Scientific American.

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in every garb. Patent pills and patent medi- sin in solution, and brown soap contains recines of every description are saintly looking sin also. Soap and soda, and washing will monitors, but they remind us of what Pollock says about the hypocritical preacher, who "robbed heaven of its livery to serve the devil in." It is a great pity that the word patent should be so much abused-but it shows cines are not allowed to occupy the wholefield of gullibility. Other things have just as good fault with them for standing on their privilesometimes of a very questionable sort) our ly on Sabbath morning. gentle women folks are made the tender subjects of listening to the plausible stories of all the quacks, and taking all they say for gospel. What nostrums in boxes and bottles would be tumbled into the gutters, if at one glance, a true knowledge of their contents was to be revealed to those who think they effect a saving in family expenditures, by a little reduction in the yearly consumption of such trash. But a truce to medicines-the bugle sounds to the charge of labor-saving-soap. The conflict may not be very glorious to men folks, but it is just sticks as men with bayonets, when an enemy no case be disagreeable, if common sense and invades their soil and so with *labor-scalap*, the above suggestions be attended to. invades their soil, and so with labor-saving soap in its line. Within the past year we have seen more notices ofnew discoveries having been made to bless good housewives, by washing their clothes for them in a twinkling, without either pounder or scrub-board, than we ever remember to have seen in the same space of time before. One ingenious soul down East here finds out a substance to wash clothes out a substance to wash the clothes without the scrubbing, and another out North, not to be behind, discovers some plan and some substance, to wash, dry, bleach, and iron the clothes at one operation, just by tumbling them into a box and turning a crank. What philan-,

move all dirt and impurities from them, such | it leave behind on the clothes. as greasy matters, &c. The most sensible way to do this and the scientific way, is to ! find out a plan to separate these impurities from the clothes, in the easiest manner. For that of New York; but a recent Parliamentathis purpose some substance is required for ry paper proves conclusively that we were very which the dirt, &c., has a greater affinity than for the clothes, and which, when they come in the said substance or substances. A third substance is required to act as a detergent, miles in length. It now numbers 2,336,960 ٢D mended as a mixture, with dissolved soap, but of heathen priests.

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soda, because it is clear in color, and potash is Quackery assumes every shape and appears not. In camphene, there is always a little re- distinct organic products, which are usually kept in the shops, and it enters into the comonly remove those substances from clothes, which are mechanically combined with clothes.

The labor in washing clothes can be performed, with much ease, by some labor-saving machine,-but there are some machines with be assumed as types of the rest : the value of a name, and the craft of those this name that are arrant hypocrites, being who know its importance. But quack medi- both less effective and requiring more severe labor than pounding and scrubbing. Plenty of clear rinsing water is the life of clothes. a right to do so as they have, and who can find All the soap must be completely washed away, or else there will be zebra streaks in the goodges. As it is charity to be indulgent, (but man's linens, and then for sour looks, especial-

TO REMOVE IRON SPOTS.

Oh, what a fall of quackery there would be if oxalic acid. This acid lookslike salt and is a olive oil, concrete at a temperature higher chemistry ruled the kitchen, parlor, and hall. poison. It should therefore be placed out of than the freezing point of water; some are sothe reach of children. To use it, put some of lid at common temperatures, such as cocoathe salts on the iron spot and pour hot water nut oil. Some of these oils when exposed to out of a jug on it, till the salts are dissolved, | air absorb oxygen, and gradually harden, formand the spot will disappear. The spot should ing a kind of varnish; these are called drying then be well washed in water.

too warm. This is what hurts the hands and All these oils, like the different kinds of fat, spoils their looks, and the steam makes the la- consist of two proximate principles, called bor more arduous. Washing is not such disa- stearine and elaine : the former is the fatty as honorable for women to charge with broom- greeable work to some as to others, and will in portion, which first concretes on cooling the

and deeming chemistry a useful part of woman's education, I have studied the subject and gaseous products, among which carburetwith some attention, because it is one of great ted hydrogen, in several of its forms, predomiinterest to every family. I may at some other nates; hence the use of these oils, when volatime seek the indulgence of your columns from tilized and burned by the aid of a wick, as which I have gained more information relating to such subjects, than by the perusal of many without pounding; another out West finds books. In the meantime I will subscribe myself

MRS. SOMEBODY. Boston, Dec., 1849.

N. B.-If ammonia was not so dear, I am confident that if all white linen was handled | luble in water, forming the perfumed or mediin a weak solution of it for about five minutes cated waters, such as rose and peppermint wa_ stems. This imitation soon gave way to that thropists, noble, magnanimous, ingenious men. before final rinsing, that a most astonishing ter; they are mostly soluble in alcohol, form-The principle of washing clothes, is to re- benefit would be experienced-not a spot would ing essences. A few of them, such as oil of ture, and more capable of assuming a varie-

Great Increase of London.

We have often thought that no city in the world, could show such a rapid increase as much mistaken. In ten years, from 1839 to 1849, the increase of the inhabitants of Loncontact, will leave the clothes and unite with don has been 325,904; and 64,058 houses have been erected, 1,642 new streets opened, of 200 (cleanser) which, when mixed along with the inhabitans. What a Babel! There are some clothes, the chemical compound formed by the districts in London occupied wholly by Jews, ferous plant growing in Persia. The root redirt and the substance spoken of, will unite; and other districts by other foreigners. There and which, when poured out of the vessel in are vast masses of population aliens to each color: on cutting it transversely, the asafætiwhich the clothes are placed, will carry the im- other in speech, occupation and social culture. da exudes in form of a white thick juice, like purities all away, and leave the clothes clean. It is believed in England that London is just cream; which, from exposure to the air, be-Well, the best substance ever discovered to re- as young and vigorous as ever, and that the comes yellower and yellower, and at last of a move the dirt from clothes, by uniting with it, population is likely to augment for many years, dark brown color. It is very apt to run into is good soap, which is soluble in water, and but it is believed that its increase must be putrefaction; and hence those who collect it therefore it removes the dirt, which, by mixing spread over other areas beside the present city carefully defend it from the sun. The fresh with water, is carried away with it in the rins- proper, and that cities like that of Brooklyn and juice has an excessively strong smell, which ing, leaving the clothes clean. Soap is made . Williamsburgh, somewhat distant from it, but grows weaker and weaker upon keeping; a of grease and an alkali. Grease or oil will as auxiliaries to drain off the press from the single dram of the fresh fluid juice smells not mix of themselves with water, but when centre, will spring up. To the credit of Lon more than a hundred pounds of the dry asfæticombined with an alkali, the grease becomes don, be it said, that the habitations are more da brought to us. The Persians are commonsoluble in water. (I use the common terms spacious, and that far fewer people are packed by obliged to hire ships on purpose for its carto render the matter plain to all.) This should in the same space than there used to be two riage, as scarcely any one will receive it along teach us that it is the alkali-such as soda or centuries ago-narrow lanes have given place with other commodities, its stench infecting potash-that dissolves the animal substance, to wide streets and spacious courts. In 1700, every thing that comes near it. and makes it soluble in water. It is reasona- within the walls of London, there were 139,- The common asafætida of the shops is of a ble, then, to suppose that if clothes are steep- 000 inhabitants, and in 1841 only 54,626 in yellowish or brownish color, unctuous and ed for about an hour or two before washing, in | the same space. But London and all other tough, of an acrid or biting taste, and a strong clean milk-warm water, in which has been great cities has a large debased population. disagreeable smell, resembling that of garlic. dissolved some salts of soda, that it will sof The late execution of the Mannings showed From four ounces Neumann obtained by recten the grease matters in the clothes, and ren- this :-Dickens declared that such another tified spirit, two ounces six drams and a half der them more susceptible of having all the sight could not be witnessed in any heathen of resinous extract; and afterward, by water, other impurities removed by the soap and fi- land; in that respect we believe that he is three drams and half a scruple of gummy exnally, by rinsing in clean water. It would be mistaken, more especially as he wrote from tract, about six drams and a scruple of earthy a saving in the tear and wear of scrubbing the impulse of the moment, and forgot that in matter remaining undissolved. On applying clothes, if the expense of an extra pound of some of her Majesty's dominions, women are water at first, he gained, from four ounces, good soap, was not grudged in washing. — sometimes yet devoted to the funeral pyre, one ounce three scruples and a half of gummy Camphene and turpentine have been recom- amid the clashing of cymbals and the chaunts extract.

OIIs. The term oil is applied to two dissimilar and called fixed oils and volatile oils. The fixed origin; they are compounds of carbon, hydro- ; satories. gen and oxygen; the relative proportions vary but little in the several species. The following analyses of olive and spermaceti oil may

			live Oil.	Spermaceti	0:1
Carbon	-	-	772	780	011.
Hydrogen		-	133	118	
Oxygen	-	-	95	102	
		1000		1000	

The fixed oils abound in the fruit and seed of certain plants : they are lighter than water, unctuous and insipid, or nearly so; some of these require a low temperature for their con-The best thing to take out iron spots is gelation, such as linseed oil; others, such as

oils, and are the basis of paints, such as lin-The water for washing should never be used seed oil; others become rancid, as almond oil. oil, and from which the elaine, or oily portion, may be separated by pressure. These oils Having had some experience in the line, cannot be volatilized without decomposition. At a red heat they are resolved into volatile sources of artificial light. The action of the alkali on the fat oils is highly important, as forming soap.

> The volatile oils are generally obtained by distilling the vegetables, which afford them, with water; they fluctuate in density a little on either stee of water; they are sparingly soturpentine, of lemon peel, of copivi balsam, &c., are hydro-carbons, that is, consist of carbon and hydrogen only; the greater number, however, contain oxygen as one of their ultimate elements. They are chiefly used in medicine and in perfumery, and a few of them are extensively employed in the arts as vehicles for colors, and in the manufacture of varnishes; this is especially the case with oil of turpentine.

Asafœtida.

Asafætida is obtained from a large umbellisembles a large parsnep externally, of a black

Asafcetida is administered in nervous and cent of debt, and has money in the bank.

hystoric affections, as a deobstruent, and sometimes as an anthelmintic. A tincture of it is position of the compound galbanum pill of the or fat oils are either of vegetable or animal London college, the gum pill of former dispen-

The Chinese Chrysanthemum.

The method of cultivating the Chrysanthemum in China is as follows; cuttings are struck every year from the young shoots, in the same manner as they do in England. When they are rooted, they are potted off at once into the pots into which they are to grow and bloom; that is, they are grown upon what would be called by our gardeners', the oneshift system."

This soil used in potting is of a very rich description. About Canton it is generally obtained, in the first instance, from the bottom of lakes or ponds, where the Nelumbeum or Water Lily grows. It is then laid up to dry and pulverise for some months, when it is mixed with old night-soil taken from the manure tanks found in every garden. A heap of this kind, after being laid up for some time and frequently turned over, is in a fit state for potting the Chrysanthemum. Manure water, taken also from the tank already noticed, is liberally supplied during the growing season, and the effects are visible in the luxurant dark green leaves which cover the plants.

In forming the plants into nice compact bushes, the plants are trained each with a single stem; this is forced to send out numerous laterials near its base, and these are tied down in a neat and regular manner with strings of of silk thread.

Artificial Flowers.

The art of representing by flowers, leaves, plants, &c., vegetable nature in her ornamental productions, constitutes the business of the artificial florist. The Italians appear to have been the first people in Europe who excelled in the art of making artificial flowers; but of late years the French have been most ingenious in this branch of industry. Ribands folded in different colors were originally employed for initating flowers, by being attached to wire by feathers, which are more delicate in texty of flower-like figures. But a great difficulty was encountered in dyeing them with due vivacity. The savages of South America manufacture perfect feather flowers, derived from the brilliant plumage of their birds, which closely resemble the products of vegetation. The blossoms and leaves are admirable, while the colors never fade. The Italians employ frequently the cocoons of the silkworm for this purpose; these take a brilliant dye, preserve their color, and possess a transparent velvety appearance, suitable for petals. Of late years, the French have adopted the finest cambric for making petals, and the taffeta of Florence for the leaves.

Phenomena of the Brain.

One of the most inconceivable things in the nature of the brain is, that the organ of sensation should itself beinsensible. To cut the brain gives no pain, yet in the brain alone resides the power of feeling pain in any other part of the body. If the nerve which leads from it to the injured part be divided, it becomes instantly unconscious of suffering. It is only by communication with the brain that any kind of sensation is produced, yet the organ itself is insensible. But there is a circum. stance more wonderful still. The brain itself may be removed, may be cut away down to the corpus calasum, without destroying life.-The animal lives and performs all its functions which are necessary to simple vitality, but no longer has a mind; it cannot think or feed; it requires that the food should be pushed into its stomach; once there, it is digested, and the animal will even thrive and grow fat. We infer, therefore, that the part of the brain, the convolutions, is simply intended for the exercise of the intellectual faculties, whether of the low degree called instinct, or exalted kind bestowed on man, the gift of reason .--- [Wagan on the Quality of the Mind.

The city of Cilca, N. Y., does not owe a 린

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