

What the Experts Say

In the absence of a conventional rim expander, diagonally split rims may be spread by means of the lifting jack and two blocks of wood.

Never attempt to force the upper half of the windshield up or down by pushing on one side, especially if the shield is an old one. If the framework is at all weak, this method of handling will probably break the pane.

When lighting fuses blow out one after the other, it does not pay to keep replacing them; it is something more than coincidence. Try to find out the cause, and the first place to look is in the cut-out. If this portion of the lighting system is of the type that has points which may become stuck, it is very likely to cause continued fuse breakage.

In cars fitted with a piston-type oil pump, failure to force the oil in its proper channels may be remedied by priming the pump. This is done by disconnecting the line behind the gauge, and forcing oil from a can through the pump lead, while the engine is running very slowly. When oil spurts back through the pipe it shows that the pump is working again.

In tightening opposed nuts, such as those holding the bearing caps in

place, one nut should be drawn up a little and then the opposite one tightened a little. It is wrong to tighten one nut fully and then proceed with the other as this method tends to spring the metal and cause poor contact.

Do not condemn the spark plug unless it is at fault. To determine this first find out which cylinder is missing explosions. Short circuit each spark plug with a screw-driver. If engine slows down it is a five plug. If it does not the cylinder is not firing.

If a good spark is shown remove plug and lay on its side on cylinder, attached to the same wire. Put a new plug in place of old one. If plug shows no spark it needs cleaning or a new insulator. To determine this take it apart.

Clean off carbon with a cloth dipped in gasoline, or a brush may be used. Touch up the points of the plug with emery cloth, but do not touch emery to glazed porcelain as it scratches and makes it sputter up all the more readily. A cracked core must be replaced.

Put the parts together and adjust the gap to approximately the thickness of a very thin dime. Try in cylinder. If engine misfires the trouble may be loss of compression or faulty carburation. Do not be in a hurry to condemn a plug, because the fault is frequently elsewhere.

NEWEST NOTES OF SCIENCE

An adding machine that can handle 10 columns of figures has been constructed.

Builders in Holland have launched an electrically propelled tugboat for use in India.

An electric vacuum cleaner that can be mounted on any carpet sweeper has been invented.

Porto Rico has a species of orchid that seems to prefer to grow on telephone or telegraph wires.

Finding sleeping berths for automobiles, both upper and lower, have been patented by a Denver man.

Although Asia has many high mountain ranges it has fewer large waterfalls than any other continent.

Spain is building the fourth largest concrete dam in the world to supply hydro-electric power to Barcelona.

Attached to measuring spoons patented by a New York inventor is a pivoted scraper to level off their contents.

An up and down motion by a child mounted a new hobby horse propels it over the ground on pneumatic tired wheels.

A lamp shade for illuminating pictures that may be adjusted to vary the distribution of light is an English invention.

To replace worn heels on shoes an inventor has patented a separate heel that can be attached without the use of tools.

The Dominican republic is expected to have the largest tobacco crop in its history this year, estimated at 300,000 bales.

A baby's crib has been invented that can be attached to a bedstead and rocked by an occupant of the latter without rising.

Two German scientists have invented an electric furnace in which heat is applied to metals to be melted by a tungsten tube.

A New Jersey inventor's attachment for a gas jet that enables much cooking to be done over the flame, weighs less than a pound.

Hatpins with flexible points that can be returned into the hat after having passed through it have been invented in England.

In addition to gripping a nut with both jaws, new pliers have a piece of metal that slides up between the jaws to take a third hold.

Portugal's vineyards contain nearly 693,000,000 vines and the vine

production last year is estimated in excess of 109,000,000 gallons.

A patent has been granted for a cigarette box from which each cigarette can be drawn separately by a strip of paper that passes under it.

Swedish physicians have perfected a cellulose dressing for wounds that is made in thin sheets like tissue paper from chemically wood pulp.

A rusty grate can be cleaned with black lead, allowed to remain on the metal for a day or two to absorb the rust before the metal is polished.

One of the largest electric plants in the world is being planned to supply power for nearly all the mines around Johannesburg, South Africa.

New in the line of office conveniences is a device to be attached to a wall or desk to withdraw pens from holders without soiling the fingers.

An old proposition to lay flat steel tracks for wagons on wornout roads in England instead of rebuilding the highways again is being advanced.

Among the new automobile horns is one that is mounted directly on a car's magneto and operated by a



THURSTON, THE GREAT MAGICIAN.

Will present a new programme of weird mysteries at the Grand Opera House, Monday and Tuesday, April 1st and 2nd, with a matinee on Easter Monday.

sliding gear controlled from the driver's seat.

An Australian has invented a seed drill which sows fertilizer three or four inches below the grain to strengthen its roots in dry soils or seasons.

To keep salt dry an inventor has patented a perforated metal shell, to be filled with scraps of sponge and placed in a shaker to absorb the moisture.

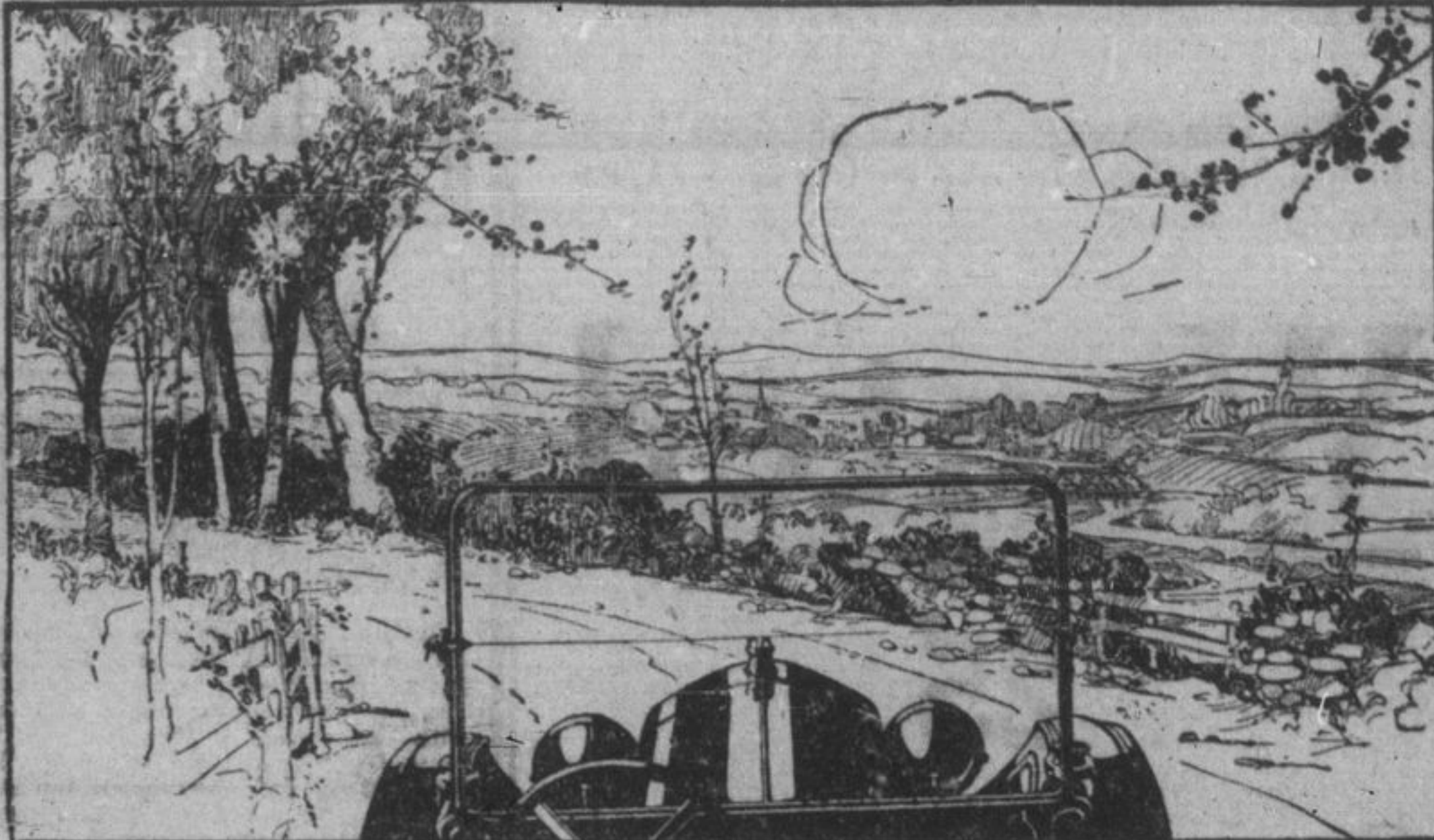
It is planned to use some of the 150,000 horsepower available for the Assuan dam in Egypt for the pro-

duction of atmospheric nitrogen by electricity.

An Indiana man is the inventor of extra rims to be bolted to the rear wheels of motor trucks to give several inches additional bearing on soft roads.

An Irish inventor has brought out a new packing material for eggs and other perishable foodstuffs that is made of the waste products from the wax mills.

Sanitary advantages are claimed for a kitchen sink that has a strainer which can be removed for cleaning



Get Behind the Wheel of a Ford and Drive

TRY it just once! Ask your friend to let you "pilot" his car on an open stretch. You'll like it, and will be surprised how easily the Ford is handled and driven.

If you have never felt the thrill of driving your own car, there is something good in store for you. It is vastly different from just riding—being a passenger. And especially so if you drive a Ford.

Young boys, girls, women and even grandfathers—thousands of them—are driving Ford cars and enjoying it. A Ford stops and starts in traffic with exceptional ease and smoothness, while on country roads and hills its strength and power show to advantage.

Buy a Ford and you will want to be behind "the wheel" constantly



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JEWISH BATTALION SOON TO FIGHT WITH ALLIES IN PALESTINE



JEWISH RECRUITS FOR ROYAL AVIA TION CORPS ON WAY TO THE FRONT

A Jewish battalion of 200 men has left New York city, Philadelphia and Cleveland to enter the British service in Palestine. The Jewish unit has been recruited through the activity of Zionist organizations throughout America. The unit formed in front of the British Recruiting Mission and then marched down the main thoroughfares of New York city. They were met by a large crowd of Jews who gathered to witness the ceremony of blessing the flag by Rabbi M. S. Margolies. At the close of the ceremony there was a general leave taking. The unit was headed by its own band, and there were several British officers in line.

or replaced by a plug to retain water in the sink.

With a three-wheeled car that he has invented an Englishman has combined the stability of an automobile with the economy and lightness of the motorcycle.

The world's record for depth long held by a 7,349-foot bore in Silesia, was exceeded in January by a gas well in West Virginia that still is going deeper.

From 3,198,407 acres devoted to grape culture in Spain last year 4,069,314 metric tons of fruit were harvested, of which 3,856,691 tons were made into wine.

Supplied with current from batteries worn on a belt an electric light to be mounted on the surgeon's or dentist's forehead to aid him in his work has been patented.

Canada's production of sugar beets last year has been officially estimated at 117,600 tons from 14,000 acres, compared with 71,000 tons from 15,990 acres in 1916.

The end of a new needle is notched and split as far as the eye, permitting it to be threaded by drawing a thread through the split, which

springs together to retain it.

The government of Columbia has planned bacteriological laboratories for the coast and interior cattle raising districts to find remedies for regional diseases of stock.

A metal cover that a Chicago man has invented to make a heating radiator also serve as a window seat is featured by a compartment for water to moisten the air in a room.

The stream that has been supplying the ancient city of Damascus with water for 46 centuries has been harnessed to provide electricity to light the city and operate a railway.

Farm Tractor is Necessity of War. Eighteen million horses on 6,000,000 American farms ate enough grain in the past year to feed 40,000,000 people, or about one-third of the population of the United States.

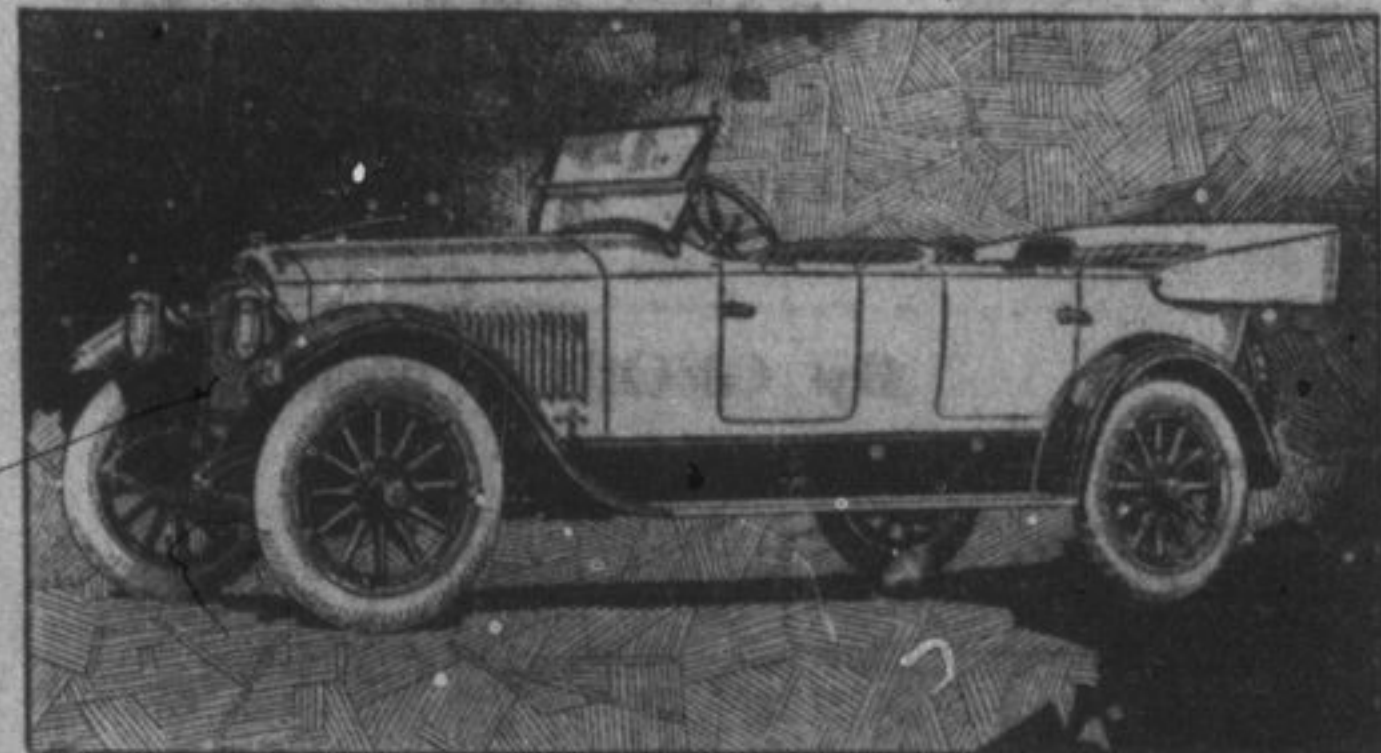
These significant figures from the department of agriculture at Washington assume vast importance, in the light of the government's propaganda to increase the production of food during the war. However, due to many causes,

chief among them the tendency of the up to date farmer to motorize his farm, horses are becoming fewer and fewer every day of the year, and this seems a blessing. Every horse that gives way to the modern mechanical "beast of burden," the farm tractor, is helping to defeat the enemy by conserving his daily ration of oats, barn and corn.

Without food and without the means of producing food, we cannot win the war. Hence, the farm tractor becomes a necessity of war. It is the farmer's machine gun, long range cannon and airplane. It is his means of fighting. It does the work of several teams and men, works 24 hours a day and every season of the year; never gets tired and does not eat food that should go to the armies in France.

The farm tractor, being a necessity of war, should receive the same consideration that is given to guns, munitions and liberty motors. Steel must be had for the manufacture of tractors, and unless priority is given, the makers will be unable to produce in quantities sufficient to help the farmer.

New Series Big Six



65 H.P. Tires 33 x 4 1/2. Genuine hand buffed leather, French plaited. Top, one man cover type.

Accessories



Service

—that teaches the care of your Car

It is a matter of common knowledge that less "trouble" are experienced with Studebaker cars than any other in its class.

This is not only due to the excellent quality of the materials that are put into every Studebaker car but also to the thoroughness of Studebaker DEFINITE Service and its success in educating owners to take care of their cars themselves, thus insuring 100% operating efficiency all the year round.

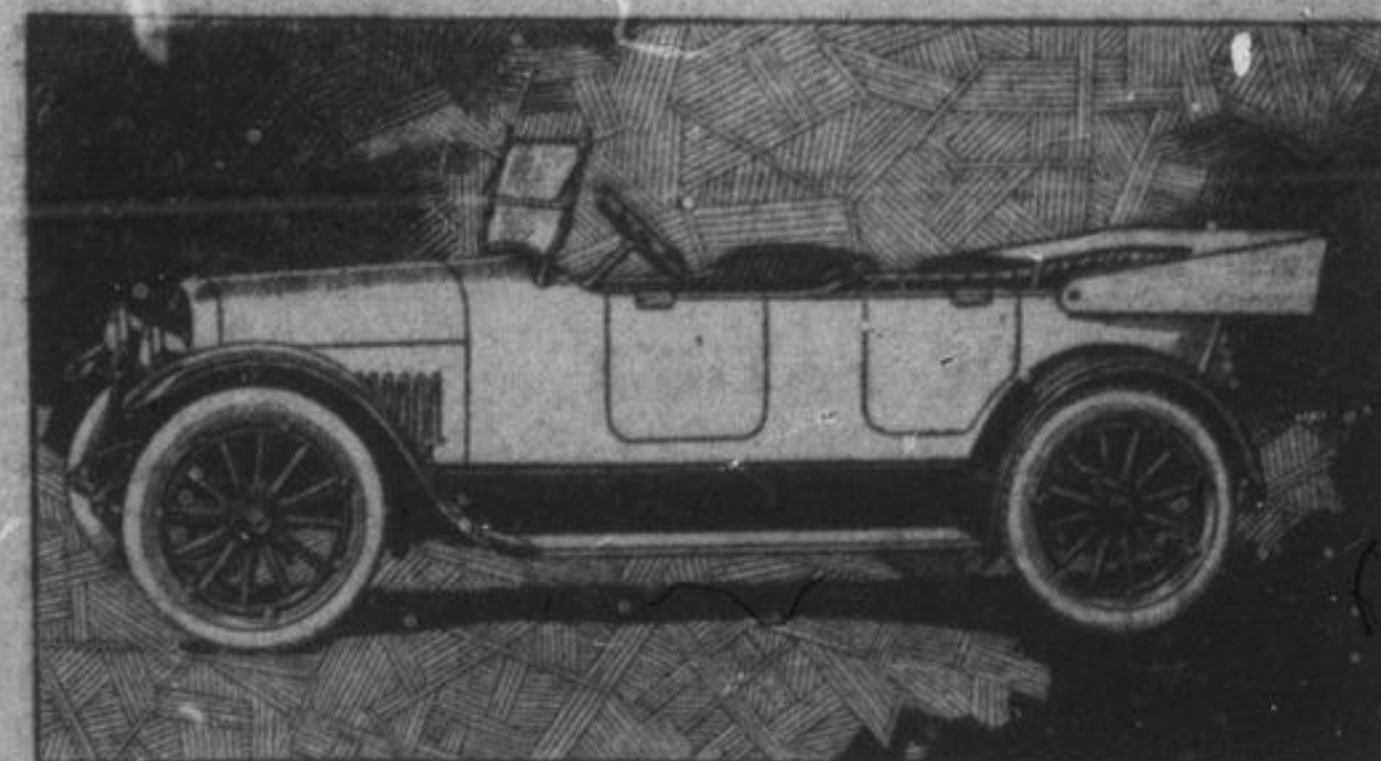
Studebaker DEFINITE Service comprehends more than a mere invitation to "drop in if anything happens." Its purpose is to forestall all possibility of "trouble" by the regular and systematic inspection of your car—which is given for a period of six months without a dollars charge because Studebaker considers this just as important a part of your purchase as the cushions or tires.

Nothing would please us better than to have you come in and let us tell you more about Studebaker DEFINITE Service.

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