In The Automobile World

NEWEST NOTES OF SCIENCE

dles is made of seaweed, Uruguay has about 1,600 miles of railroads, but only one tunnel. Leather waste enters into the com- at Arlington, Va., and Rome.

water power. dicular cliffs.

has been invented for plucking feath-lary. ers from chickens.

cal station at an elevation of 4,000 feet the world in radium-bearing waters. TAKE PRIDE IN

oughly cooked yams. A substitute for jute is being made

of abundant growth. Direct wireless communication-has

position of much of the best wall- A Cuban has invented a material reach the chair. made of palm fibre to be used as al In Sweden bricks made from peat substitute for cedar in cigar boxes.

as they are taken from a heater with-Vermont is estimated to have 2,- out re-handling has been patented. 000,000 horsepower of undeveloped According to a London chemist the surest way to determine the age of a Some vineyards in Italy are culti- painting is to analyze the pigments. vated on the faces of almost perpen- A sliding weight on the handle of a new ice pick does the work the An electrically operated machine hand that holds it remaining station-

Careful investigation has led Japan

The Thrift Car

The Overland Model 90 is a big

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-but because it is backed by a

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erate the small size successfully

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car selling at a popular price,

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THE GILSON ENGINE

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Entirely different and infinitely superior.

ALL SIZES AND STYLES

Shields have been invented to pre-A patent has been granted for an vent the propellers and rudders of egg substitute made chiefly from thor- power boats being tangled in fisher- Auto Reflects Owner's Sense

After fifty years of service an or-An imitation bone for cutlery han- in Russia from kenafe, a native plant gan with bamboo pipes in a Christian church in Shanghai still is in fairly

formerly believed.

the share operation. There is authentic record that sewing machine was patented in Eng-American machine was invented.

Alabama was the largest producer of crystalline graphite among the states last year, with New York in second place and Pennsylvania third, the body again with the hose and a Extensive experiments in Sweden have shown that wood cellulose is an excellent cattle feed, and the governnent is fostering its manufacture. Apparatus which photographically records every motion made by a man's hand with a machine or tool has been any machine or road oil on it.

Mud should never be permitted to nvented by an efficiency expert.

A London railroad station has been juipped with penny-in-the-slot ma-A California inventor's wave power the lustre from the finish. motor utilizes the horizontal motion of the water instead of the vertical, usually the case in such devices.

Garbage wagons in a German city are arranged to be drawn either by Why the Use of a Car is Keal horses or electric tractors, the latter being 36 per cent, cheaper to operate. ed that it can be lowered into a tubu- in the use of an automobile," says R. lar casing for painting of repairing.

same heating value as 60 tons of coal. the aggregate of many of these small tachment for stringed instruments has sum." been invented which produces the de- "That is the very root and essence sired effects when buttons are press- of the thrift movement now on foot

ment of native horses and live stock most cases it costs a man less to do the Brazilian government will estab- a given amount of work with an lish twelve zootechnic stations in as automobile than without one. Then,

for bathroom spigots which can be such a mistaken conception of thrift connected to an electric light socket would tend to cripple an industry to heat water in small quantities as it which ranks near the top in the

in Western Mexico has been found purchases, and so forth. Killing the to contai nenough resin after the goose that lays the golden egg is not death o fthe plant to make its utiliza- thrift. tion practicable.

duce about 500,000 candlepower by ning your engine idle, even for one using a 1,000 watt neitrogen filled in- minute, is sheer waste. Asquire the candescent lamp.

are experimenting with their own the gasoline system frequently from refuse for use as fuel, one textile mill tank to carburettor to discover and producing all the steam it needs from stop wasteful leaks. hoddy waste.

a Southern California city is so other waste. It not only takes connounted that it can be lowered to siderably more power-gasoline-to

French engineers have built a ma chine that is operated by electricity and uses galvanism as its principle in which broken steel is made to heal it- to a smooth street; don't wilfully self much as wounded flesh heals. A portable track welding outfit ting them to pieces in car tracks.

been invented for small street railways that do not require elaborate open a pottery that was built in 1396. nad which is said to be the only place that has preserved the ancient ways

of making porcelain of rare colors and bined by an Ohio inventor into a de- has been on a wheel for some time vice for cleaning billiard tables more the rubber adjusts itself to its posi-

seeds of tomatoes, the former for in one direction, it recedes before a stock feed and the latter for oil, useful blow in one direction. Therefore in its crude state for soan and illumi- when a motorist removes a tire for

According to a Geological Survey direction."

Although a steel tube is stronger direction. and more rigid than a har of the same metal of equal weight, a French scientist has demonstrated that a tube is more flexible than a bar of the same exterior dimensions.

A speed of nearly 75 miles an hour has been attained by a unicycle built by a. St. Louis inventor, the machine consisting chiefly of a single wheel almost seven feet in diameter, drawn

by an aerial propeller.

The government of Brazil is planning to experiment wit hthe production of jute, as no native fibre has prove dan acceptable substitute, and the coffee trade of the country alone uses 10,000,000 jute hags a year . Patents have been granted to a Connecticut woman for a baking board consisting of a pad of waxed paper, from which single sheets can be removed when soiled, and for a waxed paper rulling pin with a cardboard

NEATNESS OF CAR

of Care-Proper Cleaning

A well-polished and clean car in-The root rest of a new elevated variably reflects something of the been established between the station bootblack's stand is hinged so it can owner's personality in respect to be used as a step to aid a person to care and neatness. The best medium for washing a car is good automo-Corrections made recently in maps bile soap, dissolved in a pail of watof Greenland have shown it to be er. A service manager advises the are successfully used in small build- A coal shovel which will sift ashes about 150,000 square miles larger than use of a soft carriage spunge and flowing clear water in a gentle A rotary stump cutting machine has stream a few inches from the end been invented that clears land and of the hose over the wheels, chassis, prepares the wood for paper pulp in and fenders. This will remove most of the mud and dust. - Then cut the oily and greasy dirt with the soap solution, sopping it on freely. land in 1755, 81 years before the first Go over the parts again with clear water, and let them dry.

The dust should be flowed off the ody with the hose, but no water should be put on the hood. Go over wet sponge. Squeeze the sponge dry and take up the surplus water in crevices. Then wet a chamois, wring it, and wipe the body dry. Clean the hood by hand, using a little soap solution locally if there is

dry on the car. Cold water should not be flowed on the hood while it is ines to sell tickets to persons who using water with too much force wish to accompany friends to trains. are injuries. Hot water will take

OFFICIAL PREACHES THRUT.

"Few people even begin to realize The flagpole on top of a tower on a the actual amount in dollars, and New York hotel has been so mount- cents they can save by a little care C. Rueschaw, "Each individual sav-A large flour mill in Argentina ing represents such a small amount ourns much of its bran for fuel, and that we are prone to regard it as finds that 100 tons of it has about the negligible, while as a matter of fact An electrically operated tremolo at- savings runs into quite a respectable

throughout the country. Doing with-For the importation and improve- out a car is not thrift because in too, any serious reduction in the An attachment has been invested purchase of passenger cars due to amount of money it puts back into The bark of a cactus growing wild circulation through wages, dividends,

"True thrift in using an automo-A specially designed reflector en- bile lies not in cutting down the use ables a new projecting lantern to pro- but in eliminating the waste. Runhabit of stopping the engine when-Many English manufacturing plants ever you stop the car. Look over

"Running with under-inflated The sidewalk awning of a store in tires," adds Mr. Rueschaw, "is anform the front of the store when the run with soft tires, but you increase your tire cost by half. Driving in car tracks is one of the worst forms of thriftlessness. If the paving is rough, go slow or drive over a block waste your tires by deliberately cut-

"A little figuring will show that weighing less than 200 pounds which takes its power from trolley wires has the constant exercise of care and dred dollars in a year. Keep track The Chinese Government will re- of your expenses, save that hundred and then buy thrift stamps with it. That's real thrift!"

Observe Tire's Sense of Direction. Tires develop little moods that Operated by electricity, a rotary are almost human, is the opinion of a back and suction fan have been com- a tire company manager, and he exsatisfactorily than vacuum cleaners tion, that is, the rubber shapes itself to turn in one direction. It Italian canners utilize the skins and stretches in one direction, it strains nation, and when refined for table pur- repairs or for any other purpose he should observe the tire's "sense of

estimate, the United States uses about | The suggestion is made that, after 165,000 ounces of fine platinum annu- removal, the tire be marked with au ally, of which only about 65,000 arrow indicating the direction it has ounces are refined in this country, the been running, so that the tire may be adjusted to run in the right

> English Trucks Use Gas Oil. Coal gas for fuel, carried in large rubber gas bags, is being used by 4,500 motor trucks in England. So great has been the demand for gas containers that a short time ago over 2,500 trucks had been unable to get their equipment. Only 4 per cent, of the deliveries of gas apparatus has been for private use. The British Government recently appointed a gas traction committee to onsider what further rules are necessary with regard to gas as a fuel and to make recommendations for the use of gas and flexible contain-ers at atmospheric pressure and also to indicate the limits of approved use under limited pressure in semirigid containers.

Obscure Tire Trouble. It often happens that a tire will ick up a tack in such a way that the and robbed of \$1,500 Manager while the head has been worn off by Charles Hill of the Farmers' Trad- contact with the road. This little ing Company, and set fire to the tack-point will cause small punctures company's grain elevator and lum- of the inner tube. for which there is her yard, causing a loss of 3,000 no apparent reason. Wiping the inwill locate the seat of trouble. If one Sixteen persons in Belgium, some head is cut off of an old casing the of them women, have been sentenced result is a very satisfactory protection It may be pried on before inflating, pointed by East York Liberals failed places in one casing over the strong German destroyers, a large number the Admiralty, made announcement Your final estate, so far as this old

A Country Without Motor Cars

TMAGINE, if you can, a country without motor cars, and you have a country whose commerce is seriously crippled.

The motor car is just as necessary in our daily life as the telephone, the telegraph, or the railroad. It would have disappeared long ago, as many mere fads do, if it had no function higher than mere pleasure. Its permanent usefulness is recognized.

The farmer found that it saved him time and money, broadened his life, and helped him keep his children contented at home. The merchant found it widened his field of business and speeded up his deliveries. The salesman found the car added to his working territory. Business men found they could accomplish more in a working day.

The medical profession as a whole adopted the motor car. Imagine, if you can, the Allies without motor transportation

attempting to fight Germany motor equipped. If you are without a motor car you stand exactly the same chance with your competitors? Buy a Ford.

All prices subject to war tax charges, except trucks and shareis

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Runabout . . 575

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G. H. Richards on, Tamworth.

J. A. Goodfel low, Parham.

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Organization

MICHELIN users have studied means of produc-sometimes wondered ing and selling tires more how it can be possible to sell Michelins at such low prices in view of the unsurpassed quality which is built into these tires.

The answer lies in the Michelin watchword: Economical Efficiency.

Ever since Michelin in-Michelin engineers and "better tires for efficiency experts have money."

efficiently.

Every expenditure that will result in better tires or service has been cheerfully made; but every expense that would not stand this test is scrupulously avoided.

Economical Efficiency has vented the pneumatic auto- enabled Michelin to supply mobile tire 23 years ago, the motoring world with

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LIKE RATS IN TRAP.

The nominating committee ap- and if care is used to locate the weak | London. June 21.-Twenty-one | MacNamara, financial secretary of ly Bombed.

on the Belgian coast. Thomas J. ject of constant bombing.

Canal docks as the result of the re- tions were more successful than had cent British naval operations at Zee- been at first supposed. He added to death by the Germans on the for another casing of the same size. Blocked German Craft Are Constant- brugge, the German submarine bases that German craft were now the sub-

to find a candidate to run against places in the other, excellent service of submarines and numerous auxili- in the House of Commons to this ef- world is concerned, consists of ary craft are penned in the Bruges | feet to-day, and said that the opera- enough earth to cover you up.



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