WILLAMETTE FARMER W

Uservit Information. How A Framme Grows.—In the skin of a bit where a new feather is to grow, there is a bit where a new feather is to grow, there is a bit where a new feather is to grow, there is a bit where a new feather is to grow, there is a bit where a new feather is to grow, there is a bit where a new feather is to grow, there is a bit where a new feather is to grow, there is a bit where a new feather is to grow, there is a bit where a new feather is to grow, there is a bit where an exceeded of the pyramid, and these also as they are about to meet on the size of the strice, and is as they are about to meet on the size of the strice, and is are will depend not only on the super of the water will depend not only on the super of the water will depend not only on the super de-site by pramid, and these also decrease in depth and at last disappear just the largefurrow. The whole pyramid is cor-ered with skin, and the surface is made on the super avails, or fastened cells that are made over the ret of the surface of the body, but is they are pushed out by the new mass one is used in most famil-by the new mass one is used in most famil-by the mass on. Equal parts of plaster of Paris and white sard-such as is used in most familover the ret of the surface of the body, but, instead of alling off when they are pushed out by the new ones below them, they become united or weded to each other. so as to form a horn coat over the surface of the pyramid, with norm coat over the surface of the pyramid, with ridges on its lawer or inner surface correspond-ing to the grooves on the pyramid; and as new cells grow at the base, this coat or cast of the surface is pushed upward till it breaks at its thinnest part which, is of course, the smooth part without ridges opposite the large furrow; and then as it is maked onward and flattened, it assumes the furn of a feather, the ridge formed in the man furrow being the shaft, while the casts of the vane. When all of the separate barbs of the vane. When all of the pyramid looses its groves and becomes smooth, and the wall now formed and pushed forward, the pyramid looses its groves and becomes smooth, and the wall now formed on its surface, being of the same thicknes in all parts, does not break, but remains tablar, and form the quill, which is attached to what is left of the pyra-mid. A finger-nail or shair is formed from the same kind of scales n the same way, the process differing only inthose features which give to each organ its special character. Feathridges on its lever or inner surface correspond. process differing only introse restores which give to each organ its special character. Feath-ers, scales, hair, claws, at are made alike from the dead, flattened cells rowded to the suface by the process of growth.

ECONOMIC CONSUMPTION OF SMOKE .- The op eration, at Glasgow, o' a patent relf-stoking smokeless furnace, is thus spoken c' in the Glasgow Herald: It meds the case more thor-Glasgow Herdd: It mees the case more thor-oughly than any invention of a similar kind that has hitherto come toder notice, and is as simple in construction sait is efficient in oper ation. The coal is placetin a hopper, over the front part of the furnace, nto which it drops front part of the furnace, nto which it drops in small quantities throug a couple of aper-tures. It is not necessary to open the front door of the furnace, except o see how the fire is getting on, for by a simile mechanical re-adjustment, the man in chage of the furnace may regulate the quantity allost to an onnce. As it is added to from abos, the coal sinks down and slides alowly until i reaches the bars from the bottom of the furnee. These hars are acted upon by plungers, which carry them forward together, with their layer of coal on top, and then, an eccentric bein applied, every s coffia, and a rusty old sword hung by the bad-side, and a rusty old sword hung by the bad-side, are (in some districts) charms against the cramp; headache is removed by the halter that has hung a criminal, and also by a snuff made from moss that has grown on a human especially the hand of a man who had been cut down while hanging, dispels tumors. Warts may be removed by rabbing them with a bit of stolen beef; the chips of a gallows, worn in a little bag round the neck, will cure the ague; a stone with a hole in it, suspended at the bed's head, will prevent nightmare. Many verses are known, which if repeated aloud, are credited with curing cramp, burns, and other bodily troubles. When you have the whooping-cough, apply for a remedy to the first person you meet with riding on a piebald horse—a cere-mony that Dr. Lettsom, the physician, was fated more than once to become acquainted with...-All the Year Round forward together, with their liver of coal on top, and then, an eccentric bein applied, every third bar in the series is broughback to receive a fresh supply. In this systemaic and contin-nous way the furnace is fed with coal, which passes right through in slow and easy stages, the same quantity of fuel being atall times in exactly the same state. Combustin is, there-fore prefect. fore, perfect.

DUBABLE SOAP BUBBLES .-- To otain soap bubbles that will show the changin colors of the rainbow the directions are a follows: Take half a pint of water that has ben boiled and become cold, and put into it a quater of an ornee of Castile soap, cut up fine. Put this in a pint bottle, and set it in hot wter in a epan, on the fire ; there let it renain an 8800 saucepan, on the first there let it remain an hour or so, now and then give it a god shak-ing till the scap is disolved. Let the flud stand quiet for the impurities and coloring matter of the scap to settle; then pour off the flud and How Poos Exes ARE MADE.—I have, during the past two months, seen lace veils drawn tight over the face in church, both morning and evening. I have seen ladies teaching in Sunday-school and in sewing-schools, where the expression of face has so much to do with claiming and retaining the scholars' attention, with the inevitable veil covering like a mask both faces and expression. Ladies were seen at the evening receptions at the Metropolitan museum of art, looking at pictures and porce-lain through lace veils, which in one or two in-stances were beaded. I myself saw a lady at the Astor library procure the seventh volume of Froude's History of England, which she proceeded to lead through a dotted lace veil. And last, but not least, I am told by a friend who attends the art school at the National Academy of Design, that young ladies go there and draw from plaster casts for hours at a time without lifting their black lace veils.—Cor. New York Evening Post. the scap to settle; then pour on the hud and add to it three or four ounces of glyceriz, and your scap-bubble solution is ready. In an or-dinary way you may blow the bubbles easy with a tobbaco pipe, but if you wish to ttain scientific perfection, you had better empoy a glass pipe. By adding a larger quantity of glycerine you may make these bubbles so stong that you can play battledore with them.

MAKING ANIMAL HAIR.—A method of treaing snimal hair for the use of the hatter, which has been kept secret for a long time, is now found to consist in the application of a solution of the nitrate of mercury, for the purpose of preventing the putrefaction of the fibre. This substance, however, is very deleterious, it s said, both to the health of the workmen and the trade and recently to the implements of the trade, and recently carbolic acid or creosote has been used to grea advantage as a substitute. This has the prop-

walls can be easily repaired without sending for the mason. Equal parts of plaster of Paris and white sard—such as is used in most fami-lies for scouring purposes—mixed with water to a paste applied immediately, and smoothed with a knife or a flat piece of wood, will make the broken place as good as new. The mixture hardens very quickly, so it is best to prepare but a small quantity at a time.

WHAT COAL LOSES BY BEING MADE INTO WHAT COAL LORSE BY BEING MADE INTO CORE.—From an exchange we learn that Con-nelsville coal, which may be taken as the stan-dard of coking coals, weighs 80 pounds to the bushel. When properly coked, 100 bushels of coal yield 125 bushels of coke, weighing 40 pounds to the bushel; that is, 8,000 pounds of coal produce 5,000 pounds of coke, or, in other words, the coal gains 25 per cent. in bulk and loses 35% per cent. in weight.

HORTICULTURE.

Seasonable Hints .--- No 3. [From the Pacific Rural Press.]

ding?

Nobody who possesses a home is satisfied without a few climbers, to twine around the pillars of a verandah or porch, to cover trellises and conceal unsightly dorners and offices. We are often asked what are the best, and we always answer "roses." Honeysuckles and

jessamines, the old familiar forms which, intrinsically beautiful, are so precious from association. To have a posy for every day in the year, one need only to make a judicious selection of climbers. This is a good time to plant them. Let us select with a view to the close-

ness and cleanness of verdure, as well as flow-ers. First of all, therefore, we must choose the Lady Banks and Cherokee rose. Suppose we have a bay window of the usual size. We will plant a Lamargue, and on either side a white and buff Banksis, putting the buff on the side nearest the door or contents of the the side nearest the door or corner of the house. As near the latter as we can have it house. As near the latter as we can have it and cultivate well, we will plant a Wistena. On another side of the door, or near the next window, we will plant Plumbago Capensis, and with it the Trapoleum, which is annual in habit, and requires frequent renewals; or the Persian Jessamine. We will keep our honeyauckles for the rear of the house, and on the lattices we will have a profusion of them, the ever-green and ever-flowing, the blessed old scarlet and orange trumpets, though its foliage is so homely—and a great bush of Cleanthurs or lob-ster's claw. With our honeyauckle, sweet clemaies, some perrennial peas, Solanum .as-

clemates, some perrennial peas, Solanum oas minordes, and the rich foliaged Japan honey. suckle, we can cover up a multitude of archi-tectural sins. Our investment made, in about two years we may look out for a dividend. Lamargue, the banksiss and wisteria have kept Lamargue, the banksias and wisteria have kept an even pace roof-ward, and hang around our cornices in a soft lovingness which expresses all that the precious word home should mean. The large, full Lamargue roses are cups of flower cream, the little daisy-like banksias foam over like froth. The purple clusters of likac bloom are flower creames made to fead the finer. over like froth. The purple clusters of like bloom are flower grapes, made to feed the finest sense. The pale buff of the colored banksia gives relief to the purple lines, and one sees how great an impertinence the presence of any other plant would be in this company. So with the blending of tones with plambago and trapoleum. Keep other things at a dis-tance. The fringed, delicate growth of trapo-leum makes a setting for the plumbago. Clematis requires del.cate treatment. The

Clematis requires delicate treatment. The new, large flowered kinds require protection, and should never be exposed to a "norther." The heavy ones ought to trail over a screen of

The heavy ones ought to trail over a screen of Cherokee rose. Any one who likes to play at geometric gar-dening can find amusement in planting banksia roses in the form of a star, putting a strong root at the points, and a very rich red climbing rose in the center. When they begin to run, fasten them to stakes, and keep them quite near the ground, preserving the form intended by clipping unmanagable aboots. In the sea-son of bloom you will get a mass of flowers which seem like a heap of snow with a live coal in its heart. Cleanthus should have a pillar or a whole window to itself. One bignonia or trumpet creeper should be in every collection, though it is rather cool for it around the bay. It is a rampant grower and full the bey. It is a rampant grower and full bloomer in the winter. J. C. CARR.

Beautiful Horticultural Importations.

[From Pacific Bural Press.]

The horticultural missionaries, who manifest their zeal in the good cause, by entreating the heathens of California to plant trees, should be informed that tree-planting in this, as in most other parts of the United States, has been almost a mania for the last ten years. Consequently all such appeals are like sending flannel shirts to the babies of Africa.

No stimulus is needed in this matter, and if any advice is to be offered for directing this tree-planting movement, it must come from the tree-planting movement, it must come from the highest and best informed sources to be of any avail; for it is evident that a high degree of taste and practical judgment are, and have been employed in this great work. In California, especially, the progressiveness indicated in this direction is remarkable. From information derivad from exchanges

CURIOUS TREES. -- Just beyond the Darbonne CURIOUS TIERS. -Just beyond the Darbonne or Calcasieu river, in the parish of Calcasieu, is a white-oak tree, about two and a half feet in diameter. There are no branches for 25 or 30 fast up. About 12 or 15 feet up, a pine limb or top part of a pine tree, six or eight inches in diameter, and 12 or 16 feetlong, runs at right angles through the center of the tree, inches in diameter, and 12 or 16 feetlong, runs at right angles through the center of the tree, sticking out about the same distance, on either side. It tapers a little to one end, where there are two or three knets, giving it the appearance of a tree top. The oak, where it passes through, is grown closely around it. The pine is rich in turpentine and will not decay. There is no fork or hollow in the oak; but it has the ap-pearance as if a hole had been made and the pine stuck through, after which the oak closed on it by growth. The question is, how did the pines get through the oak, or the oak round the pines get through the size, that divides into two prongs about one a half feet from 'the ground, which after running up like a pair of bowlegs, about fifteen feet, unite in one round compact stem. The prongs are about one and a half feet in diameter; and where they unite above, the tree is larger than either of them, but smaller than bot together. A man can walk between the two prongs, and the tree stands on a land boundary line. Forked trees are very common; but the question here is, how did the two prongs unite so perfectly into one stem above?-Opelousus, 124, Journal.

Thes, A. GARBY'S NURSERIES, at Los Angeles, must form one of the interesting business fea-tures of Southern California. The Mutual Aid alludes to Mr. Garey as follows: As a semi-tropical nurseryman, Mr. Garey occupies the most prominent position of any man on the Pacific coast. During the past nine years he has built up a business that now reaches gross sales of \$75,000 per annum. During the past two years his sales have been so large that he has been compelled to purchase trees to supply his trade, as the quantities missed by him were entirely inadequate to the demand. Especially was this the case as regards the different varie-ties of Northern fruits. Finding that the semi-tropical fruit tree trade was growing beyond his reach, Mr. Garey and other nurserymen, in June, 1873, incorporated the "Co-operative Nursery and Fruit Company of Los Angeles County," with a capital stock of 250,000. This stock was all taken and at a premium before a dollar had been paid in. The company has bought 283 acres of land within and adjoining the city limits, 100 acres of which will be planted out to standard four-wave hid owne trees as THOS. A. GARRY'S NURSERIES, &LOS Angeles, the city limits, 100 scres of which will be planted out to standard four-year-old orange trees, as an orchard, in the spring of 1875, and the same ground will also be covered with nursery be-tween the orchard trees, the plants for which (750,000) are now growing in beds, and aver-age one foot in hight. Mr. Garey is a large stockholder in this company, and is also a di-rector and the president of the company. In January, 1877, he will turn over his entire semi-tropical nursery business to the company and take charge of its affairs. the city limits, 100 scres of which will be ulanted

The Sacramento Beet Sugar Company.

The Board of Directors are H. G. Smith, Phil-ip Scheld, Samuel Lavenson, W. E. Brown, and ulius Wetzlar. The officers are: President and Julius Wetzlar. The officers are: President and Treasurer, Julius Wetzlar; Secretary, A. J. Wetz-lar. The location of the works is two miles from Sacramento, at the intersection of J street and the levee. The land owned by the company com-prises about 700 acres, added to which is 600 acres of leased land, making a total of land oper-led by the company t 200 acres. acres of leased land, making a total of land oper-ated by the company 1,300 acres. The capacity of the works is 80 ton per day, (24 hours); the yield of Beets, per acre, average 12 tons; the varieties of Beets grown are the White, Sicilian and Imperial. The percentage of saccharine matter averages 12% per cent, and of first quality Sugar, 5% per cent. The capital invested is \$300,000. The cost of machinery was \$140,000, that of buildings \$40,000, and that of teams, tools, etc., \$20,000, making a total of \$200,000. that of buildings \$40,000, and that of teams, tools, etc., \$20,000, making a total of \$200,000. The buildings consist of a frame factory 100 by 45 feet; a frame Sugar storehouse 30 by 40 feet; a frame Superintendent's dwelling 20 by 35 feet, 2 stories; a frame boading house 35 by 45 feet; eight frame dwellings 24 by 30 feet; one frame Chinese quarters 50 by 30 feet; a blacksmith shop 30 by 20 feet; three frame granaries, the first 85 by 30 feet, the second 20 by 40 feet, and the third 10 by 15 feet; three large frame cattle stables 100 by 40 feet each; one large frame tool the third to by 15 feet; three large frame cattle stables 100 by 40 feet each; one large frame tool and implement storehouse-shed 20 by 30 feet; and four large frame stables, the first 60 by 30, second 30 by 40, third 35 by 20, and the fourth 60 by 25 feet. They raised their own seed this year, at a saving of \$4,500. They formerly im-ported 10,000 pounds. The cash business for 1873 equalled \$190,000, and that for 1874, \$300,000. Of the land operated, 385 acres are located in Davisville, Yolo County, Cal. The number of white men employed is 150, and that imber of white men employed is 150, and that of Chinese, 500. The company owns its own barrel machinery. The works were in opera-tion in 1873 for five months, and in 1874 for nine months. The machinery consists of five steam engines: No. 1-30-horsepower, square beam, and drives eight pumps; water, vacuum and feed and drives eight pumps; water, vacuum and feed pumps for boilers, gas pumps for carbonic acid gas, and hot water pumps. No. 2–15-horse-power, drives Beet washing machine, elevators and Beet cutters. No. 3–8-horsepower, drives the centrifugal machines, Sugar grinders and the Sugar packing machines. No. 4–5-horsepower, and works the washing machines, elevators and drawing machines. The water is obtained from wells, and the fuel used is wood, of which from 11 to 12 cords every 24 hours are consumed. So to 12 cords every 24 hours are consumed. So carefully has these works been managed, that but one small accident has occurred in two years These engine works require all the steam can be generated in three tubular boilers, 48 feet in diameter. A diffusion battery is used to ex-tract juice in this establishment. The process of manufacture is as follows: The Beets are taken manufacture is as follows: The Beets are taken out of the ground by a two-tined fork, the heads or green part of the Beet is then chopped off with a large cleaver knife, the Beets are loaded on a wagon, transferred to the cars, hauled to the Beet factory storehouse, thrown into a washer, and at the same time assorted (that is, bad or damaged Beets thrown out) passed from there by damaged Beets thrown out), passed from there by an an endless belt with cups to the chopper, chopped into ribbon strips and dumped into the batteries, where steam is inserted; the juice is then forced by water and steam into the botis then forced by water and steam into the bot-tom of the hattery and carried through pipes into a steam drum, forced thence through lime and bone coal into the filterers, returned from there purified into the copper boiler, boiled down to a crystalization point, drawn out from there into tanks, allowed to cool and stand, and then introduced into the centrifugals, from which they come out as pure Sugar, leaving a refuse which is again boiled down and worked over. The Sugar is then taken to the crusher room, either ground or crushed, boxed or barrelled; is then loaded on cars and sent to a ready market.— Journal of Commerce.

DOMESTIC ECONOMY.

3

The Christmas Pudding.

B-"JEANNETTE AND JEANNOT."

If you wish to make a pudding in which every one de-lights, Of a dozen new-laid eggs you must take the yolks and whites: Best them well up in a basin till they thoroughly combine, And shred and chop some suct particularly fine.

Take a pound of well stoned raisins and a pound of currants dried, A pound of powdered sugar and a pound of peel beside: Stir them all well up together with a pound of wheaten

And let them stand and settle for a quarter of an

Then the the pudding in a cloth, and put it in the pot, Bome people like the water cold, and some prefer it hot; But though I don't know which of these two methods I should praise, I know it orgat to boll an hour for every pound it weighs.

Ohi if I were Queen of France, or, better still, Pope of I'd have a Obristmas pudding every day I dined at

home; And as for other puddings, whatever they might be, Why, those who like the nasty things should est them all for me.

UNFERMENTED WINE .- This article is coming quite extensively into use for church purposes and when mixed with water it also forms a and when mixed with water it also forms a very refreahing summer drink. In order to prepare it the grapes should be allowed to thoroughly ripen. They are then picked and the stems and all green and rotten grapes re-moved. The grapes are then orushed and pressed in the usual manner. The juice may be put directly into bottles, or it may be first concentrated somewhat by botting, and then bottled; in either case the bottles are put into hot water and brought to the bottles are put into hot water and brought to the bottles are put into hot water and brought to the bottles are from the fire and cork them tightly, while still hot, wiring in the corks. Then replace them and continue the boiling another hour. Glass jbot-tles are better for this purpose than tin cans, though the latter may be used. An analysis of a specimen prepared in New Jersey gave the following result: alcohol, none; sugar and ex-tract, 23.00; ash. 40; water, 76.60; total 100.00. This had probably been concentrated some-This had probably been concentrated some-what before bottling. The flavor was fine. Some acid tartarate of potassium had crystallized out.

HOME MADE CANDY .--- Use a new tin basin; HOME MADE CANDY.---Use a new tin basin; put into it four tablespoons of water, one pound of coffee sugar, one teaspoonful of good cream tartar; boil, stiring coustantly toj avoid burning. After it begins to have a sappy ap-pearance try it often by dropping a little in cold water and if done it will at once become brittle. Butter an earthen dish and pour the hot candy into it, that it may cool just enough to handle. Flavor to taste with oil of peppermint, winter-green, assafras or lemon. Two drops of oil will flavor it strong. For variety, divide into three or four parts and flavor differently by touching one kind of oil to each. Work in the hands at once; the more it is pulled the whiter it will get. whiter it will get.

How I MADE MY CATSUP.—I selected fair ripe tomatoes, out out all blemishes, also the hard parts about the stem end, then alice them into a porcelain kettle, filling it fall; added a red pepper and put the kettle over a slow fire to stew gradually stirring to prevent burning. When reduced to half the original quantity I strain the whole through a common wire sieve. To five pounds of the pulp I added one and one-half pounds of sugar, one pint of eider vinegar, one tablespoonful of cloves, one of allspice, two of einnamon, one of salt. I put the mixture back over the fire and boiled until the thickness suited. When mine was tested the only fault found was that it was too good to last.

Scorce BROTH.—Put a teacupful of pearl barley into 4 quarts of cold water and let it boil; add 2 pounds of scrag of mutton or thin flank of beef, 2 onions, 2 turnips, 2 carrots cut in dice, and 1 carrot grated; boil slowly for three hours; add sait and pepper to taste be-fore removing from the fire.

To Sweeten SALT PORK .- Out as many slices as will be required for breakfast the even-ing previous, and soak till morning in sweet milk and water; then rinse till the water is clear, and fry. The pork will be found very

GOOD HEALTH. Imaginative Medicine.

Charms, smulets, talismans and phylacteries all belong to the list of articles which produce

imaginative cures; seeing that the persons who trust to them believe in some good obtainable

from them, in purse or in person, in health or in welfare; and if the good does come, more assuredly the imagination is the channel through which it approaches. Two or three years ago, at a town in Worcestershire, after

the inquest on the body of a man drowned in the Severn, a woman applied to the chief con-stable for permission to draw the hand of her

son, a boy eight or nine years of age, nine times across the dead man's throat, in order to

bring about the removal of a wen from the boy' neck. In another instance, in the same county, this was actually done, with fatal re-sults; for the man had died of typhoid fever which was in this way communicated to severa

living persons. A ring made of the hinge of a coffin, and a rusty old sword hung by the bed

How Poon Eyes ARE MADE .-- I have, during

A WORD ABOUT THE LUNGS.—In nearly all cases the natural capacity and area of the chest are sufficient for all the nees of respiration. But the capacity of the chest may be diminished treatment of the fibre is according to the process usually pursued in this findustry, and the car-bolic scid may be added to the oleaginous or astringent elements used by hat manufacturers. How to SHARPEN STEEL DEILLS.—It is not that it will pierce any known substance but generally known that steel can be made so hard that it will pierce any known substance but great trouble in getting the points of their dilabard. Many jewelers and lapidaries, have that require a hard point we recommend the following manner of manipulation. The drills abound by heb hold if small, by hot pinchers How TO SHARPEN STEEL DRILLS.—It is not generally known that steel can be made so hard that it will pierce any known substance but a diamond. Many jewelers and lapidaries, have great trouble in getting the points of their drils hard enough to pierce an amethyst. For the benefit of miners and others using drills that require a hard point we recommend the following manner of manipulation. The drills should be held, if small, by hot pinchers or tongs, while tempering. First heat the tool to a white heat and then press it into a stick of sealing wax, leave it but a second there, and then stick it into the wax in another place. This operation is rapidly repeated until the graver is too cool to enter the wax. In turn-ing or drilling the tool is moistened with oil of turpentine. turpentine.

CASTING INGOTS .- Mr. Leffler, of Sheffield. iron merchant, has patented some improve ments in moulding for casting ingots. The novelty of these improvements consists in forming a central monid, and in surrounding it with moulds in such a manner that each side of the central mould shall form a side or end of one or more of the surrounding moulds by of one or more of the surrounding moulds by means of hollow iron pieces or iron plate lin-ings, fitted closely into holes or appertures made in the lower parts of the sides of the central mould and covering the surrounding moulds with a stopper, having a hole for the escape of air and gasses, and in forming the moulds by preference open at the bottom, and placing them, during the process of casting, upon a bottom plate.

A Loxe Corrnetize First.—The longest blast of a charcoal furnace yet announced is that of the Shelby Iron company's furnace, at Shelby, Alabama. It has now been working continu-ously for three years and seven months, and has made an average of 100 tons per week since it blaw in. The greater part of the pro-duction has been an excellent iron for car wheel purposes, and its quality ranks it among our very best American irons. The ores used are limosites, yielding, when reasted, about 53 to 54 per cent. in the furnace. The consump-tion of charcoal has been 130 bushels (of 18% b.) per ton of pig iron produce. The liming of the furnace is of fire brick, made at the warks from olsy found in the neighborhood. It is asid that a rife bullet cannot penetrate

It is said that a rifle bullet cannot penetrate thirty sheets of paper.

A WORD ABOUT THE LUNGS .- In nearly all cases the natural capacity and area of the chest

are iso injured by being over-worked, strained or made to do more than any reasonable esti mateof their powers would allow.

WALKING AS AN EXERCISE.-There is no exer-WLEING AS AN EXERCISE.—There is no exer-cise D fine as walking, if one knows how to take t. When a disease in one part of the body zeoomes incurable, the physician will sometines attack some other part with the design of diverting the sickness from its strong-hold. is a man who uses his head till his brain is weary needs to tire his legs. One complains that he cannot walk. It is because he does not observe the rules. Walk easily. Take time and do not hurry vourself into ex-

Take time and do not hurry yourself into ex-baustion. By walking a short distance at first, and gradually increasing it, one soon is able to walk eigh or ten miles without fatigue, and with good esuits to health. "At the end of a mile," says an old pedestrian, "walking is de-lightful. You wouldn't ride if you could." The road to health is too narrow for wheels.

DYSPEPSIA .- "Dyspepsis is the demon of "Instruct,..." Dyspepsis is the demon of America." says the Philadelphia Bulletin. "Making hass to get rich, America has neg-lected her stonach; she has forgotten to learn how to enjoy her riches, and her generations of sallow, nervous, unstrung men and women of sallow, nervous, unstruct in the sturdiness of their forefather until men and women reach a point where they can take time to dine."

To Stop Nou BLENDING. -- Two small arte-ries branching up from the main arteries on each side of the neek, and passing over the outside of the jawbone, supply the face with blood. If the nee bleeds from the right nee-tril, for instance, pass the finger along the edge of the right jaw till the beating of the artery is full. Frees hard upon it for five minutes, and the bleeding will cease.

A Box wirm a Brann.-A family named Mc-Kee, recently arrived at Los Angeles, have a boy of fifteen, who weighs 200 pounds, and sports a heavy beard and moustache.

information derived from our exchanges and from inquiries and facts communicated by correspondents, we are impressed with the concorrespondents, we are impressed with the con-viction, that not only are trees being planted in abundance, but that there is a sufficiency of taste and judgment employed in the matter. The State University is keeping pace with the popular taste in this direction, and is doing much to add to the wealth of California in its timber, fruit and ornamental possessions, and capitalists are manifesting a commendable in-terest in this subject, and are spending their money in thus improving the promety owned terest in this subject, and are spreading tand money in thus improving the property owned by them; while people of more limited means are steadily improving and beautifying their possessions in cities and villages as well as in the country. The recent importations referred to are

twenty-four varieties of maple from Japan which we had the satisfaction of examining at the establishment of R. J. Trumbull in this city. The trees were accompanied with beauti-fully colored plates descriptive of the foliage of all the varieties. These plates were executed of all the varieties. These plates were executed by the Japanese, the coloring as well as other parts being done by hand. A leaf of every one of the 24 varieties is given, its form and color being represented in all their minutia. The varieties of folinge displayed here is remark-able, many of the leaves being extremely unique in form and color. The importation consists of six taxes of each

in form and color. The importation consists of six trees of each variety; all grafts and all in excellent condition for planting. They were sent here to a gentle-man who recently visited Japan, and observing these trees in full foliage there, resolved to try them in California. A large portion of them were engaged befors the box was open, and on learning the names of the parties who obtained them, we were satisfied that they had fallen into good hands. The growth of this interesting family of maples will be watched with a good deal of interest by horticulturists generally, as well as by those who were fortunate enough to procure them.

NAMES OF PLANTS-ENGLISH VS. LATIN.-My friend asks, "What is this pretty flower?" "Galasine arurea." "What a long name!" "I cannot aborten it." "But why have a Latin name? Better call it Blue Smiler in plain English." "Then you like such names as Shamrock, Blue-bells, Eglantine and Culow-keys?" "Certainly, every one can understand them." "You can recognize the plants?" "Easily." "Well, I can show you in point andless discussions as to what they are. On the other hand, I defy you to produce two per-sons who disagree as to what is meant by Eucharis Amazonica. Paradoxical as it may seem, Latin is, in such matters, more intelligi-ble even to an Englishman than English."-Cor. Journal of Horticulture. NAMES OF PLANTS-ENGLISH VS. LATIN .-

DANGER IN CRAMPAGNE .- A girl in South Carolina, while playing with an empty cham-pagne bottle, fall down, bucke the bottle, and cut her throat with the glass. As a gun is dan-gerous without lock, stock or barrel, so is a champagne bottle dangerous, whether it is aded or not

PLANETARY DISTANCES. - An Armstrong gun throws shot at the rate of 400 yards a second, at its initial discharge. If it should continue on at this rate it would take it 13 years to reach the sun. The rate of motion at which the earth travels in space would take our planet to the sun in 125 days.

near as ood as fresh.

GERMAN TOAST .- To one egg, beaten well, add one cup sweet milk or cream, season with a little salt and pepper. Cut in slices stale bread, and dip in the milk to moisten, and fry in butter on griddle. This we think is an erin butter on griddle. This tra nice dish for breakfast.

NICE FRENCH CARE .- Two cups of sugar, one half cup of butter, four eggs, one cup of milk. three cups of flour, one teaspoonful of sods, and two tesspoonsful of cream of tartar. This makes two loaves.

To DISGUISE CASTOR OIL.-Rub up two drops of oil of cinnamon with an ounce of glycerine and add an ounce of castor oil. Children will take it as a luxury, and ask for more.

ACCIDENTAL DISCOVERIES IN SCIENCE. - Accident has had much to do with chemical discov-eries, more perhaps in former times than now, when researches are undertaken with some defwhen researches are undertaken with some def-inite end in view; but how many of the discov-eries which have led to the most brilliant and important results, may not be called acciden-tal? We may question if Davy expected to find potassium when acting on potassa with a vol-taic battery, although, having already observed the decomposition of other metallic oxides he may have had an inkling of the fact. Bunsen did not expect to find two new metals when ex-amining the residue from the Durckheim wa-ters. Crooks, when looking for selenium, ac-cidentally found thallium. Perkins, when he found that suniline, when acted on by chro-mic acid, gave a fine color, could scarcely have expected the enormous manufacture of thos analogous dyes which is carried on at the pres ent day.

DIFFERENCE OF TEMPERATURES OF CITY AND COUNTRY.—The temperature in the city is high-er than in the country, where in general it is cooler, especially during clear nights, when the difference may amount to 13° Fahr. Then the extreme temperature for heat is higher in the city, while that for cold is lower in the country; but in the average differences between heat and cold the country supresses the city which is cold the country surpasses the city, which is more moderate.

THE AMERICAN ELECTRICAL SOCIETT. — An as-sociation to be known under the above name, was recently organized at Ohleago, Illinois. The objects are an interchange of knowledge, professional improvement of members, the ad-vancement of electrical and telegraphic sci-ence, and the establishment of a central point of reference. General Anson Stager, of Chi-cago, was elected president, and Mr. C. H. Haskins, of Milwaukee, vice president.