## Marvels of Everyday Science

Competent Scientists Apply Their Skill to Problems of Agriculture, Houskeeping, Schools, Business and Governmental Activities.
 est community in Wisconsin, having an independent central station plant generating its own electricity. The elec
tric company has an operating force of tric company has an operating force of
one man, and its generating equipment consists of a 12 hp . gas engine belted to a $5-\mathrm{kw}$. direct-current dynamo. The incandescent lamps, and commercia lighting is given from dusk until 11 m . The Railroad Commission of Wis consin reports 140 villuges in Wisconsi with less than 1,030 population, havirg electrie service utilities. of these forty one are of less than 500 population The total number of electric tervic utilities in the state is 293 . There ar eventeen gas or oil engine plants an or in part by water power No lest than seventy eight cities and village are supplied from municipal plants,

New Syatem Calls Express Wagon Promptly.
Each tenant in a new office bnilding in New York is provided with a num


Units Used in Novel Call Bystem for Expressmen. bearing on the one side his room num ber, and on the reverse, the name of an
express company. When he desires to express company. When he desires expressman call at his offic for a package, he deposits a check in special chute in the elevator wall, as the check drops down to the first floor where an authorized employe of the building opens the box, records the ryom
number and notifies the proper express. number and notifies the proper express.
man he is to call at that room. The man he is to call at that room. ns 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 obect of decognition of one solldier by another is reliable. For soldiers iwth good eyes it was found that a person seen once beforc conld be recognied at a dietance of 80 feet, while an acquaint ance conld be recognized at a distan:of 300 feet, and an intimate Mricnd rarious parts of a man's body an be distinguished and any decided move ment ean be detected by an expert rifle man at a distance of 300 fect. A 1.800 feet a man appears as a spot on the landscape and cannot usually be seen if he keeps still or if his dres oes not contrast with the backgraund. Sailors, hunters and farmers ann tsaually see twice these distances, probably on sccount of their constant traning in makis.
jects.

Fastoner Holds Tongus of Shoe. An invention by a Canadian is do from slipping down out of place. The fastener, the hat portion heing on the nguse and fitting into the socket, Whed in a man's shos is purt of the where the eyelet is swiployd, a sequrate socket is inserted.

Pan and Rack for Drying Dishes. Asts simply of a pan, 20 inclies squar itted with a removable wire rack to hold the dishes on edge while draining, ater. After the the dripping rinse hey are set on edge in the rack, scald g water is poured over them and they

eliminate the ase of the towel for $d$ ry ing. By this method the dishes are hot cleaned and sterilized.

## Electric service.

The cost of liphting at the present of the cost of living and io one of the smallest items on the list of regular ex perses. If it is really advisable for a paste to $g$ ? into businces in order to re
se duce the eost of living there are other lines ia whieh even a small saving, if aceomplished, would amount to min
than the entire eost of lighting. F instance, food amsunts to 35 to 45 cent of the cost of living, and a . Je the same as the fursishing of light for the same as the furcishing of light for
nothing. Besides this, the price of ford is steadily going un whit the price
of electric light, is steadily going down. and that withows ary gons: expense the state.

Worid's Largest Ficer Paint. The world 's largest mechaniesl filera tion plant is undez cosstruction at St.
Levis to purify the citr's water rupaly from the Mississippi River. The de sign provides for forty fiter. urits ench one of which will be capabin of filtering measures $59 x 2 s$ feet in plaw and con taies a 30 inch depth of fine sund a a 12 -inelh depth of gravel. Beforc ering the filters the water will pas thrcugh ecdinentation basirs wlire
coagulatiug shemical will be added.

Bed Desk for an Invalid. An adjustable desk or table for a shown in the sketeli. The arrangement

tho top may be in this or any othe manarr to suit the maker. The leng width of the bed. Two verfical atand ards made of two pieces of tubing, one telescoping in the other, are usel as the supports. Climps are attsched to
the upper endx of the larger, or out the upper ends of the larger, or out-
side tubes for use in holding the desk at the height set. A brace, also made of two teleseoping tubes, is nsed at asch end to adjust the rear part of the desk to a comfortable height for tae serr. Thumb nuts are used to clamp the desla to the bed.

Concret Telegraph Poles Reinforced concrete telegrapl along the Pennsylvanis Rnilroad in the vicinity of the New Jeravy entrance to
the Mudson tumels proved diaring the blizzard of March a their soprtiorit
 how -ar, remained intact Nany of th
We 1 inles , however, were eutivel

## Health and Sanitation

BY A PHYSICIAN.
ed on to the buttons sewed under the

,Hose who have little time for ex
ercise and are compelled to live chiefly within doors must encavor to obtain-or should have ob tained for them as far as possible by employers-by way of compensation, a regular supply of fresh air without
draughts, an atmosphere as free from draughts, an atmosphere as free from
dum and other impurities as can be obtained, with a good supply of light
and some artificisl warmth when need- $T$ repetition than the pithy sentence
Theso necessities granted, eareal foods, such as weli made bresd in variety and vegetable produce, metuaiag
fruits, soould form a fair partica of the diet consumed, with the addition of egg and milk if ao meat is taken, except in the form of soup, and little other
arimal food than filh, fowl and guase On sueh a dietsry, nnd without al On suè a dietsry, nric withot such holic stimalants, houmateds of such
workers may enjoy, with very littie exercise, far bitter health and aure trength than at praset thay enfori
once on meat and heavy odatagk, ofor vaker's bread and cheese.

## $\sum^{R}$

EOROTE is an oxeellant meaus - combating chroaic conatipation without exereising any purgative ac
tion properly so called. The croo. sote should not be preseribel in pille capisules, or alcolalio solutions, but pura and in drops. Thas cffective dase is
about seven or eight drops taken twiee daily, immedistely efter break/asit and after dimer in a glase of nills, beet
wine aut whler or pars water. To begir wita, ora drap of is administered, and that amount in crsased by one drop, dsily until the ds
sired effoct is odtaiach. In this way wred etloct is oetuiach. In this say has ta be continued for some ti:nasome noenthy, in finet-and not snly overcans the chromic constipatict, het
st the same time restores tha apputic THon the system.
$T$ Hovalt moking cigerettes is zeorl? harafut for bovs, they simoke not
becarse they une tujemhy bat, tot in intiation of their elders. it is th smoking rie, pravent his beeaming ar athicto ord the it will affect his chest expassinn a a, maseadar de eelppment.
Sece to it thant he distingriaken the res! See to it that be distingriakes the res
from the ehera sport aral desires to imitate the right kind of diter fellos.
M ${ }^{\mathrm{Y}}$ TEII DREN never carry umA. brellas, writes a friend. Instead caeh cho is, rovided with a rainproof
hood, wilaich when not needed is but hood, vaicla when not needed is but osed into an inside pocket of the over- tors, under stoves, ete, Allow of radiaWETEACH YOU TOPLAY Any Instrament Easily --Quickly


FARMS WANTED We will be Pleased To coreremad with yen in reation to




