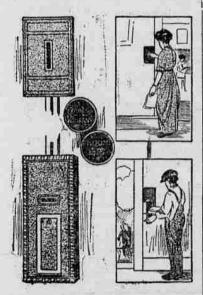
Marvels of Everyday Science

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

THE HAMLET OF CLAYTON, population 220, is perhaps the smallest community in Wisconsin, having an independent central station plant fitted with a removable wire rack to generating its own electricity. The electrie company has an operating force of one man, and its generating equipment consists of a 12-hp, gas engine belted to a 5-kw. direct-current dynamo. The street lighting load consists of eight incandescent lamps, and commercial lighting is given from dusk until 11 p. m. The Railroad Commission of Wisconsin reports 140 villages in Wisconsin with less than 1,000 population, having electric service utilities. Of these fortyone are of less than 500 population. total number of electric service utilities in the state is 293. There are seventeen gas or oil engine plants and eighty-two plants operated either wholly or in part by water power. No less than seventy-eight cities and villages are supplied from municipal plants.

New System Calls Express Wagon Promptly.

Each tenant in a new office building in New York is provided with a num ber of small metal disks or checks, each



Units Used in Novel Call System for Expressmen.

bearing on the one side his room number, and on the reverse, the name of an express company. When he desires to have an expressman call at his office for a package, he deposits a check in a special chute in the elevator wall, and the check drops down to the first floor, where an authorized employe of the building opens the box, records the room number and notifies the proper express man he is to call at that room. The expressman takes with him the check as evidence of his authority to receive the package.

How Far a Man Can See Distinctly.

Some interesting experiments have been made in the German army with the object of discovering at what distance the recognition of one soldier by another is reliable. For soldiers iwth good eyes it was found that a person seen once before could be recognied at of the top way be in this or any other a distance of 80 feet, while an acquaintmanner to suit the maker. The length
ance could be recognized at a distance
of the desk should be the same as the of 300 feet, and an intimate triend or width of the bed. Two vertical stand-relative, at a distance of 500 feet. The various parts of a man's body can be telescoping in the other, are used as distinguished and any decided move the supports. Clamps are attached to ment can be detected by an expert rifle the upper ends of the larger, or out ment can be detected by an expert rille-man at a distance of 300 feet. At 1,800 feet a man appears as a spot on the landscape and cannot usually on seen if he keeps still or if his dress does not contrast with the background. Sailors, hunters and farmers can usually the height set. A brace, also made of two telescoping tubes, is used at each end to adjust the rear part of the desk to a comfortable height for the iser. Thumb nuts are used to clamp the desk see twice these distances, probably on to the bed. account of their constant training in making out the nature of distant objects.

Fastener Holds Tongue of Shoe.

An invention by a Canadian is designed to prevent the tongue of a shoe from slipping down out of place. The contrivance consists of a ball and socket fastener, the ball portion being on the tongue and fitting into the socket, which in a man's shoe in part of the hook itself, while is a woman's shee, however, remained intact. Many of the where the eyelet is employed, a separate wooden poles, however, were entirely socket is inserted.

Pan and Rack for Drying Dishes. A new device for drying dishes consists simply of a pan, 20 inches square, hold the dishes on edge while draining, and to keep out of the dripping rinse water. After the dishes are washed they are set on edge in the rack, scalding water is poured over them and they



eliminate the use of the towel for drycleaned and sterilized,

Electric Service.

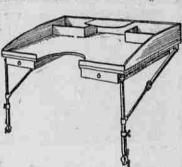
time averages only from 1 to 2 per cent of the cost of living and is one of the smallest items on the list of regular experses. If it is really advisable for a state to go into business in order to reduce the cost of living there are other lines in which even a small saving, if accomplished, would amount to more han the entire cost of lighting. For instance, food amounts to 35 to 45 per and that without any great expense to the state.

World's Largest Filter Plant.

The world's largest mechanical filtration plant is under construction at St. Louis to purify the city's water supply from the Mississippi River. The design provides for forty filter units each one of which will be capable of filtering 4,000,000 gallons daily. Each filter box measures 59x28 feet in plan and contains a 30-inch depth of fine sand and a 12-inch depth of gravel. Before entering the filters the water will pass through sedimentation basics where a congulating chemical will be added.

Bed Desk for an Invalid.

An adjustable desk or table for an invalid or convalescent can be made as skewn in the sketch. The arrangement



Concret. Telegraph Poles.

Reinforced concrete telegraph poles along the Pennsylvania Railroad in the vicinity of the New Jersey entrance to the Hudson tunnels proved during the blizzard of March 2 their superiority over the ordinary kind of wooden poles. So severe a load did the ice-coated wires impose upon the concrete poles that the wooden crossarms on some of them were broken; the concrete poles themselves, demolished.

Health and Sanitation

BY A PHYSICIAN.

deavor to obtain-or should have ob- sible and takes no harm from the rain, tained for them as far as possible by employers—by way of compensation, a ward. I find it a far better plan than regular supply of fresh air without providing umbrellas, which are always draughts, an atmosphere as free from getting damaged. dum and other impurities as can be obtained, with a good supply of light and some artificial warmth when need-

These necessities granted, cereal foods, such as well made bread in va- simple rule of health, yet it is constantriety and vegetable produce, including ly broken. fruits, should form a fair portion of the diet consumed, with the addition of eggs ing. By this method the dishes are both and milk if no meat is taken, except in the Yorm of soup, and little other animal food than fish, fowl and game. On such a dietary, and without also-The cost of lighting at the present holic stimulants, thousands of such workers may enjoy, with very little ezercise, far better health and more strength than at present they experi-ence on meat and heavy puddings, beer, learns to use its feet and hands. But baker's bread and cheese.

CREOSOTE is an excellent means of absolved from his task except when he combating chronic constipation is in the class. without exercising any purgative action properly so called. The cree not time or opportunity to attend a sote should not be prescribed in pills, cent reduction in this item would be capsules, or alcoholic solutions, but pure time into a continuous discipline in the same as the furnishing of light for and in drops. The effective dose is breathing. If the poor breather takes nothing. Besides this, the price of food about seven or eight drops taken twice the trouble to watch himself carefully is steadily going up while the price daily, immediately after brenkfast and he will find that when he is engaged of electric light is steadily going down, after dinner, in a glass of milk, beer, upon any work that calls for close at-

the necessary dose is determined for some months, in fact—and not only you take a breath, and every little while overcomes the chronic constipation, but stop everything else and fill your lungs at the same time restores the appetite a few times with breaths that test their and braces up the system.

HOUGH amoking eigerettes is really harmful for boys, they smoke not because they are turically bad, but in or garbage hoxes. Keek garbage recep-imitation of their elders. It is the tacles and open vaults tightly covered, parants' duty to prove to the boy that dark and clean daily. swoking may prevent his becoming an athlete and that it will affect his chest expansion and muscular development. See to it that he distinguishes the real from the cheap sport and desires to least once a week, and where it cannot, imitate the right kind of older fellow. should be boxed in air tight receptacles.

MY CHH DREN never carry umeach one is provided with a rainproof hood, which when not needed is buttoned into an inside pocket of the over-

PHOSE who have little time for ex- collar of the coat. When the collar is ercise and are compelled to live turned up and the hood drawn over the chiefly within doors must en head the little one is as cozy as pos-

O PIECE of advice the physician can give will bear more frequent repetition than the pithy sentence, 'Breathe deeply,' It is a perfectly

SPRINKLE chloride of lime, crude oil or kerosene over contents of vaults past when occasion induced the primal There are two ways to learn to breathe. If our powers of self discipline are poor, as is the case with most insufficient breathers, it is a good plan to join a gymnasium or calisthenic class remember that lessons in breathing will do no good if the scholar thinks he is

A simple method for those who have gymnasium is to turn life's daily ronwine and water, or purs water.

To begin with, one drop of crassele deeply as usual; he almost invariably tention he does not even breathe as is administered, and that amount in- holds his breath. Thus the blood curcreased by one drop daily until the de-rent is vitiated when it ought to be sired effect is obtained. In this way cleansed, and the worker exhausts himself, not so much by his labors as by

Draw in deep drafts of air every time capacity. You will be surprised to se the improvement that it will make in your general condition.

tacles and open vaults tightly covered,

Sprinkle chloride of lime or Equor cresolis compositus over manure piles and other refuse. Keep manure screened if possible. It should be removed at

Pour kerosene into the drains, Clean cuspidors every day. Keep a 5 brellas, writes a friend. Instead per cent solution of carbolic acid in them. Don't allow dirt to accumulate in corners, belind doors, back of radia-tors, under stoves, etc. Allow no decaying matter of any sort to accumulate



Bazin.

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