

SPONTANEOUS EXPLOSION OF TOUGHENED GLASS

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were removed the glass would no longer be tough.—Scientific American. THE USES OF THE LEMON.—The London Lancet says: "Few people know the value of lemon-juice. A piece of lemon bound upon a corn will cure it in a few days; it should be renewed night and morning. A free use of lemon-juice and sugar will always relieve a cough. Most people feel poorly in the spring, but if they would eat a lemon before breakfast every day for a week—with or without sugar, as they like—they would find it better than any medicine. Lemon-juice, used according to this recipe, will sometimes cure consump-tion; Pot a dozen lemons into cold water and slowly bring to a boil; boil slowly until the lemons are soft, then squeeze until all the juice is extracted; add sugar to your taste and drink. In this way use one dozen lemons a day. If they cause pain, lessen the quantity and use only five or six a day until you are better, and then begin again with a dozen a day. After using five or six dezen the patient will begin to gain flesh and enjoy food. Hold on to the lemons, and still use them very free-ly for several weeks more. Another use for lemons is for a refreshing drink in summer, or in sickness at any time. Prepare as directed above and add water and sugar. But in order to have this keep well, after boiling the lemons squeeze and strain carefully; then to every half pint of juice add one pound of loaf or crushed sugar, boil and stir a few minutesmore until the sugar is dissolved, skim carefully and bottle. You will get more juice from the lemons by boiling them, and the preparation keeps better."

boing them, and the preparation keeps better. PLUMBING AND RUM SELLING.—In commen-ting upon the report of a sanitary enquirer in New York, *The Sanitarian* says:—In addition to an enormous quantity of such villainous work in New York and Brooklyn as that above described, it is a common practice for plum-bers to put in "safety pans" under the wash-stands of the best houses, against the danger t holds to the freezoing. These care around bers to put in "safety pans" under the wash-stands of the best houses, against the danger of leaks to the frescoing. These pans are us-nally provided with ∞ traps, of about ten inches in diameter, connected with the house drain-proverse ostansibly to prevent the escape of sewer-gas into the rooms, and yet they are never sealed —never have any water in them unless there is a leak under the washstand ! Not long since we were called upon to ex-amine a first-class house in which there had recently been two deaths from diphtheria the washstand. throughout the house were all recently been two deaths from diphtheria: the washstand. throughout the house were all thus provided with these death traps—not one of which had any water in it; all the cham-bers were in free communication with the main house sewer-pipe. And the house was "ele-gantly" plambed throughout, without regard to expense, or common-sense. As commonly pursued, the trade of plumbing is fraught with

danger comparable only with rum-selling, and scarcely less fatal to the health and lives of the people; and like it, should either be wholly prohibited or placed under such legal restrictions as will effectually protect the health and lives of the people.

restrictions as will effectually protect the health and lives of the people. A RECENT discovery in telegraphy is likely, according to the Student's Journal, to cause a revolution in medical pratice. Hitherto it has been necessary for country patients who wish to consult a London physician either to come to town or to send for the physician to visit them at their country homes. But it is not improbable that before long physicians will be able to remaining their consulting rooms and be kept advised by telegraph as to the exact state of their patients without regard to distance. It is reported that a physician, Dr. Upham, of Salem, Mass., recently demonstrated to an audience to which he was lecturing the varia-tions of the pulse in certain diseases by caus-ing the lecture-room to be placed in telegra-phic communication with the City Hospital at Boston, fifteen miles distant; and then, by means of a special apparatus and a vibrating ray of magnesium light, the pulse-beats were exhibited upon the wall. By a judicious combination of Dr. Upham's apparatus and the telephone, a patient may possibly be sub-jected to a physical examination sufficient to diagnose heart and lung disease without going near the physician.—Methodist.

SHAMOY SKINS are, as every one knows SHAMOY SKINS are, as every one knows, largely used for many purposes—for inside linings of gloves, &c., and for cleaning pur-poses in many departments. It is not derived from the skin of the chamois, as is sometimes ignorantly supposed, from the sound of the name, which results from the process, but from the flesh-side of the sheep-skins which have been split. The skins, after having been passed in the ordinary way through the earlier processes of washing, &c., are soaked first in lime-water and next in a mixture of bran and water, or in a weak infusion of sulphuric acid, inne-water and next in a mixture of oran and water, or in a weak infusion of sulphuric acid, after which they are beaten in a mill till no moisture remains in them. Fish oil is then poured over the skins, which are again beaten till they are thoroughly impregnated with it. This is done over and over again until the skins can receive no more oil; and then they are hung for a short time in a room heated up are hung for a short time in a room heated up to a certain temperature. They are then care-fully washed in a solution of potash, which removes any oil that may still remain about the leather; and thus we have the shamoy skin of daily use.—Good Words.

the leather; and thus we have the shamoy skin of daily use.—Good Words. A SUNLIGHT STOVE.—A successful attempt has now been made te store up the heat of the sun's rays for immediate and practical use. It was carried out in India. The rays were first made to pass through glass fixed an inch away from the actual apparatus, which was conse-quently entirely surrounded by hot air. The enclosed apparatus, a copper receptacle, was blackened outside—a color which is well known to absorb heat, as any one may prove by wear-ing a black coat on a warm summer's day. The heat thus retained was further assisted by a conical reflector of silvered glass, and a quantity of mutton and vegetables placed within was perfectly cooked. To further aid in retaining the absorbed heat, when the appa-ratus was removed from the sunlight it was covered with a rug, as ladies place a "cosy" over the teapot to draw the tea. Since then the inventor has improved upon the process, and can now cook chops or steaks in the open air as quickly as by an ordinary fire, and entirely by the sun's rays. The most remark-able point is, perhaps, that the heat is kept in the apparatus for as long as three and a half hours.—Cassell's Magazine.

SLEEP AS A MEDICINE.—A physician says that the cry for rest has always been louder than the cry for food. Not that it is more im-portant, but it is often harder to obtain. The best rest comes from sound sleep. Of two men or women otherwise equal, the one who sleeps the better will be the more healthy and effi-cient. Sleep will do much to cure irritability of temper, peevishness and uncasiness. It will build up and make strong a weak body. It will cure a headache. It will cure a broken spirit. It will cure sorrow. Indeed, we might make a long list of nervous and other malaches that sleep will do met a room, a clear conscience, an avoidance of stimulants and narcotics. For those who are overworked, haggard, nervous, who pass sleepless nights, we commend the adoption of such habits as will secure sleep.—*Woonsocket Patriot*.

WHY COLORS CAN NEVER BE PHOTO

more rapid produce the sensation of the mind known as violet; beats less rapid, that known as red. The violet and the red are nothing but the vibrations of the other until they reach the optic nerve and communicate to that the vibrations which the brain trans-lates. Until collodion, or some other sensitive agent, can be made to vibrate like the optic nerve, and can be endowed with intelligence like the brain, the undulations that fall upon it in a ray of light will remain undulations and nothing more. In other words, it is as impossible to photograph color as it is to pho-tograph sound.—N. Y. Sun. It was long supposed that the brackishness

impossible to photograph color as it is to pho-tograph sound.—N. Y. Sun. It was long supposed that the brackishness of Salt river, Arizona, was caused by the stream running over a bed of salt somewhere along its course. Its waters are pure and fresh from where it heads in the White moun-tains to within 50 miles where it empties into the Gila. Fifty miles from its junction with the Gila there comes into it a stream of water that is intensely salt. This stream pours out of the side of a large mountain, and is from 20 to 30 feet deep. It is very rapid, and pours into the salt river a great volume of water. Here could be easily manufactured sufficient salt to supply the markets of the world. All that would be necessary would be to dig ditches and lead the brine to basins in the near-est deserts. The heat of the sun would make the salt. Were there a railroad near the stream its waters would doubtless soon be tunned and led to immense evaporating ponds. it is supposed that the interior of the moun-tain, out of which the stream flows, is largely composed of rock salt—*Scientific American*. ANOTHER new use of the telephone is in the flow read

composed of rock salt—Scientific American. ANOTHER new use of the telephone is in the Norwegian herring fisheries. The fishing sea-son takes place when the herrings come into the shoals to deposit their eggs; but it often happens that the fish accomplish their purpose and go back into deep water before all the fishermen can be warned. Some 120 miles of submarine cable have been laid and telephones connected with it, so that all the fishermen on the coast can be immediately notified. the coast can be immediately notified.

CHROMATE OF NEAD gives a beautiful yellow color to candy but is, unfortunately, poisonous. Conscientious makers do not however use it in quantities large enough to be immediately fatal, unless too much candy is eaten. The test is simple, dissolve the candy in water and if there is an insoluble yellow residuum it is probably chromate of lead.

A COMPARISON of ancient records with modern observations tends to show that diphtheria is an old disease with a new name. It made great havoc in New England, especially in New Hampshire and Maine, at three different epochs, 1735 —'8, 1786 and 1832.

DOMESTIC

CLEANING AND COOKING DRIED FRUIT.

By MRS. HENRY WARD BEECHER.

All dried fruit should be carefully picked over and throughly washed before it is put to

But it is a great mistake to put fruit into water and leave it, under the impression that it must soak awhile before dirt can be washed off. Put the dried fruit into a pan of tepid water and wash throughly but rapidly. Rub it with the hands briskly and take it from the water as soon as possible, leaving it to drain a short time before putting it in soak for the night. If dried fruit is thus speedily washed it loses very little, if any, of its flavor. All dried fruit requires to be soaked an hour or two, and unsually all night, before ready to be cooked. If it is put on to cook without soaking, it will be hard and tough; but use only water enough to cover it, or no more than will be needed to cook it in. If too much water is used it will make the fruit when But it is a great mistake to put fruit into water

but use only water enough to cover it, or no more than will be needed to cook it in. If too much water is used it will make the fruit when cooked insipid and tasteless. Not a drop of the water in which it is soaked can be spared. Half of the best juices of the fruit will be found in this water, but if cooked in it and properly looked after they will be so united as to be both alike good. No sweetening should be added to the fruit until it is perfectly soft, else the sugar will make the sauce quite hard and unpalatable. But when the fruit has swelled to its natural proportions and is as tender as if just gather-ed, then put in whatever sweetening is need-ed and leave it to simmer till the juice is like a richsyrup and the fruit is throughly season-ed by it. ed by it.

ed by it. In preparing citron, raisins or ourrents for oake or pies almost every cook has her own particular ideas, and will follow them, some-times unwisely, if the mistress does not in-terfore. *Citron*, having a large, smooth surface, re-quires less attention than smaller fruits which become quite wrinkled and shriveled when dried, and in these wrinkles dust and dirt find good hiding places. The citron can be wiped

off with a damp cloth before slicing it up, or well brushed if it has lint or dust adhering to c, or if it does not look clean it can be sorap-ed cently with a knife. The stoneless of Sultana, should be picked over carefully, remove all the stems and dirit that an be done with the fugers, and then, by taking them a few at a time in a clean line oloth, if not extremely dirty, they can be rub-bed quite clean without washing and if done with care will be perfectly fitted for use. That the Zante currents are much more fil-thy than any of the dried fruit to be found in our market. They are usually matted to of dirt so closely blended with them that we know of no way by which currants may be made passably clean but by washing. They need to be first rubbed in the hands so as to separate them and shake out the loose dirt; then put into a bowl of water, not many at a time, and well and quickly rubbed; then as a time, and well and quickly rubbed; then as a time, and well and quickly rubbed; then so a difavor is lost, but we lose much dirt also. Zante currents are so dirty and mussy looking to that it nover seems possible to get them so clean but that they retain, even when in pies or cake, an earthy dirty taste. We never feel tempted to use them. but think washing is the only way to make them clean enough to eat.—*Christian Union*.

DRESSING ASPARAGUS.—Cut off as much of the white end of the sprouts as is necessary to enable them to be conveniently handled; wash lightly. The English carefully scrape each separate stem, but what is to be gained by it they do not say.

DANDELIONS, MUSTAED, ETC.—Pick over, wash, and rinse throughly; put into an abun-dance of boiling water and boil rapidly until they are done, which you may know by mash-ing them between the fingers. Take up, drain and serve the same as spinach.

MILKWEED.-Cut the stems when about five MILKWEED.—Cut the stems when about five or six inches high, trimming off such leaves as appear to be tough ; boil them in a medium quantity of water, take up and drain, very much the same as asparagus. The time re-quired is twenty minutes, if they are very tender. The succulent stems are the most delicate part, and may be cut in bit and stew-ed like asparagus pease. Poke shoots may be cooked in a smaller manner.—JULIA COLMAN.

cooked in a smaller manner.—JULIA COLMAN. STEWING ASPARAGUS.—Tie the dressed aspar-agus in bundles of half a dozen spreuts each, and drop them into boiling water sufficient to cover them; boil gently for eighteen or twenty minutes, or until the green portion is quite tender—though it should not fall to pieces when handled. Cut and remove the strings and carefully place them lengthwise on a warm platter, and tilt it slightly for a few minutes to drain. Serve by placing a few on each plate and cut the green and soft portions.

DIALE and cut the green and soft portions. SPINACH.—Wash spinach carefully in an abundance of water; pick off all decayed leaves, and rinse; put into a pot with no water ex-cept what clings to it from the rinsing; cover close and cook gently till tender, which will require from twenty to thirty minutes, accord-ing to its succulence; then take up into a colander, place it over the pot to drain, cover-ing it to keep it warm. If you have a per-forated mould it is very convenient to press it into that, and when drained turn it out on a platter to serve, being careful to keep it warm.

warm. THE HATE, with some people, is a subject of anxiety sooner or later. I wish I could give a receipt for keeping it on the female head and off the female lip; to keep it always glossy and bright, and prevent it from turning grey. I cannot do that, however, but I can remind you that the state of the health exerts a wonderful influence over the appearance of the hair. This is the best in the lower ani-muls. In the dog, for example, a harsh dry coat is sufficient to tell the skillful veterinary surgeon that there is illness about the animal somewhere. And in the human being an un-healthy appearance of either hair or scalp, can-not exist with perfect salubrity of body. We all know that some strong and sudden affec-tions of the mind, such as grief or fear, are capable of whitening the hair in even a single night; we know, too, that the worry and tear capable of whitening the nair in even a single night; we know, too, that the worry and tear of life bleach the hair by a slower process; but it is more difficult to believe that hair once whitened, unless by age, often regains a por-tion at least of its colour without the aid of artificial means; but this, I think, has been proced

artificial means; but this, I think, has been proved Now, all that is required in order to keep the hair beautiful, with a healthy person, is occasional washing, using eggs instead of soap and the use of a good though not too hard hair-brush. It is not the hair itself that is capable of being acted upon by these means but the scalp—the soil, so to speak, in which it grows. "Family Doctor in Cassells Magazine.