber or other suitable maturial is placed in the cap, nock, or tup of the buttle, and a similar valve is alsu mphied at the top or bottom of the tube thruugh which the food passes to the child's munth. -Student.

To Previnit Adibsion of Geass Stor-ousis'-Mach dificulty is frequently oxperinaced hy druggists and others in removing the blass stuppers used in bottles which contain sulutions of canatio potash and sodn, lime-water, earract of lead, otc. All this trublu may ho provented by dipping tho 'sinppers in melted paraflin, upun which nono of these substances act, mud which also acta as a lubricant.

Suldtiun of Fhemancex for tie Ifeh, This hituid, recumamended by Vleminckx, is a sulation of sulphuret of cillciom mado as follows:
Tike of quick lime............ 1 lb.
Water..............
q.s. toslack.
Sublimed sulphur... $2 \mathrm{lbs}$.
Witer................ 20 lbs.

Mix and boil until renced to 12 lbs . and filter.

The medicino is employed as follows:The patient is put in a warm bath and romains there half an humr, then all tho parts affected by the itch are rubbed by a piece of alamel dijped in the sulution as above; and the pretient recurned to the bath for half an hour. The next day this treatment is repeated, and usually is sufficient to curc.

Prof. Hebra, for women and perions with delicate skins, often empluys the following misture :-

## Pctrolema vil (Senckr oil). <br> Alcohol, of cach an punce.

Balsam of Peru, a drachu.
Oil of Rosemary.
Oil of Lavimder.
Oil of Lemon, of each 22 grains-Mix.
This physician enuploys the solution of Vhemincks for psoriasis, prurigo sycosis.-Mull. Ther. ct Jour. de Chim. Míd.
N.hthhaline to Rraphi Inspots.-M. Elugcue Pelunso prupuses to empluy naphthaline to protect plants from insects. It dues not act as an insecticide, but is so disagreeable to them as to ciuso them to leavo a plant unin which it is sprinkled. It is used in very small quantitics, and said to be pery of-fectual.-Jour. de Clem. Méd.

Paraffine as a Lubricant for Ma-rurveri.-The necd of a lubricant for machinery with heated surfaces hans carused a substance of the paraflinclass, melene ( $\mathrm{C}_{50} \mathrm{H}_{60}$ ), to be suggested fur this purpose by M. A. Monnet. It is volatilo at $370^{\circ} \mathrm{C}$. without change, has the cunsistence of was ordinarily, but suon soitens by the friction, and when it is much heatēd it is sery fluid and unctious. -Jubr. de Chim. Aíel.

Paraffin to protict Vesbels in Cris-tallizinu.-MI. Frame. Stolba, of Prague, suggests the use of jaraffin as a coating to vessels of ghass or porcelain, when these are atttacked by cortain liquids to be ser aside fur crystallization. Tho paraflin is put into the cupsules, previously well dricd and heated till it commences to boil; the vessels aro then turned about so as to bring the parafin in coatact with the whelo of the interior surface and then empty out tho surplus. After cooling it is found to hold well, and the vessels are realy for use; of course the solitions , to be crystillized must not be heated, but loft to spontaneous or vacuum cvaporation. $-J$ vurnal de Chim. MEd., Lout., 1868.

