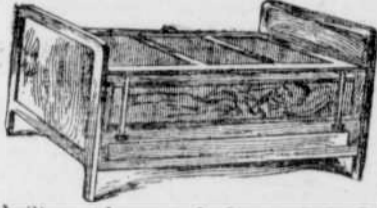


## Marvels of Everyday Science

Competent Scientists Apply Their Skill to Problems of Agriculture, Housekeeping, Schools, Business and Governmental Activities.

### BED INCLOSED BY FOLDING SCREEN PANELS.

FOLDING screen panels to protect beds and cribs from flies and mosquitoes are the interesting part of a patent recently taken out. The screen arrangement is designed especially for babies' cribs, but it can be



built on a larger scale for any bed. It consists of two screened panels fastened permanently above the sideboards of the bed and another screen panel which serves as a cover. An ingenious hinged-lever arrangement is fastened to one side of the cover so that it can be folded down on one side, out of the way.

### Valuable Secrets Awaiting Discovery.

Fortune awaits the man who can produce artificial gutta-percha in large quantities at a price sufficiently low to warrant its use instead of the genuine article, the supply of which is fast diminishing. Cork is another substance of every day use for which no satisfactory imitation has been provided, the only substitute thus far produced being paper treated with paraffin wax, but this material cannot be used for corking wine bottles. One of the most valuable processes unknown to us is the production of iron that will not rust or decay. That this secret was known to the ancients is proved by an iron monument at Delhi, India, which has stood exposed to the weather for centuries without rusting or decaying.

### Staples Are Driven Into New Concrete Posts.

Concrete fence posts into which wire staples can be driven are now being manufactured in large quantities. In shape and method of reinforcement they are very much like other cement posts, but the means provided for securing the fence wires is unusual and practical. Down the side of each post is a narrow channel filled with a composition into which nails and staples can be driven as easily as into wood. And



when the staples have been set, they cannot be drawn out. The posts are built in various sizes for different uses and are practically indestructible. The composition of the material into which the staples are driven is secret.

### A Water Merry-Go-Round Teaches Boys to Swim.

In one of the public schools of Cincinnati, having an 80-foot swimming tank, an ingenious water merry-go-round has been constructed after plans made by the swimming instructor. It consists of an oval track suspended from the ceiling above the pool. Trolleys provided with strong ropes are attached to the track, and a harness is arranged at the other end of the ropes so that the boys may slip the broad belts about their waists and thus be supported in the water, while their limbs are left free.

### Hedge Trimmer Operated by Electricity

A machine for trimming hedges has been invented which carries an electric motor. The operator passes the trimmer over the surface to be shorn after the manner of a horse clipper. The machine is built of aluminum with a



case containing the motor. The gear case is completely inclosed so that no dirt can enter the mechanism, and the trimmer is arranged to be used on either side of the hedge, cutting top and sides equally well. The power is controlled by a switch on the handle, operated by the thumb.

### Tree Planting Machine.

With a tree planting tool designed by a Utah blacksmith, the hole is dug, the little tree inserted and the earth packed around the roots in one operation, says Popular Mechanics. The implement consists of a bar with a cross-arm at the top and three blades of spring steel at the bottom, somewhat on the principle of the postdigger, and having a lever near the lower end. The lever is pressed with the foot, the tree inserted, and the tool is then thrust forcibly into the ground. A lever at the top of the handle is then twisted to open the blades and the implement is screwed around in the hole until the soil is pulverized. The planter is then withdrawn leaving the cultivated earth packed around the roots of the plant. Experiments made by the U. S. forest service have shown that one man with this tool can plant 50 small trees in 35 minutes.

## Women Hostesses

AN INTERESTING movement is on foot whereby the Farm Women of America may become hostesses to the farm women of many foreign nations, if the plans set on foot at the Tulsa, Okla., meeting in regard to having a building at the Panama-Pacific Exposition in 1915 are adopted.

The building advocated will be erected in a suitable place on the exposition grounds; it will be equipped with the latest appliances and conveniences that are used in modern farm homes. Farm women of the different states will be hostesses at various stated times and the building will in this manner be a meeting place for the farm women of the world.

It is stated by those in authority that the plan has received the sanction of the International Congress of Farm Women and that ground will be broken for the building this month.

Weekly conferences during the entire time of the exposition will be an interesting phase of the plan; discussion luncheons will be arranged, prizes offered for the most practical model farm home, etc.

Affiliation with the International Congress of Farm Women is the matter that is uppermost in the minds of all farm women today, and every independent farm woman's club in the United States and Canada should write to Mrs. Harbert, president of the congress, and learn the method of organization.

If you contemplate starting such a club, and are interested in the Farm Woman's building at the Panama-Pacific Exposition, write to Mrs. Belle van der Harbert, 340 Century Building, Denver, Colo., and literature will be sent you concerning the plan.

The city of Tacoma, Wash., has entered into a co-operative agreement with the forest service for the protection of the source of its water supply, the watershed of the Green River, which lies within the Rainier national forest. The two agencies working together will protect this stream from the results of forest destruction by fire or by other agencies.

## Health and Sanitation

BY A PHYSICIAN.

INDIGESTION and practically all forms of stomach trouble are, nine times out of ten, due to acidity; therefore stomach sufferers should, whenever possible, avoid eating food that is acid in its nature, or which by chemical action in the stomach develops acidity. Unfortunately, such a rule eliminates most foods which are pleasant to the taste as well as those which are rich in blood, flesh and nerve building properties. This is the reason why dyspeptics and stomach sufferers are usually so thin, emaciated and lacking in that vital energy which can only come from a well fed body. For the benefit of those sufferers who have been obliged to exclude from their diet all starchy, sweet or fatty food, and are trying to keep up a miserable existence on gluten products, I would suggest that you should try a meal of any food or foods which you may like, in moderate amount, taking immediately afterwards a teaspoonful of bisurated magnesia in a little hot or cold water. This will neutralize any acid which may be present, or which may be formed, and instead of the usual feeling of uneasiness and fullness, you will find that your food agrees with you perfectly. Bisurated magnesia is doubtless the best food corrective and antacid known. It has no direct action on the stomach; but by neutralizing the acidity of the food contents, and thus removing the source of the acid irritation which inflames the delicate stomach lining, it does more than could possibly be done by any drug or medicine. As a physician, I believe in the use of medicine whenever necessary, but I must admit that I cannot see the sense of dosing an inflamed and irritated stomach with drugs instead of getting rid of the acid—the cause of all the trouble. Get a little bisurated magnesia from your druggist, eat what you want at your next meal, take some of the bisurated magnesia as directed above, and see if I'm not right."

### Hints on Health

MANY poisons and impurities come disguised, especially ptomaine poisoning, from tainted meat and fish.

Poor health is a fetter which holds a person to the trouble nearest at hand.

The individual in good health is the controller of his own fate.

Sound bodies mean clean bodies.

Sound minds mean sound bodies.

Therefore, a body must be clean with and without.

DO NOT SPIT.

SPITTING on floors, sidewalks, street cars and other public conveyances not only is prohibited by law, under penalty of fine or imprisonment,

but also under penalty of disease.

Tuberculosis germs left in public places are sure to be carried on shoes and trailing skirts into private homes and buildings; they may be blown about in the air, in dust, may be carried by flies, and in many other ways spread where they cause sickness and death.

Not many people who have tubercle bacilli (tuberculosis germs) in their mouths know it. You never can be sure that your own mouth is free from these germs, hence do not endanger your fellow man by the vicious and filthy habit of pernicious expectoration.

### MILK HINTS.

THE best milk will spoil unless it is kept cold. If you do not keep ice, invert a crock or a flower pot over the bottle of milk on the basement floor.

Modified cow's milk is the only safe food for infant feeding in cases where the mother is physically unable to nurse the child. Beware of condensed milk and patent foods if you would have a normally developed child.

Modified milk is milk that has been modified to fit the needs of an individual baby. The formula usually contains specific amounts of cream, milk, milk sugar, lime water, etc. It takes an expert physician to write this formula and see that it fits the needs of the baby.

Milk is the cheapest food in the market.

The most valuable food product in milk is casein. And still the housewife estimates the value of her milk by the "cream line."



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