

In the Automobile World

Newest Notes Of Science

For breeding chickens a Texas inventor has patented a miniature guillotine.

The Swiss government is experimenting with compressed turf as a coal substitute.

An automatic device has been invented to keep railroad switches cleaned and lubricated.

Six varieties of seaweed are used by the Japanese in the manufacture of vegetable isinglass.

An adjustable and readily reground point made of high speed steel features a new lathe center.

South Australia hopes to become a producer of radium as it has discovered deposits of uranium.

A coin in a slot device has been invented for checking hats, coats and umbrellas in public places.

Experimenters have found that arial hemp can be grown profitably in the Italian colony of Eritrea.

Surrounding an indirect lighting fixture that has been patented is a receptacle to hold growing plants.

Silk sausage casings, coated with a chemical preparation that makes them elastic, are a German invention.

The world's highest dam will be

Remodel That Old Style

built across a river gorge in India, 395 feet deep and more than 1,000 feet wide.

For saleswomen and office workers an adding machine that resembles and is worn as a bracelet, has been patented.

A school in which instruction in rowing boats is given on a shallow tank has been established in a London store.

A pneumatic cushion which can be inflated with an automobile tire pump has been invented for use with beach chairs.

The Pacific coast of Costa Rica produces a species of shellfish from which a rich purple dye for silk is obtained.

This year is the centenary of the discovery of quinine, of which more has been used in the world than any other drug.

Railroads in Italy are experimenting with lignite, peat and the latter mixed with other substances as locomotive fuel.

To protect persons from moving machinery an iron fence has been invented, made in sections, that can be erected anywhere.

An English poultryman is the designer of a motorcycle sidecar in which a large number of eggs can be safely transported.

Basket bibs for babies to catch dropped food as well as protect their clothing have been patented by an Arkansas inventor.

French plans for new railroads in Africa contemplate the expenditure of \$800,000,000 in fifteen years on 18,000 miles of track.

Hogs fed by automatic machinery gain weight faster than those fed by hand, according to University of Missouri experimenters.

An English scientist is the inventor of apparatus that photographically measures and records vibrations of buildings or machinery.

For men who take long walks a cane has been invented with a top that unfolds and forms a wicker seat when a user wishes to sit down.

Experiments are being made in Japan with ginseng with a view to maturing the plant in less time than the six years generally required.

The drawbar pull of a tractor can be watched at all times by a driver by the use of a new spring device that records the work on a dial.

Vibrations of automobile frames, airplane wings and other moving objects are measured and recorded by a new machine of French invention.

To make an electric stand lamp of any vase is the purpose of a new

lamp socket with three spring projections from its base to enter the vase.

A Swedish inventor's windmill drives an electric generator by lifting a two-ton weight to the top of a tower, its descent actuating gearing.

A new electric light fixture can be hung on furniture or stood on any level surface and the lamp can be adjusted at several heights and angles.

A governor invented by a Frenchman to regulate the temperature of electric furnaces depends for its action upon the expansion of mercury by heat.

So that a man will not have to hold a telephone receiver in his hand while waiting for a call to be answered a short megaphone has been invented into which the receiver can be placed, amplifying the sound of the voice from the receiver when it comes.

By treating freshly made cheese with alternating electric currents for 24 hours an experimenter in Holland apparently gives it all the properties of age.

An Indianapolis man is the inventor of a lathe for grinding automobile valves in which the centering is done automatically by placing the valve stems in the machine.

From a single river Mauritius expects to get enough hydro-electric power to electrify its 120 miles of railroad, light its eleven towns and supply its industries with power.

Though a baseball ball will break under a blow if its grain is not perfectly straight, it will sustain a load nearly three times as great as a steel bar of the same weight.

Of Austrian invention is a rail cleaner for street railways, consisting of a frame to be mounted in front of a car, equipped with scrapers that fit over the tops of the rails.

For scraping all sides of the flues of a hot-air heating plant a Michigan man has invented a cleaning tool with a jointed handle, the motions of which can be controlled by a user.

Geologists have found that Africa contains less coal than any other continent and that of the 57,000,000,000 tons estimated to exist there the Union of South Africa has about 97 per cent.

After a person has given his flesh a dry rubbing with a new brush the brush can be connected to a bathtub faucet to provide a shower bath, the water being sprayed from the midst of the bristles.

To give sun bath treatment to his patients a French physician has invented a bath house equipped with a lens that follows the motions of the sun and concentrates its light at all hours of the day.

Among the devices for cleaning automobile windshields in rainy weather is one equipped with pads saturated with a chemical solution which, when rubbed on the glass, prevents moisture accumulating.

Using the overhead trolley system on main streets and storage batteries elsewhere, electric cars that will run on ordinary roads without rails will be used to handle freight in and around Shanghai.

After a dozen years of experimenting an Oregon inventor has perfected an automatic device for coupling air-brake and heating hose between railroad cars without requiring trainmen to endanger their lives.

Instruments installed by scientists when a huge reservoir was built in New South Wales have recorded earth quake movements, dislocations and earth tides due to the weight of 30,000,000,000 cubic feet of water.

A new commercial painting outfit of the airbrush type includes a paint container that can be carried by a man like a knapsack and enables him to carry an unusually large supply of paint wherever he wishes to go.

Freight vessels with interchangeable hulls and sterns, the former carrying the cargo and the latter the propelling machinery, are a Frenchman's idea for reducing transportation costs, one stern serving for several hulls.

For automobiles that take lighting current from the magneto that supplies ignition there has been patented an automatic short circuiting device to give a car one bright headlight instead of two dim ones when running slowly.

A French inventor's non-actinic lamp for photography uses a tablet composed of platinum, lithium or strontium, asbestos, magnesia and alumina, which is heated in an alcohol

flame until it glows, when the flame is extinguished.

An inventor of a silencer for firearms has designed a silent apartment house in which the windows all ways would be closed and air for ventilation passed through spiral ducts enclosed in a chamber built of sound deadening materials.

Flowers are more fragrant when the sun is not shining on them, it is contended by a French scientist, because the oils which produce the perfume are forced out by the water pressure in the plant cells and this is diminished by sunlight.

To Clean Reflectors.

Do not try to clean the headlight reflectors with an ordinary cloth, because you are apt to scratch the highly-sensitive surface and do more harm than good. The best way to polish them is to first sponge them off lightly with a soft wet cloth, so as to remove all loose dirt. When dry take a piece of dampened chamomile and dip it in jeweller's rouge and then polish the reflector with a spiral circular motion starting at the center. You will be surprised what a difference clean reflectors will make in the light reflected upon the road.

Look at Frost Wheels.

The average car owner is quite likely in the desire to give the rear wheels all the attention they need to forget the front wheels. Now, the front wheels should be given careful inspection at least once a month, particularly those of the type fitted with ball bearings of the cup and cone type. These cones wear rapidly because they are subject to heavy stress in travel.

Squeaking Brakes.

Worn brake linings may cause the heads of the rivets holding the linings to the band to strike the drum. This brings the squeak when you apply the brakes. To correct this, remove the bands and sink the rivet heads below the linings, or, if the linings are too thin, renew them.

From Jail to Auto.

From jail to the motor car, is the title of the latest play in which Secretary of State Hays of New York has been asked to take part. It's real life too, for Hugo says he has received a letter from a prisoner in a New York penitentiary asking for a license so that he may use his machine as soon as he is released.

Don't Slouch at Wheel.

To start your machine with the ease and grace necessary to keep your motor in good shape, it is important to sit up at the wheel. Slouching brings with it, jerky starts, which mean abuse to the motor, clutch, transmission, axles and tires. Besides, are you really at ease while slouching at the wheel?

So Cyclists Say.

It is a certain fact that judicious bicycle riding is one of the best of all round exercises: it stimulates the appetite, is first aid to digestion, quickens the eye, makes the sense of hearing more keen, in fact vitalizes the entire system.

Save Blowout Shoes.

By placing a piece of inner tubing between the blowout shoe and the casing, the life of the shoe can be considerably lengthened. The rubber relieves the friction between the two fabric surfaces.

Smashed Hub Caps.

Smashed hub caps should be replaced immediately. Otherwise they permit dirt and grit to enter and wear the bearings, while grease is going out.

Moon Nearer Earth.

With the aid of the world's largest telescope recently installed at the Mount Wilson observatory, the moon has been brought nearer the earth than ever before in history.

Folding Drum.

A folding drum for orchestra musicians has been invented that is extended to full size by hinged ribs between the heads.

Mike and Ike raced up the pike. To test the grade that beckoned, Mike withdrew to fix a shoe. And Ike dropped back to "second."

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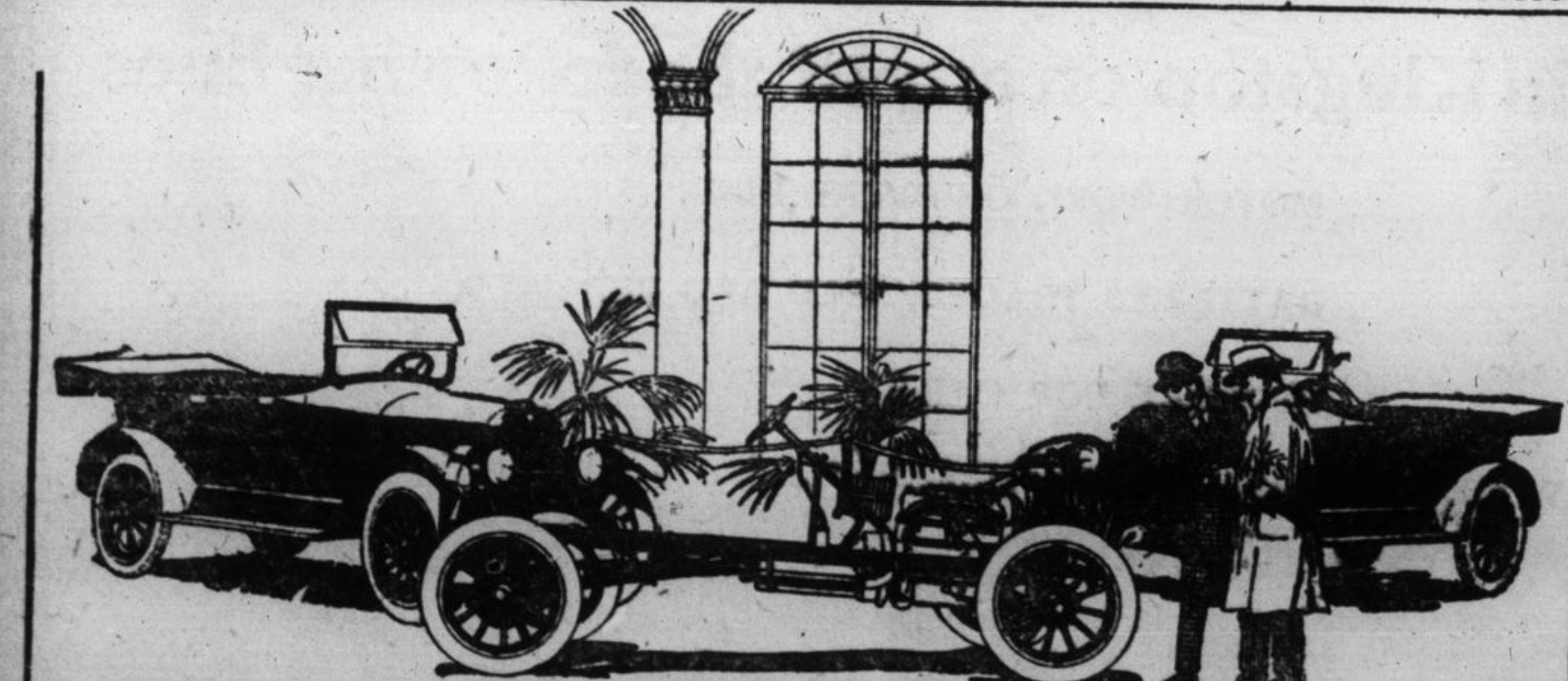
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RETARDED SPARK CAUSES OVERHEATING

Motor truck drivers should be taught that when the truck stops suddenly in the road, from no apparent cause, the first place to look for the cause of trouble is in the fuel tank. On a recent occasion of a sudden apparently causeless stoppage of a truck a conference of five passing drivers got nowhere, and finally a passing motorist made the discovery that the fuel tank was empty.

It frequently happens in making repairs and adjustments to the motor truck that a stud is found that has become frozen in place. Such a stud may be removed by screwing on two nuts and turning the lower one with a wrench. The upper nut acts as a lock and permits the lower one to pull the stud around.

It is vitally important to trim cuts as fast as they appear in the solid tire. It is not done the torn rubber or "flap" as it is called, is rapidly enlarged. To stop a cut enlarging on the edge of a tire it should be beveled off with a sharp knife.

The car owner should keep in mind that one of the most prolific causes of engine overheating is driving on a retarded spark. The cause is obvious: the explosion taking place when a maximum of the cylinder wall is uncovered instead of the minimum, as is the case when the ignition takes place at upper dead centre, the piston being at the top of its stroke.

Lined oil mixed with a small amount of graphite is recommended as a lubricant for door hinges and latches, which seldom receive attention in this way. Ordinary cylinder oil has a tendency to run, which is not desirable at this location because the clothes of passengers are likely to come in contact with it.

The addition of a little pure flake graphite to the lubricating oil is a help to motors that have seen some wear. Only pure motor graphite should be used. It forms on the metal surfaces, reducing wear and filling up scores in the cylinders.

The Bicycle and Work.

Merchants and manufacturers are now building bicycle shelters in connection with their factories and warehouses, because they realize that the men who live outside of the vicinity of their work and make daily use of bicycles do a better day's work, and are most emphatic in stating that the stimulation exercise of bicycle riding is the cause.

Men and women, boys and girls who make daily use of the bicycles, either for pleasure or work, are unimpeachable witnesses to these facts, and the idea is growing fast as over thirty thousand enthusiastic cyclists on the Island of Montreal can testify.

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Actual figures show that day and night throughout the year one automobile accident happens every minute and, strange as it may seem, 75 per cent. of these accidents happen to cars traveling less than fifteen miles an hour.

Accidents are not always due to recklessness or carelessness on the part of the driver. Any one of numerous things may happen to the most careful and cautious driver.

For instance, a blow-out (witness the recent fatal accident from this cause), that causes you to swerve into a passing car, or a slippery roadway or a brake that refuses to act at a critical moment.

You assume a responsibility from the moment you commence driving a car and it is only justice to yourself that you should be protected, and not "gamble with fate."

Liability-- Security against loss resulting from personal injury, or death caused by the ownership, maintenance or use of Automobiles.

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