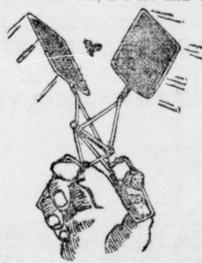
Inventions and Appliances

FARMING FOR PEARLS IS PROFIT- | in fact, all the colors can be used, mak-

RECENT decision of the U. S. ing pearl mussels by artificial 3½ feet long. The width will vary with means in the valley of the Cumberland the length of the globe to be covered, River, opens up to the public a new and and it is best to have it full, as the edge very profitable industry. Investigations conducted over a long period by the of the globe afterward. Another piece scientific staff of the bureau has demonstrated that fresh-water pearls are produced by many varieties of mussels through the action of certain small parasitic worms, which bore through the shell and set up an irritation on the flesh of the mussel. In self-defense the mussel sccretes an excess of pearl-forming material and encysts the parasite, a pearl resulting. Thousands of these fresh water pearls have been carefully cut open by government investigators and within each one was found, when examined under a powerful microscope the nucleus containing-one of these little worms. Mussels breed rapidly, the eggs being east in small packets, which after a few days break, and thousands of tiny larvae swim about, attaching themselves to the gills of fish, from which after 70 days they cast loose and sink to the bottom of the river, beginning there their life as shellfish. It is only necessary to obtain from the government a consignment of mussel eggs, distribute them in a stream well stocked with fish, and a natural mussel farm results. Then a number of mussels infected with the pearl-forming parasite must be obtained, planted in the bed of the stream, and the farm begins to be productive.

NEW FLY SWATTER.

T HAS been said there is no swatter that a clever fly cannot escape, but the one shown here, the invention of a Kansas man, is a new kind. It



works so fast that the fly, with all its eyes, cannot see the finish coming in time to dodge. All that is necessary is to wait until the fly comes along-then cleaner on the coal-begrimed hide of slap and he is a dead one.

FOR BUTTERING CORN.

O MAKE easier the pleasure of eat-York man has invented a buttering a crowd, which watched the demonspoon. It consists of a bowl with a long stration and probably earried the news handle, the bowl shaped to fit the curves to more quarters than any other form of the average cob of corn and having of advertising might have done.



s perforated lid. The butter is placed in the bowl, which is run slowly along the surface of the hot corn and the butter melting, oozes through the perforations and is spread evenly over the corn.

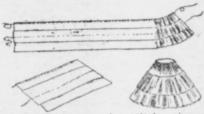
PAPER SHADES FOR ELECTRIC-LIGHT GLOBES.

low effect. Pale blue, yellow, red and, do wamen.

ng a very pleasing variety.

The body of the shade is made of a Bureau of Fisheries to start breed- piece of paper about 51 inches wide and can be trimmed even with the lower end of the same color is cut 21 inches wide and of the same length. This piece makes the ruffle.

The smaller piece is placed on the



ogether with a running stitch, using a needle and cotton thread. A plain running stitch is also made 1 of an inch from one edge of the larger strip. The material is gathered along both threads. This operation makes the material shrink n length. Wrap it around the globe, pulling the threads taut so that the ends of the paper will just meet. Tie the threads and clip off the extending As might have been expected, he grew ends. If the paper extends beyond the end of the globe, tri mit off with the shears. Ruffle the two edges of the narrow strip and the lower edge of the larger one. This operation is simply stretching the edge of the crepe to cause it to stand out.

likely to come into general use among speed increased during the fast, while the armies of the world. It is expected his accuracy remained as high as it had that it will to a great extent supplant been at the beginning. When he was attacking trenches and covered positions and rendering them untenable without recourse to hand-to-hand combat. The grenades can be fired singly or in volleys and the effect of volley firing with due to the daily practice he got, but such weapons would probably be as it is wonderful that the mind should such weapons would probably be astounding. In hilly country especially, work during so long a period, as well where the bringing into action of field without food as with it. pieces is extremely difficult, the use of the grenade will prove of incalculable benefit to the troops equipped with it.

DEMONSTRATE VACUUM CLEAN ER ON MULE'S HIDE.

HE electric service company at Scranton, Pa., recently attracted and held a large crowd of people in front of its offices by demonstrating the effectiveness of a vacuum a mine mule. The animal, having probably never experienced a similar sensation before, expressed its surprise when the vacuum cleaner was put in ing "roasting ears," the great operation by delivering a far-sounding American summer delicacy, a New "hee-haw." The noise soon attracted

WIRE FENCE.

AND adjacent to a suburban car line near Reno, Nev., was fenced quickly by utilizing one of the electric cars to stretch the wires, recently. The poles were placed in position, and the fencing, in sections, was then fastened to the posts, the car stretching it as needed, and the fence was completed as fast as the staples could be driven into the posts. The job was done in record time, as the car carried the material and men employed.

CLOTHES CONSIDERED.

ODERN clothes are expensive, un-hygienic, and sometimes suggestive. What an advance it would be if we could get back to the unchanging, artistic costume of the Greeks, 2000 years ago, or to that of some of the Oriental races of today, instead of con-THE appearance of an electric-light stantly adopting changing styles, one globe can be very prettily improved more inartistic than the other. Men's by making a shade of erepe paper clothing does not run to extremes in of any desired color for each one. Can- our age, but men burden themselves ary-colored crepe produces a soft, mel- with unnecessary clothing more than

Health and Sanitation

nerves are really highly resistant.

It was found that the slightest muscular exertion had a decided effect on the larger centrally, and both are stitched relation between what the body took in and what it threw off, but that the addition of mental to muscular work made no difference at all. If a student took a written examination in the cage, He cites numerous cases in his own he used the same energy that he would practice in which the pain has been rehave used in going through the move- lieved quickly, sometimes by the first

whatever.

Recently a similar evidence has been obtained at the Carnegie Nutrition Laboratory of Boston. A man of 40 underwent a fast of thirty-one days, during which he took absolutely nothing it and the day that followed it, the man submitted to certain tests of muscular strength and of mental power. physically weaker. Who would not have expected him to show a falling off in mental ability as well? Yet this man could repeat ten disconnected words, immediately after they had been pronounced to him, more correctly at the end of the fasting period than at its beginning, and he could also recall the HE rifle grenade has been adopted in some countries as an integral part was tested by some countries as an integral part was tested by requiring him to cross out practice may readily carry you off. of the soldier's equipment, and is all the A's in a printed passage, and his the use of the bayonet and do away given a word and required to speak the with the necessity for close-quarter first word it suggested to him, the fighting, as it will provide a means for promptness of his response increased as the fast became more prolonged. In short, he performed all the mental tests either as well or better as the fast proeeded. The improvement was probably

IMMUNITY FROM DISEASE.

PERFECT HEALTH is the best pos sible immunity from disease. Millions of germs are breathed in with every breath we take, but their injurious effect is nullified so long as the health is good. Many of the germs so taken are necessary for health, others would be disease breeders if they fell upon the proper soil. The habit of deep breathing that the blood may be purified with the oxygen thus obtained, at the same time keeping the bowels open with such articles of diet as contribute to the manufacture of good red blood, will go a long way towards making a person immune from ordinary diseases When an epidemic is around the persons first affected are those with debilitated blood, otherwise everybody would for the production of good healthy blood secures results that are not attained elsethat there is little excuse for STREET CAR USED TO STRETCH son having anything else, and with such

MENTAL WORK DURING A FAST. |a healthy condition there is the slightis a curious fact that the nervous est probability of acquiring any of the system is in certain ways independ- diseases that are so frequent in some ent of the rest of the body; and communities. The responsibility is that instead being very fragile, our largely an individual one, and if everybody exercised an intelligent super-At Wesleyan University the experi- vision of his habits and his surroundnent was made of putting men into ings there would be practically no reacages and measuring the food, air and son for the existence of boards of water that they used, and the waste health or any other such restrictive products that their bodies threw off. measures.

POTATO juice as a remedy for tism and bruises is recommended by Dr. Heaton C. Howard of London. ments of writing and doing no thinking application, and the fluid that has exuded into the joint or the membranes has been absorbed within a few days.

Potato juice is used as an ointment, a liniment or a plaster. The raw potatoes are squeezed in a hydraulic press; the starch and nitrogenous matter are rebut water. At 5 o'clock in the after- moved and the juice is boiled down unnoon of every day during the fast, as til it is made five times as strong as well as on the two days that preceded when fresh; glycerine is added to preserve it.

NATURE'S SIGNALS.

ATURE tells when the stomach is ready to digest food. Her signal is hunger-real hunger, not mere appetite. Never eat when you are not really hungry. Miss a meal, or several meals. Instead of eating, sip slowly a glass of cool water. In this way you will get real strength and health, whereas, otherwise you will become a chronic invalid, or be seized with some acute disease that under medical mal-

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