## Marvels of Everyday Science

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

TE HAMLET OF CLAYTON, popaJation 220, is perhaps the small
est community in Wisconsin, an independent central station plant generating its own electricity. The elee tric company has an operating foree of ono man, and its generating equipment consists of a 19.hp, gas engine belted to a $5-\mathrm{kw}$. direct- eurrent dynamo. The
street lighting load consists of eight fucandescent lamps, and commercin lighting is given from dusk until 11 p m. The Railroad Comnission of Wis consin reporss 140 culages in Misconsin electric service atilities of those fortyoue are of less than 500 population The total-number of electric netrio utilities in the state is 233. There ar seventeen gas or oil engine plants and eighty two plants operated either wholly than seventy eight cities and village are supplied from municipal plants.
Now System Calls Express Wagon Promptly.
Ench tenant in a new office building ber of small metal disks or checks, eact


Units Used in Novel Call Bysterm for Expressmen.
bearing on the one side his room nur ber, and on the reverse, the name of a express company. When he desires to
have an expressman call at his office for a packare he deposits a check in for a packnge, he deposiss a cliek in
special chute in the elevator wall, and the check drops down to the first floor whero an authorized employe of the 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 nuthority to receiv the package.

## How Far a Man Can See Distinctiy.

 Some interesting experiments have been made in the German army with the objoct of discoovering at what dis another is relinble. For soldiers iwti good eyes it was found that a person a distance of so feet, while an acqusint ance could be recoguized at a distance of 200 feet, and an intimate 1riend various parts of a distinguistod and any decided move mont can be detected by an expert rifle 1,800 feet a man apprars ais a spot on the landscape and cannot ustraty be seen if he keeps sul or his dres Sailors, hunteres and farmers can usually see twice these distances, probably o see twice these distances, probably oin making out the nature of distait ob
## Fastosar Holdar Tongus of Bhoo.

 An invention by a Canadian is dosigned to prevent the tongue of a phor from slipping down out of place. The coutrivance consiitts of a ball-and-bockel fastener, the ball portion being on the Which in a man's shoo in part of the where the eyclet is employed, a separa socket is insert od

Fan and Rack for Drying Dishes. A new deviee for drying dishes con
ists simply of a pan, 20 inches square fitted with a removable wire rack to hold the dishes on cdige while draining and to keep out of the dripping rinse ater. After the dishes are washe ing water is poured over them nad they

iminate the use of the towel for dr cleaned and sterilized.

## Electric Service

 fime averages only from 1 to 2 per cen of the cost of living and is one of the smallest items on the list of regular ex persee. If it is really advisable for tate to go into basiness in order to re duce the cost of living there are other lines ia which even a small saving, ifaceomplished, would amount to mor accomplished, wouk amount to more instapee, food ampunts to 25 to 45 p cont of the cost of living, and a o per
cent redaction in this item would be the same as the furnishing of light for nothing. Besides this, the price of foot is steadily going up white the price of electric light is steadily going dow
and that witho:* ary great expense the state.

World's Largest Filtar Pant The world's largest mechanical filtra tion plant is under cosstruction at St,
Lenis to purify the city's water cupaly frou the Miesissippi River. The de sign provides for forty filter units eneh one of which will be capabie of filtering $4,000,000$ gallons daily. Each filter box measures $58 \times 28$ feet in plas and con tains a 30 -inch depth of fine sund and a 12 -inch depth of gravel. Before on
tering the fitters the water will pass tering the filters the water will pasa hrough eedinentation basirs wter-
congulativg chemical will be added.

## Bed Desk for an Invalid

 An adjustable desk or table for a skewn ia the sketeh. The arrangement
of the top uny be in this or any oth of the desk should be the same as the idth of the bed. Two vertical stand elescoping in the other, are usei as the eupports. Clamps are attached to the upper ends of the larger, or outside tubes for use in holding the desk twe height set. A brace, also made and to teleseoping tubes, is used at each a comfortabe rear part of the deak thrmb nats are used to clamp the desl the bed.

Concret Selegraph Poles. Reinforced concrete telegraph poles long the Ponusylvanis Rairoad in the he Hudson tunnels proved daring the hazard of Msrch 2 their superionty
ver the ordinsry kind of wooden pole So severe a losd did the ice-coated wire wooden erossarms ea some of them wer roken; the concrete poles themselves wowaer, remained intact. Many of the demolished.

## Health and Sanitation

TBY A PHYSICIAN. SE who bave little time for ex-collar of the coat. Whem the collar i ercise and are compelled to live turned up and the hood drawn over the chiefly within doors must en- head the little one is ns cozy as poswavor to obtain-or should have ob- sible and takes no harm from the rain. ained for them as far as possible by The hood can be quickly dried after
emphoyera-by way of compenation, a ward. I find it a far better phan than regular supply of fresh air without providing umbrellas, which aro always druughts, an stmospliero as free froms getting dumaged.
dure and other impuritien as can be
btained, with a good supply of light
ed.
These necessities granted, esreal foods, such nts well made bread in va
riety and yegetablo produce, including fety and vegetablo produce, including
fruits, should form a fair portion of the diet consumed, with tha addition of egg" and milk if to meat is takon, except in the Yorm of soup, sud little other nimal food than filh, fowl and goue. On such a dietary, and vithout alenholic stimalants, thousanias of such workers may cnjoy, with very little ez. strength thnin at prosezt they experience on meat and heavy puddiugs, bace,

C
EOSOTE is an cxesfleat means of combating ehronic constipntion ion properly so called. The croo rote should not be prescrital is pille. apsules, or alcoholic solutions, bat pura and in drops. The cffestivo dase is about seven or eight drops taken twice
daily, immediately pfier brethifint and daily, immediately zfier brenkfint ana
fter diener, in a plars of till, beer ifter dianer, in a ginses of taik,
wine and water, or purs watar, wine and water, or purs wato
o administered and thot amonat ereased by one frop duily until the de sired effect is obteined. In thin way the necessary dose is determined for anch caso individally. Tha troaiment has to be contiaued for some tiac-ry
some months, in fact-and not asly overcomos the chronic constipation, but at the same time restores the appotito and braces up the gyetem.
THOUGR Emoking cigarettes is reully hamful for boys, they smoke not mitation of their elderi. It is th paraats' duly to prove to the boy that swokiag ma; pravent his beenming an: athlete ond thet it will affoct his clies: oxpanaion sud maseular development. See to it that he distingniskes the real from the chesp sport and desires to
imitate the right kind of clicr fellow.

M ${ }^{\mathrm{Y}}$ BHIL DREN never carry am ore is, writes a rith Instesd , which when not neeind is but oned into an inside pocket of the over If rain comes on the hood is button-

PIECE of adviec the plysician can give will bear more frequent repatition than the pithy sentence, "Breathe devply:" It is " perfeetly y broken.
$5^{p}$ or kero chloride of lime, erude oil keroiene over contents of vaults here accasion mauced the primal oreathe. If our powers of self diseipline nre poor, as is the case with most insufficient breathers, it is a good phan to join a gymunnium or calisthenic class learns to use its feet and hands. But remember that lessons in breathing will do no good if the scholar thinks he is bsolved from his task except wheu he $s$ in the class.
A simple method for those who have not time or opporiunity to attend a bymakium is to turn life's daily ronrenthing a continuous diseiplite in he troubie the poar broather takes bie will find that when the carehing apon any weris that sulls fur close at tention be does not ceven brealle as deeply as urnal; he nimost invarinaly holds his breath. Thus the bload cur rent is vitiated when it ought to be cleansed, and the worker exhausts himself, not so much by his lubors as by
Draw in deep drafts of air every time you take $a$ breath, and every little while stop er \&sthing elise and fill your lungs a few times with breatho thet test their capacity. You will be surpriged to
the improvement that it will make in your general condition.
garbage hoxes. Keek garbage recepacles and open vaults
Sprinkle chloride of lime or hiquor cesolis compositus over manure piles and other refuse. Koop manure soreened possible. It should be removed at least once a week, and where it caunot, nould be boxed in air-tight receptacica Pour kerosene into the drains.
Clean cuspidors overy day. Keep a hem. Don't allow dirt to accumulate in corners, belinud doors, back of radintors, under stoves, etc. Allow no decay

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We will be Pleased to correspond with you in relation to Twenty Twenty years' practice in Oregon.

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