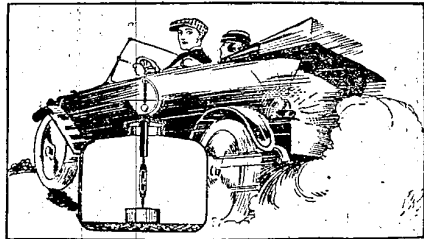


AUTOMOTIVE SECTION

DEVICE WARNS DRIVER THAT GAS SUPPLY NEEDS QUICK ATTENTION



One of the most uncomfortable things in the world is suddenly to discover, when one is motoring far from a supply station, that the gasoline tank is empty or nearly so. Every automobile driver meets with an adventure of this sort at one time or another.

There ought surely to be some contrivance that would give timely advance warning to the motorist of such a happening.

A device newly patented by William Grab of Waterville, O., performs this useful duty admirably. It is very simple, consisting of a float that hangs on the end of a vertical rod which passes upward through the cap of the gasoline tank and with its upper end holds suspended a ball of metal.

As the surface level of the fluid in the tank is lowered the float, of course, descends correspondingly. The rod attached to the float descends with the

float (through a tube), until the metal ball dangling from the upper end of the rod is low enough to hang within a cup formed by an inverted bell which surmounts the tank cap.

The upper end of the rod is bent in a curve, so that the metal ball attached to its extremity by a short chain may dangle directly above the middle of the cup-shaped bell.

The movement of the automobile keeps the metal ball constantly swinging to and fro. But it cannot strike the sides of the bell until the lowering of the float in the tank has caused it to descend to a certain point, which may be determined beforehand by adjustment of the float.

Therefore, when the driver hears the bell ringing it warns him that he has got only just so much gasoline left. And the bell, having started, keeps on ringing and demanding attention to the emergency.

FIX CARBURETOR TO AVOID LEAKS

Difficulties Greater in Cases Where Engines Have Been in Use for Long Time.

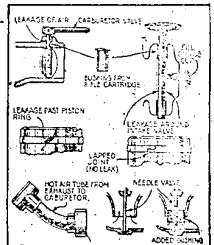
CAUSES FOR UNEVEN ACTION

To Remedy Trouble Opening Should Be Narrowed to Give Stream of Entering Air Greater Velocity in Chamber.

Much has been written about the difficulties of carburetion under normal conditions, when the engines under consideration are in good shape; but the difficulties are even greater in the case of engines that have been used for a long time.

Some of the common complaints are of the so-called "golfing engine," inability to throttle to a low speed and an unaccountable misfiring or stalling.

Air-leaks diluting the gasoline vapors are the foremost causes of uneven action. Seldom does the air leak through a loose gasket, but the hole through which the stem of the throttle



Air-Leaks in the Carburetor and the Intake Valves Make the Engine Miss Fire.

valve protrudes, due to wear, provides an air leak that should be remedied. Take the cover off, look for the hole with the shell of a rifle cartridge or similar piece of tubing to keep the air from penetrating at this point. Now remove the intake valves, discard the exhaust valves and use the intake valves in their place. Purchase new intake valves and if these do not fit the holes snugly, ream the extreme ends of the valve guide and place a copper or brass bushing in each end or entirely through, if desired.

Fit a small grease-cup and use a graphite grease, and the leakage of air at this place will be overcome. Remove the piston-rings and fit new ones with tapered ends that will effectively stop all leaks at this place.

In some carburetors a removable tube is used which can be taken out and brushed or given a heavy coating of solder to close the opening. The object is to narrow the opening and to give to the stream of entering air greater velocity. If the carburetor has no preheater, one should be added.

With the carburetor removed, push the butterfly throttle valve to its closed position and note the small opening through which the engine gets its fuel, which will give you some idea of the importance of closing the small openings that give a combined area sufficient to dilute the mixture until it will not burn, which accounts for the skipping of the engine in many cases.—George Luers in Popular Science Monthly.

TIRE MADE FROM WHALE SKIN

First Soaked in Tanning Mixture Until Perfectly Soft and Then Plunged into Mold.

At the automobile show in Seattle, Wash., a tire was exhibited made from the hide of a Pacific coast whale. The whale skin, thick and rubbery, was soaked in the tanning mixture until perfectly soft and then plunged into the mold. At the tannery it was said that such tires can be manufactured at one-fourth the cost of those of rubber. Hides from shark, wolf fish and whales can be used.

AUTOMOBILE PAINTS

Some speed wrenches have sockets so deep that a small screw snags all the way into the socket.

For the man who drives a big, heavy car the possibilities of truck pneumatic tires are worth consideration.

In Turkey there are American, English, Italian and German motor vehicles in use in Constantinople.

Of the 315 establishments for the production of motor vehicles in this country 98 are located in Michigan.

Do not get within range of the exhaust pipe of a car while the engine is running within a small closed garage.

Fordson Farm Tractor

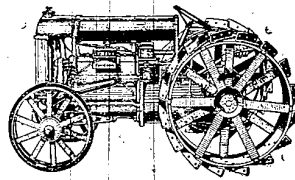
Here's the one Farm Tractor that has real practical service behind it and a tractor without prompt efficient service cannot deliver its full value to the owner.

The Fordson Tractor will furnish all the power the farmer wants in farming and also all the power he may want for cutting ensilage and wood, for milking, electric lighting, household conveniences, etc.

It is the marvel money-maker for the farmer.

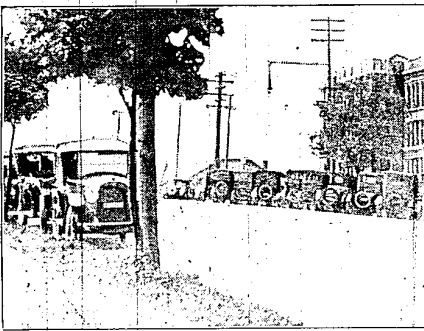
Let us tell you about the Fordson tractor and the service we offer with it.

Made by Henry Ford & Son and sold by



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FORD SALES & SERVICE
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ANYTHING BUT HARD TIMES SEEN



Most of the farmers who say the country is going to the "dog work" please study this picture. The building in the picture is one of the high schools in Cincinnati. The automobiles belong to the students in the school. More than two hundred cars from the lowly little car to the big fellows are parked in front of this school. Each one of these cars belongs to a particular student in the school.

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But it is Not So.

Jud Tunkins says life would be perfectly pleasant if it was as easy for human nature to forget resentments as it is to forget obligations.

Giant Insect.

The largest insect known, but now extinct was a dragon fly, which had a wing-spread measuring two feet.

Or words to that effect



IT BEATS the band.
THE WAY this thing.
KEEPS POPPING UP.
THE OTHER night
I BROKE all rules.
AND READ a high-brow book.
AND HERE'S a hot one.
THAT IT handed me.
"MANY OF us find.
THAT TASTE affords.
ONE OF the fairly.
DEPENDABLE SATISFACTIONS.
OF EVERYDAY living.
AND IT seems.
UPON LONG reflection.
THAT SATISFACTION.
COMES CLOSE to being.
THE LONG sought.
"HIGHEST GOOD."
OF COURSE that isn't.
WRITTEN WITH the ease.
AND POLISH to which.

WE ARE accustomed.
BUT IT'S a mouthful.
AS YOU'LL agree if you.
JUST PUT IT into good.
UNITED STATES, like this.
"SON, YOU'LL be running.
ON FOUR flat tires.
IF YOU don't hurry.
AND WRAP yourself around.
THE ONLY cigarette.
THAT SATISFIES."

"THEY Satisfy"—nothing else so well describes Chesterfields' mildness, their mellowness, their delicacy of aroma and smooth, even "body." It took the finest varieties of Turkish and Domestic tobaccos to do it—and the highest order of skill in blending them. Yes, the Chesterfield blend is a secret. It can't be copied.

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