## Marvels of Everyday Science

Competent Scientists Apply Their Skill to Problems of Agriculture' Housekeeping, Schools, Business and Governmental Activities.
G. which the projecting foree was centrifugal motion instead of tha explosion of powder. One great troubie
in such guns bas been that the missiles in such guns has been that the missiles
eould not be readily fed to the barrel, eould not be readily fed to the barrel,
which was revolving at such higi velo. eity. An invention recently patented in fieulty, according to the Pathfinder In this machine there is a hopper to holding the bullets. This hopper has channel or pipe connecting through th journal or central pivot, as shown in the sectional sketch herewith, so tha

a constant supply of bullets may be kept ap, even while the disk is in rapid motion. A cam arrangement operates so vals, as desired, and thus the shots may be controlled while the apparatus running.
With the diak revolving at a stated speed the direction taken by the bullet will be constant. Provision is made of
course for shifting and sighting the ap paratus so that any target may b brought into range. A number of in ventors have been injured by exper menting with centrifugal guns, for the bullets are very apt to go wild, secing that their destination depends ver, much

How to Make a Glase
With a piece of ordinary twine, any one can converkin alass, Loop the twine around the bottle at the place de sired, as shown in the drawing, and
saw for about one ninute
 merse the bottle in cold water and
will break where the twine sawed. Car must be taken to have the twine mov along the same line during the operation, and for that reason the bottle should be held in a vise, or a make shift vise.

How Snakes Swallow Fish
A suake, when it attempts to eat a fish, must swallow the latter head firs on account of the fins. The nes enught by the tail or crosswise of the body it must first be defty lifted out of water and turned as disclosed Ey lish camera man.-Will Day.

Dust Collectors in Mills. The use of efficient dust collectors bas almost elimimated the dangerous wh has almost eliminated the dangerous
dust explosions and fires formerly so dust explosions and fires formerly so
frequent in grain elevators and mills, frequent in grain elevators and mills,
They have also made conditions more tealthful for workmen. A fan forces the dust- laden air directly from the milling machinery to the collector, which consists of a central drum and a num ber of radiating tubes. Each tube con sists of a frame covered with a filter ing eloth which allows air to pass freely collects the dust and pours it into collocts the dust and pours it into a

Here is a Why Is This Thus? friends with. Taratex to fool your ordinary folding rule (a two foot rule is best), and ask sour friend what will happen if you tie tho hinge on the rulc underneath of ourse he will say that the rule will at onee fold up, for it will do that even without the hammer being hung on it However, it's casy enough to do im possibilities provided you know how and that is the ease in this instance. You tie the hammer in the rule exactly shown in the picture. You may hav to try several times before you will get

What

it just right. Then the rule it will remain stiff and straight and will not fold up, in spite of the weight of the hammer. In fact, it is
the hammer which keeps it from folding the hammer which keeps it from folding
up, for the weight of it is so placed up , for the weight of it is so placed
that it produces a leverage upward on the end of the rule, as you can readily we when you try it.

Novel Movable Water Tower Differing from the usual form water , tower, which throws only on crior of a burning building, a new type as been invented designed to throw

directions against the flames. The dis charge pipe of the new tower is coninto a window or other opening, the end being equipped with a number of nozzles presented in different directions, The pipe may be rai
tilted at any angle.

Other Interesting Inventions. The Whitney brothers of Nark Kan., have been granted a patent o their road grader, which is operated by
a gasoline motor. They had waited tw cars for the grant.
A clip to hold a lead pencil upon a finger so a writer will not have to lay down when he wishes to use his hand for some other purpose, has been in ented by a Missourian.
The seats on a recently patented
ight seeing autonobile are slowly re sight sceing autonobile are slowly rehe passengers to see both sides of treet without twisting their neeks. For military purposes there has been invented a rifle with a barrel so trengthened and provided with a plug or the muzzle that it can be used to bore a hole through an embankmen
user being out of sight to a foe. user being out of sight to a foe. A pistol which looks like a watch, the arrel being in the sem, has been pat nted to be used against a highwayman when ho
At the bottom of a recently patented ndder is an adjustable curved brace, so made that it stands firmly on an un ven surface.
Two novelties to nid gardeners are s hoe with a seed box near the blade with which planting may be done, and hovel with a 8 s
down the bandle.

## wn the handle.

An ininois inventor's swimming maIts user's hands and feet, while hi chin attends to the stecring.

## Health and Sanitation

## A word about rabies.

 $\mathbf{F}_{\text {all }}^{\mathrm{ROM} \text { time immemorial the people of }}$ all nations, from the barbarians to the most highly civilized, have feared what is commonly known as themad dog. The terrible results that nad $\log$. The terrible results that
follow bites from dogs in this condition have justified the fear, for it meant death until the memorable work of Pasteur who gave to the world a treatment which has proven to be a godsent in arresting the progress of the dis-
ease. Men who prepare the anti-rabic virus take the same treatment as thos who have been bitten to immunize themselves against accidental infection. The dissection of a dead dog's head is handling of a live rattlesnake, with only
rubber gloves for protection.
The disease is not infectious in the
same sense as some other diseases, but is transmitted only by bites or abrasions of the skin. The specific cause is not known to exist in any place in the conomy of nature, and as it is transous animals, any measure that will prevent them from biting one another will stamp it out. The recent netion taken attle in rassing a muzzling ordinance is to be highly commended, for despite the attitude taken by some who are not in a position to know there is, and has been, rabies in Portland and Oregon for some time. It is the duty of everyone to help enforce the ordinance to protect the public. He who loyes his child should protect it, and he wh loves his dog should protect it also.
FACTIOUSNESS and restlessness on the baby's part are frequen screaming during the night. Try the following plan before putting the little one to bed: Get a bath ready with the water deep enough to reach to the
child's waist when sitting down. Fasten a shawl or small blatiket aroun the neek to keep the top of the body warm. Neither shawl nor hands
should be wet. Keep the baby in the should bo wet. Kecp the board may be
water five minutes. a bor water five minutess.
fixed seross the bath at one end to fold a few toys to amuse the child. The temperature of the water should be 104 degrees. The lower part of the little body will be quite red when taken out.
Give it a good brisk rubbing and pop Give it a good brisk rubbing and pop
the child into a warm bed. It should sleep quietly and soundly till morning
FLIES often by alighting on tuber cular sputum or any other form of debris and then by depositing thei excreta on food stuff trans
from one point to another.
Flies' legs are covered with little Flies' legs are covered with little
hairs and on these lairs the germs hairs
lodge.
A fly will carry typhoid bscilli, ous other kinds of bacilli on his feet and then plant them on our food.

## on measles.

HE one great obstacle in the way of the control of measles is that the disease is communicable in the pre-
ptive stage (just before the "breaking out ") before a diagnosis can pos sibly be made.
It is, therefore, very difficult to handle epidemics with any degree of
success, because these children attend success, because these chidren attend spread the disease broadeast before any one can recognize that trouble it brewing.

## The bes

The best we can do is to isolate the other children in the same house from going to school or other public places and educate the publie that they sh. isolate all children who present the first
symptoms that point in nyy way to an symptoms that point in any
approaching case of measles.

THE HOUSEWIFE'S DUTY
TO DEMAND cleanliness of all per sons handling foodstuffs. To insiet upon food being pro To purchase no bread which hase b
in dirty bread beres on the street. To demand general cleanliness of groery and meat shops. To inquire whether poultry is cold torage or not.
To personally
To perbonally investigate the dairy which supplics her with milk.
To be certain to receive full weights

## d measures.

SOME HEALTH POINTRRS.

## The ideal health officer devotes mo

 ime to food regulationGood food is the basis of life and Well
Welth.
resist resist commumicable disease infec tion.


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