Different Length of the Fingers.

The difference in the length of the fingers erves a thousand purposes, adapting the hand and fingers, as in holding a rod, a switch, a tion are admirably combined. Nothing is stroke cuts completely through the wax.hand, than the manner in which the delicate dered fluate of lime, (fluor spar,) strew it evenand moving apparatus of the palm and fingers ly over the glass plate, (upon the waxed side,) is guarded. The power with which the hand and then gently pour upon it, so as not to disgrasps, as when a sailor lays hold to raise his place the powder, as much sulphuric acid, dibody to the rigging, would be great for the luted with thrice its weight of water, as is sufthey would be crushed, were not every part every thing remain in this state for three hours, that bears the pressure defended with a cush- then remove the mixture, and clean the glass ion of fat, as elastic as that which we have de- by washing it with turpentine; the figures tra scribed in the foot of the horse and camel .- ced through the wax, will be found beautifully to add to this purely passive defence, there is and deeply engraven on the glass, whilst the a muscle which runs across the palm and parts covered by the wax will be left uncorromore especially supports the cushion on the ded. These engravings, when elegantly exeinner edge. It is the muscle which, raising cuted, are very handsome, and as the expense the edge of the palm, adapts it to lave water, is but trifling, and the ingenuity required so forming the cud of Diogenes.

On the Construction of Chimnies.

hear in mind that the facility for the passage the substances required are very corrosive. of air through a funnel depends entirely upon his labor in its formation. The more direct the funnel, the more regular in its size, and will conduct a stronger draft than twice the can create and destroy. size which is irregular in its form, with a rough surface, and having abrupt turns. A

To Make Phospharetted Hydrogen Gas which burns nuder water.

Take about a teaspoonful of clear zinc filings. Put them into a wine glass, with eight or ten small bits of phosphorous; nearly fill the wine glass with water; then by means of it comes in contact with the skin, it makes a warmth of the skin soon inflames it.

Test to Detect Arsenic.

Put two or three grains of arsenious acid (white arsenic) and eight ounces of distilled water, into a Florence flask; heat the mixture over a spirit lamp till the solution boils, and then add to it a grain or two of sub-carbonate of potash or soda. Pour a few table spoonsful of the solution into a wine glass, and present to the mere surface of the liquid a stick of dry lunar caustic. A yellow precipitate will instantly appear, which will proceed from the point of contact of the lunar caustic with the fluid and settle towards the bottom of the glass as a flocculent and copi ous precipitant. The above method of detect ing arsenic is derived from Bertholet. It i known but to few that arsenic is used as drug for dyeing. In combination with the have suffered from the direful effects of the poisons.

Chemical Amusements.

TO ENGRAVE FIGURES ON GLASS.

Cover one side of a flat piece of glass, after having made it perfectly clean, with white hammer, a pen or pencil, engraving tool, &c., beeswax, and trace figures upon it with a nee in all which a secure hold and freedom of mo- dle or other sharp point, taking care that every more remarkable, as forming a part of the pro- Next make a border of wax all round the spective designs to prepare an instrument fit- glass, to prevent any liquid, when poured on ted for the various purposes of the human from running off. Now take some finely powtexture of mere tendens, nerves, and vessels; ficient to cover the powdered fluor spar. Let small, ft is an experiment certainly worth trying. I must add, however, as caution, that this experiment should be conducted with In constructing chimnies, the builder should great care, as regards the skin and clothes, as

The Atmosphere.

The atmosphere is composed of nitrogen 4 the smoother in its surface, the more perfect degrees, oxygen 1. Laughing gas is compowill be the draft. The greater length you add sed of nitrogen 2, oxygen 1. Aquafortis is to a funnel by giving it abrupt turns or composed of nitrogen 2, oxygen 5. What a "breaks" (as they are sometimes called, the small cause would change our atmosphere into less useful it is for the purpose for which it a deadly poison. Epidemics which so often was designed. A funnel 8 inches square, occur in different parts of the world, can thus made perfectly smooth and even in its inner easily be accounted for. How inscrutably surface, and perpendicular in its direction, wise is that Being, who by the same elements

RECIPE FOR MAKING BEER.-Take one separate funnel for each room should be car- pint of corn and boil it until it is a little soft ried all the way up the chimney; and if this is add to it one pint of molasses and one gallon not done, the area of each funnel should equal of water; shake them well together, and set it in measurement that of all the flues leading by the fire, and in twenty-four hours the beer into it. A chimney in a conical form, with will be excellent. When all the beer in the posed to the water himself. This is a very should be intersected by cross bars about a a gradual increase of area as it is carried/up, jug is used, just add more molasses and water. good mode. will be much more regular in its draught at The same corn will answer for six months the apex than that of the ordinary construct and the beer will be fit for use in twelve hours, tion, where the outlet of the funnel is smaller by keeping the jug which contains it warm, than the bottom or inlet. The most promi- In the absence of molasses, sugar or honey nent difficulty in the draft of chimnies is oc- will answer in its place. In this way the casioned by discrepancies in the formation of whole ingredients used in making a gallon of beer will not cost exceeding four cents, and it is better and more wholesome than cider.-Paulding (Mississippi) Clarion.

The Farm.

A Plea for Birds.

The Horticulturist for April, has, among a dropping tube, convey some oil of vitriol to other articles, an eloquent "Plea for Birds." the zinc, which will by and by begin to be by a lady. We make a single extract: "I dissolved. During this solution, water is de- avow it is my firm belief, that all the discuscomposed; its oxygen unites to the zinc, and sions about the curculio which vex the hortiits hydrogen dissolves the phosphorous, and cultural soul from day to day, would come to a rises in the form of phosphuretted hydrogen, peaceful end if there were birds enough to In making experiments with phosphorous, take eat the creatures up. Were our forefathers care to cut it while immersed under water in beset with these spoilers of the fruit? Did not a saucer, with wet fingers. Cut it slowly and my grandmother's garden teem with plums. cautiously, for it is apt to fly about and be apricots, and peaches, of every kind and colost. It will inflame quickly at from 80 to 90 lor? Was the curculio made expressly for the degrees of Fahrenheit, and if, while inflamed, vexation of later days! or is it that the feathered toll-gatherers are gone too, and, to use very deep and painful sore. Never, therefore, your own language, O! conscript fathers! can gain access, and under which they betrust your dry fingers to press it; for the 'the supply exceeds the demand' of every bug come habituated to stand, will very soon die. that caters for itself in our thriftless orchards? In the case of a solitary shade-tree, in a pas-I should not dare to raise my seebie voice in ture or by the road side, this is of common whatever is likely to come in use. To say nothis behalf through any other medium than the occurrence. The query may have been sug-thing of all refuse materials fit for manure, if Horticulturist: but I know my audience here gested, to what this is owing. In the first properly composted, and by the saving of sturdy, sensible culturers of the soil; educated, cattle is highly pernicious, and if persisted in, farm in the course of a season. Attention intelligent possessors of gardens and green- it will commonly destroy it, sooner or later; should also be bestowed to the securing of all houses; electors, if not members, of the le-but if the body of the tree be cased, so that pieces of boards, and iron, to rails and ropes, gislative bodies. And I am supported by the their necks cannot touch it, death will ensue and such other articles as are often wanted. tion and fruit-grower in the land. Strong in the earth about it. But why should tramping can place your hand upon them without loss this riple shield, I ask you, assembling citizens the earth destroy the tree? The reason is of time. It is a good motto for the farmer to of this free and fertile country, to have regard one of wide and important application to the practice upon, "Gather up the fragments that in your laws to the birds. Do not let them be laws of vegetable growth. The roots of plants nothing be lost," slaughtered for the wanton pleasure of school need air, if not as much, yet just as truly as boys, or the improvement in shooting of the the leaves and branches. Their case is anaolder, but scarce wiser men. Through a- logous to that of fishes, which though they round their wind-swung cradle the sheltering must have water, must have air also, viz : just film of legal pains and penalties. Guard their about as much as permeates the water. If it untried wings with fines and prosecutions to be all shut off, so that none which is fresh can drug for dyeing. In combination with the sulphate of copper, precipitated by a caustic ley, it makes a most beautiful green, well known by the name of sage green, a name known by the name of sage green, a name remembered with horror by many dyers who to permit their shooting after a certain date, So the roots of trees and vegetables want

band of greater power and tenderness than ral condition, it is full of interstices and chantake even their rapid pinions, they shall not fall time, a crust like a brick is formed, wholly unnoted or uncared for. It is not life, or food, impervious to the atmosphere, and the tree

Washing Sheep.

There will probably not be so much wool clipped in Maine this year, as there was last. because, owing to the depressed price of wool our farmers have been, for several years past, stretch and nail it on frames of any size you diminishing the number of their flocks. Not- wish; take 2 oz. of lime water, 4 oz. linseed tance of thoroughly cleansing what wool is mix the lime and oil with very gentle heat, pare your wool, the better reputation will it become waterproof. The following are the quence the more ready will be the sales and ones: the larger the price.

There are various modes adopted by flockmasters for washing sheep. Some drive them to the margin of a pond or stream of considera- ing; no matter how intense the heat of the ble depth, and standing in the water, plunge sun, the plants are never struck down or burnt, each sheep in separately, and by pressing and faced or checked in growth, neither do they squeezing the wool, get the dirt out in this grow up long, sick and weakly as they do unway. As the operator has to stand in the wader glass, and still there is abundance of light, ter all the time, while doing this, it is rather a 4. The heat arising entirely from below is tedious process when the flock is numerous. more equable and temperate, which is a great Others make a sort of trough or flume in a object. The vapour rising frem the manure small stream, with gates to open in the upper and earth is condensed by the cool air passing end through which the water is let in, and a- over the surface of the shade, and stands in nother at the lower end to let the water out. drops upon the inside, and therefore the plants. The operator in this case stands on the outside do not require as frequent watering. If the and washes the sheep, without being much ex- frames or stretchers are made large, they

the following mode, which he adopted: "I flower seed in season for transplanting.took a trough," said he, " which held about a Plough, Loom & Anvil. barrel, and filled it with soap suds. I laid a board on one end of the trough, slanting it so that when a sheep was dipped and taken on to the board, the water would drain into the better than most other crops; yet it is not an trough. A boy took the hind legs of the sheep established fact that they will bear good crops and I took the fore legs, and turned their for a series of years so profitably as they would backs into the trough, then raised them out by a change of soil, and by being brought into on the board and squeezed the wool thorough- a rotation once in three or four years. ly with our hands. When the soap suds grew Generally there is no advantage in cultivatlow we would add more—having a quantity of ing one crop on the same land for a series of dissolved soap in readiness. The soap suds years; for, in order to get good crops, higher should be made very strong. When we had manuring will be necessary than in rotation. thus soaked them all, we commenced washing. As different crops differ in their constituent I found the wool whiter and cleaner than I elements, they, of course, draw different eleever got it before without soap, though I have ments from the soil. There is, generally, helped wash sheep for more than twenty economy in a rotation of crops, as less manure. years; and when we came to shear the sheep, is required. There are some exceptions .we found the ticks all dead."

means wash youf wool clean.

How Cattle Kill Trees.

It is a noticeable fact that a tree ever thrifty and of whatever kind, to which cattle

pparent to you, has given them the means nels by which air gets to them. But if cattle scape; a pure air, and wide sky open be- are allowed to tramp down the earth, and the fore them; and if the leaden messenger over- sun aids their work by baking it at the same or any other alms, they ask from human com-passion; but merely such protection to their roots are covered with a close pavement. existence as is most for human benefit. My They will struggle for life by creeping to the dear sirs! care for the birds a little, and they surface, and hoisting out a brick here and a shall care for you. Your fruit shall ripen in stone there, or find a crack where their noses August suns. Your plantations shall echo can snuff a little breath; but if fought down, with songs that will be vocal gratitude to your and covered will finally give it up. So, if a tree be thrust into close clay, or its roots are kept under water, it refuses either to be anaquatic or to put up with his prison. It will The Maine Farmer has the following on grow as little as possible and die the first opportunity.

German Hot Beds.

Take white cotton cloth of a close texture, withstanding this, we would urge the impor- oil, I oz. white of eggs, 2 oz. yolk of eggs; clipped, and putting it in the best possible con- beat the eggs well separately and mix them dition for the market. Aside from the honesty with the former; spread this mixture with a of such a course, in itself considered, it is a paint brush over the cotton, allowing each matter of policy so to do. The better you pre- coat to dry before applying another, until they have in the market, and as a natural conse- advantages this shade possesses over glass

> 1. The cost being hardly one-fourth. 2. Repairs are easily and cheaply made.

3. The light. They do not require water-

foot square, to support the cloth. These arti-A correspondent of the Prairie Farmer gives cles are just the thing for bringing forward

Carrois.

Carrots bear a succession of crops very well;

The onion, for instance, not only bears a suc-Adopt any mode you think best, but by all cession of crops with success, but it is said that it flourishes betteron land that has been long under its cultivation. An instance is named of a piece of land in England that has so borne good crops of onions for 400 years in succession .- N. E. Farmer.

Savings.

There is great gain to farmers in saving are the ferest trees, as it were, of the land; place, the rubbing of a tree by the necks of which a big heap may be gathered on every wide sympathies of every pomological conven- just as certainly, if they are allowed to tramp Have a place for these, and when needed, you

It is said that a pint of varnish mixed with bucket of whitewash, will give it in a great degree the qualities of paint, and it will withstand all kinds of weather. As this is the sea-son for whitewashing, a knowledge of the above may be of some use to our readers.

Never trim the hair from the ear of your horse. It is yet let them arrive to some strength and flight. air. When the earth is in a normal or natu-