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Recipes for the Kitchen. Hygiene and Other Notes for the Housekeeper.

CUSTARDS.

The direction for baking all cup Do not let it boil. custards is the same way. the mixture into cups, set them into a pan of hot water and bake in until it is quite soft, then rub a rather moderate oven about twen- through a fine sieve with the back ty minutes, or until the custard is of a wooden spoon. Sweeten to Bet in the centre. Custards are taste, heat it and pour over the best served cold. Sponge cake or angel's food is a delicious accompaniment to custard. Each of the following recipes will make enough half a cup of butter until light and to fill four custard cups. The chief white; then stir in gradually the care in making custards is to mix same weight of pulverized sugar. the ingredients thoroughly.

Maple Custard.—Beat three eggs and grate nutmeg over it. until a full spoonful can be taken rice or cabinet puddings. up. Add a pinch of salt, one-third cupful of maple syrup, and when cups rich milk, half cream is best; these are well mixed, add two cup- four tablespoonfuls of sugar, whites directed.

tablespoonfuls of nut butter smooth you prefer. Heat the milk to the two eggs light, with eight level the cornstarch, and when it thicktablespoonfuls of sugar and add to ens beat in the whites of the eggs. the butter with a pinch of salt. Mix Take from the fire and set in a dish ter and cook in a double boiler till |cook more. creamy. Then bake as directed. To make this of different flavors, use different kinds of nut butter.

Caramel Custard.-Let one-half cupful of brown sugar n.elt and brown in a saucepan over a moderate fire, stirring constantly to prevent burning. When well browned pour over it one-quarter (coffee) cupful of boiling water, and let it simmer slowly. Beat two eggs, add a pinch of salt and one pint of milk. When the caramel is melted add to it the milk and stir well. space between each for the circula-Bake as directed.

Chocolate Custard.—Heat to the boiling point in a double boiler, one cupful of milk and one cupful of water, or preferable, two cupfuls of milk. Put in a granite sauce pan or cup over a moderate fire one-half square of Baker's chocolate, shaved up, four tablespoonfuls of granulated sugar and onehalf tablespoonful of water. Stir this constantly until it is smooth and glossy. Add the hot milk, slowly, beating thoroughly. When this is tepid add it to two eggs beaten thoroughly. Add a pinch of salt and one-half teaspoonful of vanilla. Beat all together thoroughly and bake as directed.

of milk and one cupful of water, or preferable, two cupfuls of milk, to the boiling point in a double boiler. Mix together thoroughly four even teaspoonfuls of Baker's cocoa and Borneo has a pet that few people strong manila rope) to a galloping ous labor in subterranean galleries, sugar. To this add the hot milk is near a jungle, and out of this slowly. When this is tepid add it there strayed one morning a baby equivalent to that which an engine for many years; nevertheless, the slowly to two eggs beaten light. rhinoceros. Captured as a curiosity might have given, and it rose and girls at work in the mines make Add a pinch of salt and one-half he soon became tame, and now re- soared beautifully. It was an appli- light of their sympathizers and seem teaspoonful of vanilla. Beat thor- fuses to return to the wilds. Sixteen cation of the same principle as that more than satisfied with their misoughly and bake as directed.

directed.

Pumpkin Custard.—This is merely like her dog. the custard part of pumpkin pie for which it is an excellent substitute. Mix well one-half cupful of sugar, one even teaspoonful of gin- Now being Used in a Number of ger and two even teaspoonfuls of cinnamon. With these, beat up one egg till light. Add two-thirds cupful strained pumpkin, then 11 cupfuls milk. Beat till thoroughly mentally and practically, for many mixed and bake as directed.

SIMPLIFIED LIVING.

A simpler style of living would relieve the burdens of many housekeepers. A great deal of time is ering of clothing and household linen draperies. A ruffled garment requires at least double the time to iron that would be required ber of large steel works. for a plain garment. Make underclothing, children's clothing, window draperies, etc., plain and use ing usually rectangular for this work flat trimmings. But you say ruffles are so dainty. So they are, but with all the extra work they involve

are they worth while? In some houses rooms are filled with things that have no reason for being there. The moving and dusting of these ornaments (?) mean the expenditure of a great deal of time be lifted by magnets while still so and strength in the course of a month. Do they add enough to the pleasure and culture of the family to make it worth while?

We think some good photographs or other pictures on the walls; a 30. Thus, a magnet weighing 300 few good plaster casts; bookshelves filled with books; and comfortable, plain furniture would be infinitely more artistic and educational, while rheostats, and one of the capacity the care of such a room would not be burdensome. Plain finishes in the furniture and wood work of our homes would mean less labor in smooth form would mean a saving of time. Fewer dishes at a meal, but each dish simply and perfectly cooked, would reduce the work of

the kitchen one-half. fed living do not mean careless | How perfectly exquisitely lovely it | veloped tailless kites very much su- so rapid is the movement of the ments as sick headache, cold. Num

any one thing that is essential to the happiness or the growth of the family. On the contrary, they should lead to a more honest and a DR. larger life for all.

DOMESTIC RECEIPTS.

Vanilla Sauce for Puddings.-Beat one egg and stir half a pint of milk into it. Add sugar to taste and five or six drops of vanilla. Put into a saucepan over the fire and stir one way till it begins to thicken.

Pour Fruit Sauce for Puddings .- Boil any kind of fruit with a little water pudding. Nice for boiled or steamed puddings.

Hard Sauce for Puddings.-Cream

Cream Sauce for Puddings .- Two with one cupful of water. Beat scalding point, add the sugar, then

PROPER WAY TO AIR BEDS.

The directions for airing beds given in a domestic training school are worth noting. Place two chairs with seats together near an open window. Fold the counterpane neatly the long way, and lay over the tops of the chairs, allowing the middle to sag down to the seats. Fold the blankets next and place over the counterpane, allowing a tion of air. Proceed in the same way with the rest of the bed clothing. Beat up the pillows and place them where they will get the air.

NEW WAY TO DO TIME.

Dr. Lillinksjold, of Butte, Montana, is credited with having adapted hypnotism to a novel purpose. The doctor, having been placed under arrest, tried, fined, and sentenced to jail for twenty days for some small infraction of the law, deliberately hypnotized himself, say- kite, provided with an actual ening he would awaken from his trance gine and man in place of the load, at the expiration of twenty days, and driven by its own propellers, All efforts to awaken him were un- should be sustained in calm air as successful till the end of that period. As a means of "doing" time, pressure of the air is concerned, it or of whiling away long intervals, Cocoa Custard.—Heat one cupful Dr. Lillinksfold's plan is probably moves against the kite or the kite battling for their daily bread. unique.

A UNIQUE PET.

The wife of the Governor of North four tablespoonfuls of granulated will envy her. The Governor's house horse. The horse furnished to the just as the Belgian servant girls and Coffee Custard.—Beat till light pet requires, and on it he thrives when the breeze is too light to raise two eggs, a pinch of salt and two and grows fat. He does not look his kite, runs with it along the ition of a servant girl. Complaints tablespoonfuls of sugar. Add slow- much like the full-grown rhinoceros, ground. ly two-thirds of a cupful of milk and might be mistaken for a On one occasion an attempt, which ter what grave danger the day's and 11 cupfuls of clear, cold coffee. curious sort of hog, were it not for came near to having a disastrous share of work may involve or to Beat up thoroughly and bake as his single horn. He is devoted ending, was made to fly the machine what wretched condition of servi-

MAGNETS AS WEIGHT-LIFTERS

Steel Works.

ing devices has been known, experiyears. Some of the oldest treatises on electricity and magnetism give the lifting power of magnets as that weight which the armature of the magnet will sustain without falling a tack by means of magnetism to wasted on the trimming and laund- the lifting of massive iron and steel plates weighing four, six, and twelve tons by this same force, which is now done every workday in a num-

Electro-magnetism, of course, is utilized, the form of the magnet beand presenting a flat surface to the plates lifted. The magnets are suspended by chains from cranes, and pick up the plates by simple contact and without the loss of time consequent to the adjustment of chain and hooks in the older method. It is also found that the metal plates can hot that it would be impossible for the men to handle them. The ratio of weight of these magnets to the weight lifted varies with the machine; in some cases this ratio is pounds will lift 4.5 tons. The mag- in Nova Scotia, and the kites emnet is operated by current from a dynamo, controlled by switches and mentioned requires about four amperes at 250 volts, or 1.34 horsepower. These magnets also have the advantage for this class of work care. In cooking utensils, that a number of them can be apthan one machine could lift singly.

Old Greybeard-"It's a pity to keep such a pretty bird in a cage." lousekeeping nor the elimination of would look in a hat!"

FLYING MACHINE

ALEXANDER' GRAHAM BELL INVENTS A KITE.

Formed of a Multiplicity of Silken Wings, Making an Artificial Bird.

Dr. Alexander Graham Bell, inventor of the telephone, has built a chine." flying machine that will really fly. It is a structure composed of what might be teriled a multiplicity of of Hargrave kite, which has alboat. But perhaps the strangest erican boys, consists of two rectthing about it is that the boat will angular boxes of muslin, with a fly by itself, so great is its buoy- wide space between, held rigid by principle, but in accordance with an by rendered unnecessary, and the angular sides. Put four triangles notion of Dr. Bell's arrangement.

open to the air; the other sides are terial." that, as already stated.

IT WILL FLOAT BY ITSELF.

"that a properly-constructed flying to convert it to practical use as machine should be capable of being flying machine. flown as a kite; and, conversely, that a properly-constructed kite should be capable of use as a flying machine, when driven by its own propellers. Given a kite so shaped as to be suitable for the body of a flying machine, and so efficient that it will fly well in a good breeze when loaded with a weight equivalent to that of a man and enginethen, it seems to me that this same a flying machine. So far as the is surely immaterial whether the air against the air."

to his mistress and follows her about in a good sailing breeze, when a squall came up and struck it, lifting into the air the two men who held it. Of course, they let go instantly, and the gigantic "bird of silk and sticks, carrying the boat beneath it as an eagle bears its prey in its talons, rose steadily in The availability of magnets as lift- the air until the rope snapped under the strain.

TREMENDOUS OSCILLATIONS.

of a pitching character ensued, but the kite was at such an elevation when, the accident happened that the oscillations had time to die off; but it is a far cry from lifting down before it reached the ground, when it landed safely upon an even keel in an adjoining field."

Dr. Bell states that the applicability of kite experiments to the flying-machine problem has been for a long time past the guiding thought in his researches. He says:

"I have not cared to ascertain how high a kite might be flown. The point I have had specially in mind is that the equilibrium of the structure in the air should be perfect; that the kite should fly steadily, and not move from side to side or dive suddenly when struck by a squall; and that, when released, it should drop slowly and gently to the ground. I believe that in the form cents. of structure now attained the properties of strength, lightness and steady flight have been united in a remarkable degree."

Dr. Bell's experiments were made during recent summers on his estate ployed assumed hundreds of different forms, though all of the recent ones have been composed of the "tetrahedral" skeleton described. Such a cursion, which are heated by elecbox being recognized as the structural unit, as many as might be tos covered copper wire in their lindesired could be put together in all ings. sorts of shapes. Up to date, how-

ing a boat. "In Asia," says Dr. Bell, "kiteflying has been for centuries an amusement of adults, and the Chinperior to any form of kite shown to electrons.

us until quite recently. It is only THE WORLD'S BIGGEST provements in kite structure have been seriously considered, and recent developments of the art have been largely due to the efforts of one stralia. Hargrave realized that the structure best adapted for a kite would also be suitable as a basis for the construction of a flying ma-

THE SIMPLEST FORM

silken wings, upholding a sort of ready become familiar to most Amancy, when the supporting part of sticks. Dr. Bell's first discovery was the apparatus has been taken away. that a marked improvement could The machine is, in effect, an arti- be effected by making the boxes trificial bird, constructed on the kite angular. Inside bracing was thereentirely new idea. It is a multiple kite was stronger and lighter, while kite, composed of a great number offering less head resistance to the of triangular boxes of silk, held in wind. The next step was to change Make up in the form of a pyramid shape by sticks. If it were not so the triangular "cell" into a tetrahard a word, it would be better to hedron-a box formed of four tricall the boxes "tetrahedrons," inas- angles. A pyramid with a triangle much as each of them has four tri- for its base will represent the shape.

The skeleton tetrahedron made of together to make a box, and you sticks is braced in three directions fuls of milk. Strain and bake as of two eggs beaten stiff, one even will see the idea. Then fasten a lot like a solid and is therefore very tablespoonful of cornstarch wet up of such skeleton boxes together, cor- strong. "It is astonishing," says Nut Custard.—Rub four level with cold water, and any flavoring ner to corner, and you will get a Dr. Bell, "how substantial such a though roughly hewn, is sympatheframework appears, even when com-One side of each skeleton box is posed of very light and fragile ma-

of silk, and in shape and position | Hence it is that the new contrivsuggest the triangular wings of a ance devised by the inventor of the inches, equal to 8 feet 97 inches. -well with another cup of warm wa- of boiling water to keep hot, not to bird in the act of flying. Thus the telephone surpasses all previous efwhole machine, being made up of forts of human ingenuity in this line fers to people with very large feet such boxes, is like a bird-or, more by reason of its extraordinary lightaccurately speaking, like a flock of ness in proportion to its size and if you can, an 18-inch long boot for birds whose flight is directed by a strength. It is the nearest apsingle impulse. The so-called "sup- proach thus far made to aerial locoporting part" of the apparatus is a motion on the soaring principle (the At the same time he has No. 18. great "aerplane" composed of these advocates of which discard balloons boxes, and the boat suspended be- as hopeless for practical purposes), neath is of similar construction, so and the public will await with interest the result of Dr. Bell's first attempt to run his apparatus with an engine and man on board. He sive. "I have had the feeling," says Dr. has at last secured, as he believes, Bell, in describing his invention, a perfect kite, and the next step is

GIRL TOIL IN MINES.

Belgium Unable to Find Remedy for Its Slavery.

Notwithstanding all the criticisms and ameliorative suggestions that prevail on social reform among the laboring classes, and the dreams of the modern sociologists of both hemispheres, the problem of how Belgium can supply decent employment to its southern girls remains still to be solved. The kingdom is only one-fourth the size of Pennsylvania, and yet within its boundaries more than 6,000,000 persons are

Undoubtedly the American girls To illustrate this point, Dr. Bell pity their Belgian sisters and conflew his flying machine in a dead demn the act of employing the weakcalm by attaching the cord (a er sex upon dangerous and strenuapparatus a power of propulsion farmers' daughters have pitied them quarts of milk a day is what this employed by the small boy, who, erable lot. None of them would voluntarily exchange it for the posseldom arise from their lips, no mattude they may be doomed.

The mines wherein so many young girls are spending the best days of their youth are indisputably the deepest in the whole world, some reaching a depth of 4,200 feet, and their interior is insufficiently ventilated; the air is impure, the heat intense and highly explosive from the numberless crevices, capable of transforming humdreds of toiling bodies into lifeless masses in an unexpected moment. Numerous instances of such disasters are on record.

The clothes worn by the unfortunate girls during working time are made of blue linen of the lightest weight, and consist of large pantaloons, the end of these bifurcate garments being tied around the legs just above the shoes; also a jacket wherein the body can freely exercise its muscular strength. The hair is skilfully enveloped in a handkerchief, thus protecting the head from coal dust as well as if it had never approached a coal mine. The whole outfit costs about 70 cents, and is changed twice a week. In full dress the girl of the Belgian mine resembles a bicyclist of her sex arrayed in bloomers.

LEARNED BY SCIENCE.

Research in the chemical laboratory of the University of Pennsylvania shows clearly that whisky and other alcoholics increase the bacteria destroying power of the blood.

The Duke of Abruzzi has prepared suits, for use in the next polar extricity through a network of asbes-

Suppose one should hold a crystal good material made in a simple, plied jointly to lift a heavier weight ever, the form that has proved most of radium in his hand with his face satisfactory is the aeroplane uphold- turned to the east. Suppose that Now these suggestions for simpli- Mrs. De Style-"Isn't it a shame? ese, Japanese and Malays have de- before he could fall to the ground, also the prescription for such ail-

HE IS A RUSSIAN AND IS 105 INCHES HIGH.

man-Mr. Laurence Hargrave of Au- Fedor Machnoff Is a Mere Boy-In Two Years Mochty Grew Two Feet.

> I have just shaken hands with the biggest man in the world. I wear No. 5, and the gloves built for him are 13 inches long, measured from the wrist to the point of the middle finger. His name is Fedor Machnoff, and the Kaiser's giant bodyguards that he took to Rome with him for show look like 30 cents in comparison, writes a Paris correspondent.

We met on the Moscow-Berlin-Paris express, and Fedor, who is a mere boy, asked a thousand and one questions about other enormous fellows I know-"Fugleman" Balling, the Bavarian; the Belgian "Colossus" Canon-Berg; Baron von Pluskow, who won the love of an imperial blorde; Anton Mochty, who in two years gained two feet in height and 111 pounds in weight, and all the rest of the big tribe. Only when I satisfied his own curiosity would he tell about himself.

Fedor is not pretty, but his face, tic rather than otherwise. He was born of Russian parents in Wittebsk 22 years ago, and is still growing. His exact height to-day is 105%

Enormous feet. One sometimes rejocosely as number "12's." Imagine, Fedor's dress parade; when he wants to be comfortable he takes No. 20. and small wonder, for up to a mo and small number, for up to a month ago, when a traveling montebank discovered him, he never wore boots - they were too expen-

Fedor showed me photographs of his parents, taken a week ago. Most ordinary people of the Russian peasant type, the father 5 feet 6, the mother 5 feet 3 high, according to official measurements. The boy's three brothers and seven sisters are likewise of average size only.

WAKE UP TO BE A GIANT. "Are there any verified data re-

specting the boy's growth?" I asked the manager.

The village gendarme, who looks after promising recruits, dividing them into classes under the heads of horse, foot and artillery, had furnished the desired information.

According to this authority, Fedore woke up one day to find himself a giant. It was on his seventh birthday. After lying as one dead for 36 hours in deep sleep, he astonished his parents and neighbors when he arose from the stove and walked out into the open. The boy just enough for school was taller than his father by two inches.

When 10 years old Fedor was taller than the tallest man in the Czar's bodyguard; two years later he reached the two metres mark (6 feet 7), and at 14 he gave the lie to the encyclopaedias, maintaining that no man ever grew taller than 6 feet 10. Fedor then measured 6 feet 11 in his bare feet.

"Did you suffer much from growing pains?" asked your correspond-

"No," answered Fedor, "for when I felt them coming I tried to go to sleep, and usually succeeded, dozing from 24 to 30 hours at a time without food or drink. When afterward I crawled down from the stove I was always 2 or 3 inches higher than before."

Fedor occupied a special carriage in the train. The receptacle for hand baggage, usually placed over the passenger's heald, had to be removed, and iron pillars propped up the sofa assigned to him. Occupying two seats himself and monopolizing those opposite by his legs and knees, he had to buy four tickets.

Fedor defies medical and scientific investigation in more respects than stated. His head is not abnormally small, neither are his shoulders narrow, or his hips very high. Again the bones seem to be of the average toughness and he is quite muscular. The fact that his growth began so early in life is also in strict opposition to what the text-books claim, namely, that an intending giant begins to stretch after his tenth year only.

BELATED CONGRATULATION.

Returned Tourist-"And so, during For twelve hours' work a day in my long stay abroad, Miss Pinkie the mines the Belgian girl earns 50 got married-six months ago, too. I must call to offer my congratulations. What is her name now?" Hostess-"Mrs. Blinks. She lives

> next door." Enter Servant-"Please, mum, Mrs. Blinks wants to know the address of some good locksmith."

> Hostess-"With pleasure. What is the matter?"

> Servant-"When Mr. Blinks left the house this morning, he slammed the door so hard that it broke the latch."

EVERYBODY'S DOCTOR.

Automatic machines, to be called "Everybody's Doctor," are to one of the electrons were a leaden placed in the boulevards and prinbullet circling the earth to its start- cipal thoroughfares of Brussels. By ing point. He would be shot in the putting a penny in the slot one will back from the westward five times be able to obtain a remedy and bago, and touthache.