## Marvels of Everyday Science

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






 the neropiane is is atad feet. The wing

 vision is made for installing a fifth mo
tor if desired. Vacuum-Cleaner Nczzl. Has Brush Inside. nozzle, for use with va.uum cleaner which 'ᄀns : revolving urush so arran

the brush assists in raising the dust particles, lint, thread ond of ther remov-
able dirt, and the action of the cleaner
is more efficient.
Chinese Method of Preserving Eggs. Covering eggs with a thin layer of
sea salt and vegetable ashes, made into
a paste with water, the Chinese succeed a paste with water, the Chinese succeed spoil quiekly, and may be shipped lon
distances. The paste is put on about quarter of an ineh thiek, and the egg are then piled up and allowed to dry
When required for use, they in water, and the paste dissolves readily. It is found that the salt penetrates th cidedly saline taste to the egg, hence they are used for purposes where the salty taste is not objectionable.
Automatic Hone Sharpens Scissors. A hone with en automatic guide that
bolds the blade of a pair or shears in the right position by means of a clamp ing and pressure spring, has been plae simple in operation and sure ir results The base, upon which the carriage tiage can so arranges far the car ed guide holds the blade of the shear at the rig' $t$ angle upon the surface o
the hone. Once fixed in position, the

shear is moved back and foth until properly sharpened, as the spring give the requisite pressure and hold the blade rigidly while honing.

## Motorcycle Saves Explorers.

When the rear axle of their automo bile was damaged, a party of English men who are exploring the darik conasved from disaster through the posses. aion of a motoreycle. One of the party mounting the "single tracker," started baskward over the jungle patis for an outpost of civilization, where repairs tonld be obtained, eventually returning The party is equipped, in addition to

| of special interest. | Health and Sanitation |  |
| :---: | :---: | :---: |
|  | edo, Individual eleanliness that |  |
| Tre prineipal fraturo of this moto | epidemie Many more of our eities |  |
|  |  |  |
| in the front aud rear raillaying wheels |  |  |
| whieh enable the vehicle to traverse | extensively done. An epidemie of any contagious disease once started is much |  |
| stretches of ceep sand and without beemming | more difficult to control than to es- |  |
| wheels of the engine, as may bo seen, | tablish the prevention. <br> Why did the French fail to construct |  |
|  | Why did the French fail to constructthe Panama Canal? Because they en- |  |
| when tic |  |  |
|  | deavere to trat uisase atter it oe. |  |
| load of thiry five tons and weighs | vent it It is mueh more difficutt to |  |
|  |  |  |
|  |  |  |
|  | eases in December. Portland had five, |  |
|  | bat the latter eity did not escape be cause vaccination is so thoroughly done |  |
|  | -in fact laxity in this respect is con-stantly inereasing. In Montraal, during nine month in 18s,suceumbed to smallpox.suct pers. |  |
|  |  |  |
|  |  |  |
|  | Saginaw, Miehigan, a few years ago, |  |
|  | was quarantined as a whole against thesurrounding country. What a terrible |  |
|  |  |  |
|  | calamity to any city from a business standpoint, if nothing else. | link ${ }^{\text {nke our less fortunate dwellers of the }}$ slums, we had to carry our water from |
|  | There is no reeognized standard text |  |
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|  | r supply and would make light |  |

## Dangers of Firc Season Explained

Western Forestry and Conservation Association Reports P gress in Preventive Work
$I^{\mathrm{N}}$ heavy rains, are reported by State, Federal and private 1orest forees to the
Western Forestry and Conservation As sociation, which serves as a clearing house for all forest protective ageneies in the Preifie Northwest. The early in the Pacifie Northwest. The early inflammabie vegetation well advanced, is considered to cause inereased ha
if hot, dry weather is prolonged. For the next few weeks, before care less campers and hunters become most numerous, slashings and uncleared
rights of way are the greatest sourc of danger. Settlers, loggers and road crews are urged to clean these up as
long as it remains safe to do so, but long as it remains safe to do so, but
reminded to take ever: precaution and reminded to take ever: precaution and
that from , une 1 to September 1 burnitg withou' permit from a fire warden s punishable by law, besides carrying liability for heavy damage if dcstruc agencies report, however, that publie sentiment in these ma'ters bas greatly improved, there being much less care essness than in former years when the injury from forest fires to all members

## A

 A hotel, when presented with his bill sdignant at its amount "I wish see ze proprietaire," he said to the clerk. In a minute the proprietor ap peared.The Frenchman was all smile Ah," he said, "I must embrace you. But why should you embrace me? eked the astonished botel keeper, " o not understand. "
"Look at zee bill
''Yes, your receipted bill. What of
'What of eet! Simply zees, saire. It means zat I shall nevaire, no, nevaire,
of the community was less realized. B
sides the danger to the life and prop sides the danger to the life and prop
rty of settlers, every loss of timber re duces the return from forest indnstry, whieh is the greatest source of com tates and contributes to every other in dustry. Settlers are beginning to recog dize it as the greatest support of market for farm products.
Method and expenditure Zor patrol and fire-fighting have been carried fur where els in America. The chain allied timiver owners' associations exlending from Montana to California ing several hundred patrolmen, besides mergeney help, and spending large ams for telephone and trail construe ion. These systems dovetail under co perative $t$ greements into those of the trites and the government, making a friple alliance which covers the entire patrol than ever before is being mad his year and the publis being made reciprocate by exereising unnsual to with slashings, eamp fizes, matenes and obaceo in the woods,

TiRS, PANKHURST, as the Majestie 8 sailed from New York, talked to a fulness of men and women. "Women," said the reporter, "are the more deceitful. ", "Noport, " "No," said Mrs, Pankhurst, "men
are the worse. Look at the way they deceive their wives,"'
Mrs. Pankhurst smiled and tossed her Mrs,
head. "Oh, no," she said. "How could the average man ever get o wifo if hedidn't deceive her ${ }^{1}$
A Californis firm is selling euealyptus
charcool at $\$ 24$ os ten, as againgt 820 a ton
 are being soughi

