



WILLARD SERVICE STATION

This is the time of the year that your BATTERY needs a lot of attention. Do not hesitate to stop at the Willard Station and we will gladly look your outfit over without charge, also starting and lighting systems.

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I. LESSES

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Cylinders Reground



Worn or Scored Cylinders Repaired

Cylinders ground and fitted with oversize Pistons and Rings. Piston Pins if necessary.

Prices on Application.

Automotive Grinders

R. M. CAMPBELL, Corner of Queen and Wellington Streets.

Newest Notes Of Science

An electrically driven machine has been invented for the quick removal of putty from windows.

Tests are being conducted in England of what is claimed to be a noiseless and fireproof aeroplane engine.

The world's annual wheat production is evenly divided between the Northern and Southern hemispheres.

A wire device has been intended to be hung over a heating register to lessen its blasts of hot air and filter dust from them.

So successful have been the experiments of a Vienna botanist in the utilization of nettle fibre that he predicts that Austria can become independent of foreign cotton.

For persons using pencils almost continuously a clip has been invented to hold one on the back of the left hand momentarily when the right hand is occupied for other work.

Horses imported into Argentina are sought to avoid a poisonous weed that the native animals shun naturally by forcing them to inhale smoke from burning piles of the weed.

For reviving sod by introducing air and moisture an inventor has patented a spike roller, the penetration of the spikes being regulated by small wheels that help support it.

In a German steelworks a hydraulic press that can exert a pressure of 11,000 tons has replaced a steam hammer that shook the earth for a long distance every time it was used.

The area of lands in the United States which could be cultivated could the water that covers them be removed more than equals the combined areas of Great Britain and Ireland.

A European violin instructor has invented a diagram printed on paper to be pasted on the neck of an instrument to show a pupil where to place his fingers to produce desired notes.

The handle of a new soldering iron is hollow and can be filled with pellets of solder, one of which is released to roll down into the heated point as a releasing spring is pressed.

A Swiss inventor has brought out a device intended to keep the pressure on electric lights constant and prevent lights becoming dim when additional loads are switched into circuits.

Using the principle of reinforced

concrete construction in the making of statuary models, a New York sculptress builds them of wire netting and coats them with plaster with a brush.

Of French invention is a boat propeller with the blades extending far forward and back of the hub and so shaped that the water is not churned and no vacuum is caused around the hub.

To enable a man to hear a telephone in a noisy room and at the same time have his hands free for use a sound amplifier terminating in a tube to be inserted in one ear has been invented.

The world's greatest wireless station has been built in Italy, powerful enough to communicate with North and South America when similar stations are erected on this side of the Atlantic.

To insure the owner of a private shaving cup kept in a barber shop that he is its only user there has been invented a paper cap to cover it, which cannot be removed without breaking a seal.

An apple tree with which a Missouri nursery firm is experimenting is considered valuable enough to be enclosed in a wire cage provided with a burglar alarm.

A mineral recently discovered in Siberia resembles dark brown hard rubber, when burned has a strong flame and when placed in water becomes a paraffine-like mass.

The ratchet mounting of the head of a new monkey wrench gives it eight different working angles for use where obstructions would interfere with a straight wrench.

Incubation tree trunks, fitted with nesting places to attract birds, are made by a Pennsylvanian from cement, bark and other suitable materials.

The Swedish state railways are equipping their rolling stock with air brakes invented in Germany, but manufactured in Sweden after depending upon hand braking for years.

An envelope moistener patented by a Seattle inventor consists of a piece of sponge inserted in a spiral metal coil that is held by two rings from the back of the users fingers.

An English society that aims to develop the senses of touch and observation requires blindfolded students to examine with one hand and make drawings of them with the other.

the wiring system and reduces repair work.

With all motor controls on the steering wheel, the dash is left open for storing curtains, tools and other material.

Rock Front of Car To Drain Water System

When draining the water system of the car it is well to make certain that no water remains in the pipes and jackets by rocking the front of the car. This will throw the water out of bends and pockets. The majority of thermo-siphon cooling systems drain off easily enough, but in the pump system it is necessary to use care. It is a good plan in draining off the water to let it run into some receptacle, a large can or pail, so that it can be used again. The reason is that in all water there is a certain proportion of foreign matter that forms deposits on the cylinder jackets and radiator. In the water already used this deposit may be supposed already to have been made, whereas with fresh water a new deposit will be precipitated. By using the same water over and over again this furring up of the water spaces may be minimized.

Cats, unlike politicians, give voice to the most decided utterances while on the fence. Let's wife evidently passed some other woman and looked back to see what she had on.

A VALUABLE HINT.
Information of Importance to Auto Drivers.

In cases of a broken spring it is sometimes possible to make a temporary repair by means of a heavy block of wood. Lash it securely and drive carefully.

Although the magneto needs very little care, it must have some attention in order to carry on its work. Place one or two drops of oil in each oil hole every 1,000 miles, clean and reset interrupter points every month, wipe off all dust from the distributor, both inside and outside, and you are practically immune from trouble. Use none but the finest sandpaper in cleaning the interrupter points.

Never put lubricant of any kind on the Bendix drive pinion of your self-starter. If oil is put on it the dust will collect and gum it up so that it will not work. In case it does stick because of dirt, squirt kerosene inside the pinion and work it back and forth on the thread, wiping off the dirt as you do so.

Hold the hand over the breather tube occasionally with the engine running. If gas is escaping from the crank case it means that the engine is losing power. The force of the explosion, instead of pushing down the piston, is leaking into the crank case. This may be due to scored cylinders, defective piston rings, or, in rare cases, a hole in the head of the piston. The pistons or cylinders must be removed to correct this.

In removing a detachable rim it is a good idea to loosen the bolts before jacking up the wheel. The weight of the car will break any rust that would tend to hold the rim and make it hard to remove by hand. If the rims are new and have had no chance to rust, this advice does not apply.

Steering Column For Dash Gauges

In place of the instruments distributed along the dash comes now a compact arrangement of these controls at the head of the steering column.

Automotive engineers have long been working on some way by which all switches, meters and gauges spread along the dash may be directly before the driver and always within his vision. The motor control just put out by a Chicago firm fulfills this demand.

The instruments are placed within a circle at the centre of the steering wheel and all wires, shafts and tubes are run through the steering column. The result is a far simpler motor control system.

The diameter of the steering column is not increased, although through it run the ammeter horn and lighting wires oil tube, speedometer shaft, choke wire, water temperature tube and spark and throttle rods.

All ignition wires are brought together from their sources to the bottom of the column, where they are connected to the fuse box of the motor control system. This simplifies

POPULAR FLIVVER

Smallest Car Does The Biggest Passenger Work

More persons travel in the family flivver than other sorts of cars, said a traffic policeman at Atlantic and Flatbush avenues, one of the most travelled corners of Brooklyn, N.Y.

"Naturally more flivvers go by," said the policeman, "because there are more flivvers. Of course, there are not more flivvers than all other makes combined, but the per capita of passengers for the small car is far ahead of all others. The big limousine goes gliding almost noiselessly by. At the wheel is the unformed chauffeur, while in the rear seats may be a solitary man, or perhaps two women, sitting languidly in the cushions and looking bored.

"Then along comes the flivver. In it are pa and ma and the kids, Aunt Liza, a couple of country cousins, Mrs. Jane Roe, who lives next door and has accepted the invitation to go along and get a breath of fresh air on the drive down to the beach. Yes, the flivver has a purpose in life and it serves it, too."

Some doctors are more dangerous than the disease.

When Your Appetite Fails This is What You Need

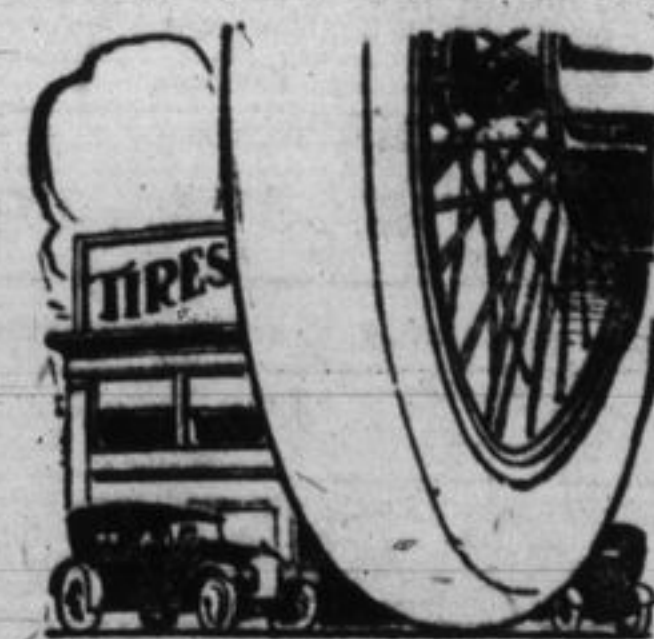
When the very thought of eating makes you feel dizzy, when you're run down, stomach in bad shape - you need a real housecleaning with Dr. Hamilton's Pills. They tone up the liver, assist the stomach and improve digestion. The taste becomes aware of new flavors in food you never noticed before. You'll look and feel a whole lot better after using Dr. Hamilton's Pills. Many folks use this fine old remedy and nothing else, and keep in the pink of condition all the time. 25c at all dealers, or The Catarrochone Co., Montreal.

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Burke Electric Company

74 PRINCESS STREET - PHONE 428.

Combined with salt and pepper shakers is a sanitary holder for tooth-picks, which releases one when a lever is pressed. For the last score of years the population of Holland has been increasing between 1-2 and 2 per cent, annually.



Quality maintains economy. No matter how much you pay "per gallon" for other lubricating oils, you get more lubrication "per dollar" when you buy Imperial Polarine Motor Oils.

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Correct lubrication with Imperial Polarine Motor Oils pays because it saves on every item of motor expense. It pays, too, on the basis of uninterrupted service from your car over a longer period of usefulness.

Always make sure you get the grade of Imperial Polarine Oil recommended on our Chart for your type of motor. See Chart at your dealer's, or write to 56 Church Street, Toronto, for booklet, "Automotive Lubrication."

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