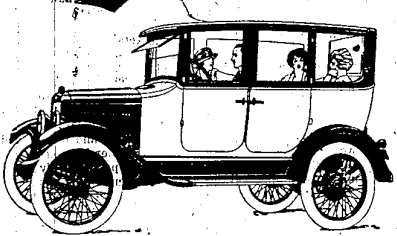


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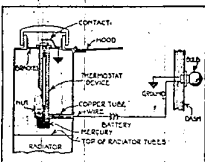
WARNING TO DRIVER BY FLASH OF LIGHT

Homemade and Effective Hot Motor Alarm for Autos.

Any Man With a Little Mechanical Ability Can Construct Device—Main Tube of Thermostat Is Made of Bakelite.

Below is an illustration that shows a homemade and very effective hot motor alarm. Any car owner with a little mechanical ability can easily build one. The sketch shows a section of the radiator at the top of the water chamber. The main tube of the thermostat device is made of bakelite or one of the impregnated bakelite fibers that is water and steam proof. The top of this tube is threaded into a bracket which is in turn soldered into the neck of the radiator. The lower end of the tube is also threaded into the mercury chamber which is made of fiber. This chamber is locked and made leak-proof with a nut. At the upper end of the tube in the contact which is provided with an extension contact of brass and which is also led out through a brass ribbon and soldered to the supporting bracket, thus making a ground connection on the car.

After the device is assembled the copper tube is soldered in place and a wire led out through it to a small lamp on the dash. The circuit is



When the Engine Becomes Overheated, the Driver is Warned by the Flash of the Dashboard Lamp.

made through the battery circuit on the car as shown. The mercury chamber is threaded into the thermostat tube so that the device can be adjusted.

This is accomplished by submerging it in boiling water and then setting it just a trifle short of making the circuit. In other words, when the water in the radiator reaches the boiling temperature, the motor is dangerously overheated and needs attention. At that point the mercury is so expanded that it rises in the tube and completes the circuit, thus lighting the lamp.—Popular Science Monthly.

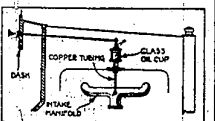
SURE-ACTING PRIMER SAVES AUTO BATTERY

Device Causes Engine to Start Firing at Once.

Means Found for Injecting Into Cylinder Sufficient Amount of Gasoline, to Vaporize and Mix With Air.

Many automobiles require a sure-acting priming device to cause the engine to start firing at once, instead of compelling the starting motor to whirl for long periods, which puts a heavy drain on the storage battery. Therefore, some means must be found of injecting into the cylinders a sufficient amount of gasoline so that enough will vaporize and mix with the air in the combustion chamber to form an ignitable mixture. The best of these is one that can be operated from the driver's seat.

Obtain an ordinary eight-feed oil cup, as shown in its illustration. Attach it to a suitable part of the car, such as the dash, or mount it on the engine block, above the carburetor. By the use of one-eighth-inch copper pipe, like that for the gasoline line, the cup should be connected with the intake manifold directly above the vertical tube to the carburetor. Then, by the adjustment of the feed-valve on the cup, the correct amount of gasoline is admitted to the manifold in the right place. In this way all cylinders will receive the same mixture, and of course will develop maximum power. After the engine has started well, the feed-valve cup can be closed. This method is far more reliable than priming.



Save your store's battery by equipping your car with this simple sure-acting primer.

Injects on cylinders, for, when the engine is primed through them, a greater quantity is injected than is needed for one explosion, and for this reason there is a certain amount of vapor formed, regardless of low temperature, which then finds its way past the piston-rings into the crankcase and mixes with the oil.—R. L. Prindle, in Popular Science Monthly.

Life as I See It.
It's tough to want to soar and have no wings.—Louisville Courier-Journal.

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Attention Ford Owners

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First "Weather Man"

An Englishman, Francis Galton, was the first real weather man. Galton was a cousin of Charles Darwin. He was born in England in 1824. Whether he was really able to forecast rain and sunshine with more accuracy than his successors is an open question; but it is certain that he was the first to attempt the charting, on a large scale, of the progress of the elements of weather. The methods devised by him, in modified form, are used to this day.

Differences.

The difference between a man and a child is that the man weighs more and isn't as happy.—Archibald Globe.

Plant Has Peculiar Property. Pitcher plants catch in their "pitchers" not only insects and spiders in immense numbers, but also, occasionally mollusks and crustaceans and even tree frogs and lizards. Some species of insects are adapted for living with impunity in the pitchers, where they feed on the remains of the captured insects.

Larva Resembles Spittle. A frothy substance found on plants, variously known as "frog spit," "cuckoo spit" and "toad spit," is exuded by the larva of the spittle insect, which lives under the mass of "spit." The latter consists of juice sucked from the plants.

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