

YOU AUTOIST— What Will You Do?

January 1st, 1920, a new law goes into effect requiring every garage owner to keep a record of the license and engine number, name and address of the owner and person delivering or taking a car for the purpose of repairs, selling, rental, livery or storage. The penalty for failure to keep this record is not less than \$100 nor more than \$500.

You can save yourself and garagemen time and trouble by showing the identification card which is furnished FREE with our guarantee title policy. This card contains all the necessary information for the garage man. It is evidence that you are the owner of the car and will be so recognized by every garage man.

A policy will reduce your theft insurance. It will also help trace your car if stolen.

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Send us your name and address now. We will mail you an application and you will be prepared.

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EAGLETS

W. F. Cummings, the well known engineer and contractor, has made a fine record. His work is praised all over the country.

Sanitary Trustee William J. Healy is the father of the Orleans street bridge—the greatest improvement ever made by the city of Chicago on the Chicago river. Mr. Healy, while Alderman from the Eighteenth ward, fought week in and week out until he secured the passage of an ordinance and appropriation for this much needed structure. When completed it will be one of the greatest bascule bridges in the United States.

The Joseph Triner Company has done much for the health of the people. Its products are praised by all who have used them.

C. A. Bickett, the well known and highly respected president of the Bickett Coal and Coke Company, although still a young man, has led a very active life and has been a potent figure in the business world for many years. Whether as president of the Chicago Bearing Metal Company, the Bickett Coal and Coke Company, or as a director of the Fort Dearborn National Bank, he has won the high regard of the business public.

Patrick A. Nash is making a great record on the Board of Review.

Ben J. Short, the popular lawyer, would make a great judge.

Francis J. Houllhan, the well known attorney, is frequently being mentioned by his big army of friends and admirers for a seat on the bench. Mr. Houllhan is one of Chicago's ablest and most successful lawyers and would make splendid judge.

County Recorder Joseph F. Haas is making a fine public record. The people are satisfied with his official acts.

Matt Aller would make a good City Treasurer. He is a sterling Democrat and has worked hard to put many good men into public office.

Albert J. Hopkins, who made one of the best United States senators Illinois ever had, would make a great governor.

Repeat the rotten Civil Service laws and give the soldier boys jobs.

The McAvoy Company is manufacturing a temperance drink that bids fair to become very popular. It is called "Alpha" and its strengthening and invigorating qualities are much praised. The McAvoy company is also producing de-alcoholized Malt Marrow, which is universally popular.

Charles H. Lamson is one of Chicago's greatest paving experts.

Judge Frank Johnston, Jr., is making a fine record on the Circuit Court bench.

George L. Schein, the well known lawyer, who numbers his friends by the thousand, would make a fine judge. Mr. Schein has no ambition in this direction, but his ability, fairness and legal experience will fit him for judicial honors.

John B. Knagst of 72 West Washington street is one of the leaders in the real estate world.

Who gets the benefit of the Public Service Departments—Utility extractions?

Edward W. Everett, the well known lawyer, is frequently talked of for congress by his many political friends. He is said to have no ambition in this direction, but his popularity would cause his election to almost any office he was nominated for.

The famous Terrace Garden is now one of Chicago's distinct features. A trip to the Morrison Hotel where the beautiful restaurant is located always means a return visit.

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AUTO NEWS

MOST IMPORTANT NEED FOR MOTOR TRUCK



Grippers Attached to Truck Gathering Potatoes in Field to Full Truck Capacity.

Comparatively few farmers could afford to purchase a motortruck just for hauling to and from the farm. Many truck manufacturers and salesmen apparently have the idea that for hauling to and from the farm is where the greatest need for the truck comes; this is simply a lack of conception of the farmer's hauling requirements.

The most important need for the truck is on the farm itself where its economy and convenience will be most felt. On most farms there are ten cases where the truck is needed for hauling about the farm to one for hauling to or from the farm. The man who now owns a tractor and motorcar should consider the possibilities of the truck as a means of still further reducing the horse and man labor requirement in his business.—Power Farming.

ELECTRIC CAR IS ADAPTED TO CITY

Periodic Recharging of Batteries Makes It Impossible to Go Long Distances.

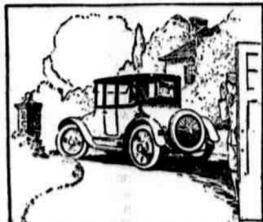
OUTLYING STATIONS SCARCE

Greater Mileage Obtained From Battery Freshly Charged—Testing With Piece of Metal Common Fault—Use Voltmeter.

The electric vehicle, whether truck or pleasure, is of necessity a city machine. The periodic recharging of the storage batteries makes it impossible for the car to travel very great distances from its base of supply, for the charging stations in outlying districts are few and far between.

The construction of a battery is comparatively simple. It consists of a positive plate (of a reddish brown color) and a negative plate (of a grayish color), separated by a ribbed wood or hard rubber separator. The framework of a plate, which, in battery technique is called a grid, consists of lead, and into this the active material is pressed. The active material is made up of red lead mixed with proper chemicals for the positive plate, and pure lead of a spongy character for the negative.

Arrangement of Plates.
A number of these plates, sufficient to give the desired amperage, are connected to their respective terminals



The Electric Car is Only as Good as Its Battery; Take Care of It.

and put into a container or jar of hard rubber, after which dilute sulphuric acid, and distilled water is added which forms the electrolyte. The positive plate has a negative plate placed on either side of it.

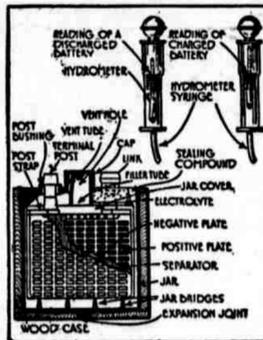
The 110-ampere-hour cells, so much used on business cars, are connected in series in batteries of 40 to 45 cells to secure the full working capacity. A simple explanation of a battery, when charging or discharging, is that the positive plate expels or breathes out the electrolyte on charging and soaks up or inhales it on discharging. This also explains why a battery will give greater mileage on a fresh charge, losing it when the car is left in the garage for any length of time.

The best way to ascertain the battery's condition is by the use of a hydrometer syringe. A fully charged cell will read about 1.275 to 1.300 points and a discharged cell around 1.160.

Common Testing Fault.
A common fault is to test a battery

with a piece of metal, such as a wire, screwdriver, etc., getting a spark by a direct short circuit. Don't do this, for it causes the plates to buckle and crack. A voltmeter is the only instrument that can safely be used, other than a hydrometer. A cell will read about 2.2 volts on a voltmeter.

When charging a battery the electrolyte will heat up to a degree depending upon the rate of charging.



The Storage Battery is Supposedly a Complicated Contrivance, but it's Very Simple to Understand.

This causes evaporation, and the electrolyte must be replenished with distilled water to its accustomed level.

All wiring on the car should be periodically inspected for damaged insulation, especially if acid has been spilled upon it by any mishap, for the acid eats through the wire insulation in a very short time. Bear in mind that the electrical power in a battery is limited, and everything done to conserve it will mean a saving of expense and labor. All movable contacts should be cleaned frequently, for dirt, grease, and foreign substances prevent the controller working properly and prevent good contact being made, which wastes current. The gearing and wheels should be looked over and greased about once a year.

Causes of Trouble.
Dragging brakes, poor contact, under-inflated tires, also cause a surprising amount of trouble.

Be sure to keep the battery solution above the plates. Do not let the temperature exceed 100 degrees Fahrenheit when charging. Do not let the battery stand idle when discharged. Keep the battery and all its connections clean. Follow the manufacturer's instructions when charging.

Use the hydrometer to ascertain the density of the solution. Avoid excessive use of current.—H. Worthman, Jr., in Popular Science Monthly.

AUTOMOBILE NEWS

Keep off car tracks and out of ruts.

The motortruck on the farm is not coming. It's here.

Dim your lights when approaching another auto on the road.

Do not allow your storage battery to become ruined through neglect.

Cultivate the habit of coasting around corners or going into second speed.

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