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 elecone man, and its generating equipment water. After the dishes are washed consists of a 12 hp. gas engine belted to they are set on edge in the rack, scalda 5-kw. direct-current dynamo. The ing water is poured over them and they street lighting load consists of eight are allowed to dry, the idea being to 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 forty one are of less than 500 population. The 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 coagulating chemical will be added. 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 stewn in the sketch. The arrangement building opens the box, records the room number and notifies the proper expressman 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 inth good eyes it was found that a person seen once before could be recognied at see twice these distances, probably on account of their constant training in making out the nature of distant ob-

Fastener Holds Tongue of Shoe.

An invention by a Canadian is designed to prevent the tongue of a short from slipping down out of place. The contrivance consists of a ball and socket angue and fitting into the socket, where the eyelet is employed, a separate 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, tric company has an operating force of and to keep out of the dripping rinse



eliminate the use of the towel for drying. By this method the dishes are both cleaned and sterilized.

Electric Service.

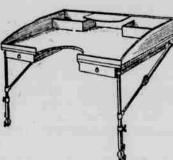
The cost of lighting at the present time averages only from 1 to 2 per cent of the cost of living and in one of the smallest items on the list of regular experses. If it is really advisable for a state to go into business in order to reduce the cost of living there are other lines in which even a small saving, if accomplished, would amount to more than the entire cost of lighting. For instance, food amounts to 35 to 45 per cent of the cost of living, and a 5 per cent reduction in this item would be the same as the furnishing of light for nothing. Besides this, the price of food is steadily going up while the price of electric light is steadily going down, and that without any great expense to wine and water, or pure water. the state.

World's Largest Filter Plant.

The world's largest mechanical filtraion 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 filler box measures 59x28 feet in plan and contains a 30 inch depth of fine and and a 12-inch depth of gravel. Before entering the filters the water will pass through sedimentation basirs where a

Bed Desk for an Invalid.

An adjustable desk or table for an invalid or convalescent can be made as



of the top may be in this or any other a distance of 80 feet, while an acquaint- manner to suit the maker. The lengt's ance could be recognized at a distance of the desk should be the same as the of 300 feet, and an intimate triend or relative, at a distance of 500 feet. The ards made of two pieces of tubing, one various parts of a man's body can be distinguished and any decided movement can be detected by an expert rifleman at a distance of 300 feet. At 1,800 feet a man appears as a spot on the landscape and cannot usually be seen if he keeps still or if his dress does not contest with the landscape and cannot usually be seen if he keeps still or if his dress does not contest with the landscape and cannot usually be seen if he keeps still or if his dress does not contest with the landscape and cannot usually be seen if he keeps still or if his dress does not contest with the landscape and cannot usually be seen if he keeps still or if his dress does not contest with the landscape and cannot usually be seen if he keeps still or if his dress end to adjust the rear part of the desk does not contrast with the background. to a comfortable height for the user. Sailors, hunters and farmers can usually Thumb nuts are used to clamp the desk can twice these distances probably on to the bed.

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 fastener, the ball portion being on the impose upon the concrete poles that the wooden cressarms on some of them were which in a man's shoe is part of the broken; the concrete poles themselves, hook itself, while is a woman's shee, however, remained intact. Many of the poles, however, were entirely demoished.

Health and Sanitation

chiefly within doors must en-deavor to obtain or should have obtained for them as far as possible by employers-by way of compensation, a regular supply of fresh air without providing umbrellas, which are always draughts, an atmosphere as free from getting damaged. duss 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 variety and vegetable produce, including fruits, should form a fair portion of the diet consumed, with the addition of eggs and milk if no meat is taken, except in the form of soup, and little other animal food than fish, fewl and game,

On such a dietary, and without also helic stimulants, thousands of such workers may enjoy, with very little exercise, far better health and more strength than at present they experience on meat and heavy puddings, over, 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 ercosote should not be prescribed in pills. capsules, or alcoholic colutions, but pure time into a continuous discipline in and in drops. The effective dose is about seven or eight drops taken twice the trouble to watch himself carefully daily, immediately after breakfast and after dincer, in a glass of milk, beer, upon any work that calls for close at-

creased by one drop daily until the de-sired effect is obtained. In this way the necessary dose is determined for self, not so much by his labors as by each case individually. This treatment his neglect. has to be continued for some timesome months, in fact-and not only overcomes the chronic constipation, but and braces up the system.

T HOUGH emaking eigerettes is really harmful for boys, they smoke not because they are busically bad, but in muitation of their eldern. It is the parents' dety to prove to the boy that smoking me, 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,

Y CHILDREN never carry umbrellas, writes a friend. Instead toned into an inside pocket of the over-

If rain comes on the hood is button- on or near your premises.

HOSE who have little time for ex-ercise and are compelled to live turned up and the hood drawn over the head the little one is as cozy as possible and takes no harm from the rain.

The hood can be quickly dried afterward. I find it a far better plan than

TO PIECE of advice the physician ean give will bear more frequent repetition than the pithy sentence, Breathe deeply." It is a perfectly simple rule of health, yet it is constantly broken.

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 disci-pline are poor, as is the case with most insufficient breathers, it is a good plan to join a gymnasium or calisthenic class and learn to use the lungs as a baby learns to use its feet and hands. But remember that lessons in breathing will do no good if the scholar thinks he is

A simple method for those who have not time or opportunity to attend a gymnasium is to turn life's daily roubreathing. If the poor breather takes he will find that when he is engaged tention he does not even breathe as To begin with, one drop of creosote deeply as usual; he almost invariably s administered, and that amount in holds his breath. Thus the blood current is vitiated when it ought to be cleansed, and the worker exhausts him-

Draw in deep drafts of air every time you take a breath, and every little while stop everthing else and fill your lungs at the same time restores the appetite a few times with breaths that test their capacity. You will be surprised to see the improvement that it will make in your general condition.

or garbage boxes. Keek garbage receptacles and open vaults tightly covered, dark and clean daily.

Sprinkle chloride of lime or liquor cresolis compositus over manure piles and other refuse. Keep manure screened if possible. It should be removed at should be boxed in air-tight receptacles. Pour kerosene into the drains.

Clean cuspidors every day. Keep a 5 per cent solution of carbolic acid in each one is provided with a rainproof them. Don't allow dirt to accumulate in bood, which when not needed is butcorners, behind doors, back of radiators, under stoves, etc. Allow no decaying matter of any sort to accumulate



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