The Automobile World

Electricity's Important Part In Operation of Automobile

plays no small part in the successful is well known, and so is the action which operation in the building or was disconnected from the carand satisfactory operation of the conditions quite well known.

in the cylinder and makes the engine though its exact nature is not the assembling building where the operate; it lights the car, starts the known. For the sake of conveni- light, economical model 75-B is put engine, and operates the horn. There ence in dealing with electricity we together and tested. But there are are cars in which it heats the fuel, can think of it as a fluid such as also many who stop for a long time others in which it shifts the gear, water, but it must be remembered on the export shipping dock and and in some still newer designs, even at all times that this similarity has watch the crew of carpenters encase replaces clutch and gear-set in the to do with the action only and Overland and Willys-Knight care for transmission of the power of the does not necessarily mean that the foreign shipment engine to the rear wheels.

not known, and no attempt will be damental basis of the many applica- it will be ploughing through the sand made to give any explanation as to tions of electricity to the motor car, and bush of the Antipodes. Here is what it may be. You can, for con- and, in order to understand, thor- a car whose destination is Calcutta, venience, think of electricity as be- oughly the principles, operation and or, perhaps, Karachi or Bombay-all ing the name given to that something maintenance of these applications, in far-away India, Yokohama in which produces certain results which it is essential that we have a quite Japan, Aden in Arabia, Durban in we call electrical, such as lightning, complete knowledge of the electrical South America, Shanghai in China, that are formed when a trolley wheel | circuit and its more common propor- | Rio Janeiro in Brazil, Buenos Aires breaks contact with the trolley wire, ties and characteristics. the sparks formed in stroking the The electrical circuit is the path in in Brazil-it is from this dock that

eat's back, etc. without any means of support, we the path in which a river flows. is due to the attraction of the cuit and the ordinary circuit

as found on the modern motor car, under certain conditions, however, through the automobile plant to state Motor Car Company. The main tank

of comfort and luxury it is possible tricity under definite conditions, it the gigantic toggle press that presses for the manufacturer to provide. is possible to make practical use of 2,000 side rails from cold steel every It is responsible for the spark that it in operating the lamps, starting eight hours; others marvel at the ignites the mixture of gas and air motors, etc., on the motor car, even methodical efficiency that prevails in

two are identical. The exact nature of electricity is The electrical circuit is the fun- Australia." Soon the car inside

are sure to fall to the ground or There is one great difference, sidewalk. The reason of our falling however, between the electrical cirearth on our bodies, which is called which the water flows, and that gravity. The exact nature of this that the electrical circuit is always will soon be the bottom of a packattraction is not known any more closed on itself, while the water cir- ing box. than the exact nature of electricity cuit is not necessarily always closed.

Motor Construction, Expert Claims.

Lessons derived from automobile in soft grey peau de peche that is racing are bound to prove valuable to worthy of description. It is in a full manufacturers who need them, acragian model, with corded drop cording to J. Edward Schipper, who plishing feats fully as notable as sleeves which are finished with deep writes on the subject in The Auto-

cloth, and when it is turned up it ed in racing cars that it is very turn, a 75B averaged 22 miles per buttons with white pearl buttons. doubtful whether the questions of When it is down it lays first on the oiling the ordinary passenger car and ditions. In spite of the poor highshoulders. The coat is lined with soft | the racing car are at all parallel. On | ways the little car was pushed to 45 violet silk and is buttoned with large the other hand, where the touring and 50 miles an hour at times. At motor is operated at high speeds the the end of the trial it seemed none question of proper oil feed is quite the worse for the run.

> Of late there has been quite a reverse in racing motors as well as in some of the touring cars as regards cylinder lubrication. The question cott, Ind., owns a model 50T Overup to a short time ago was how to land which he has driven 117,000 get enough oil to the cylinder. It has now become how not to get too writing to the Overland factory re-

EXPORT DOCK AT OVERLAND

PLANT. One of Interesting Spots at Toledo for Visitors.

A visitor through the large Willys-Electricity in its many applications is known. The action of gravity would be hard put after a tour en form the stock of the Citizens' he deemed most interesting,

Here is a box labelled "Sydney, in Argentine, Santiago or Valparaiso which the electricity flows, just as dozens of car loads of Overland and

port shipment has been assembled it drawn. in is driven to the export dock, where it is is placed on stout planking which

The gasoline tank is drained, the wheels are taken off, steering column and wheel dismounted and the top which is finished with stitch- taken down. All these parts are are lined with water-proof paper to prevent the salt air of the ocean from rusting the metal parts of the car.

In a surprisingly short time the car and its contents are made snug for their long journey, a piece of canvas is laid over the car, the wooden cover is nailed down and the destination is stencilled on.

RECORD IN PHILIPPINE ISLANDS. According to word received from Manila in the Philippine Islands, the new series model 75B is there accomthose being scored at home. In a recent test under the observation committee of the Philippine Islands Oiling problems are so pronounc- from Manila to Las Banos and regallon under very adverse road con-

> OVERLAND RUNS 117,000 MILES. Ed. St. Pierre, taxi owner in Wolmiles in livery work of all kinds. In cently of its performance he says that his repairs for the entire period have in fine condition," he says. "I have not missed a single day on account of the car."

> A Pennsylvanian has invented a process for opening cocoanuts by freezing them solid, then subjecting them to temperatures high enough to expand them quickly and crack

4 545.432

MADE GOOD RECORD.

Cincinnati Automobile Club Tests Overland Six.

W. T. Foley, assistant secretary of

the Cincinnati Automobile Club, re-Overland factory at Toledo, Onio, a model 86 Overland. A car was takburetor and a small tank, which held signing, the results secured by enginone gallon of gasoline was connected. The carburetor was then set so ance deserve a big share of attenthat the engine ran freely both on tion low and high speed. The speedometer reading then was taken and perimenting, Studebaker engineers gasoline was not high-proof, but an Considering the weight of the car, ordinary grade, of which the hydro- that is almost a negligeible amount. degrees. This feat was considered sought for and secured was to give as the car had just been taken out of bouncing and swaying about. Then, nor the clutch disengaged during the tion would prevent uneven wear on trip. In other words, the car was the tires, and would reduce tire ex-

GOOD BALANCE FACTOR

It Makes Studebakers Hold To Road-Almost Perfect Balance-

By reason of long study and ex-

the car was run over a prescribed have developed Studebaker cars to course, until it stopped for lack of the point where the present day mod-

A cork extractor patented in Eng- Five more cities in Hungary are Phone 454 We are all familiar with the fact the water pipe is the path in which Willys-Knight care are shipped to land comprises an awl-like stem to be supplied with natural gas by that if we step out of a window the water flows or a river bed is these and many other points each with a loose cross bar, which is pas- a syndicate to which a concession gas deposits.

IN MOTOR CAR DESIGN.

In reviewing the progress that has

fuel. The speedometer reading was els show almost perfect, balance. then taken again, and it was found Specifically, there is only 50 pounds that the car laid travelled 17.83 difference in the weight that is carmiles on one gallon of gasoline. This ried by the front and rear wheels. meter test showed a reading of 59 The reason why good balance was very remarkable for a car of the size the car safety on the open road at of the Overland model 86, especially high speeds by preventing it from stock and had never been run be- too, it was appreciated that even balfore. The switch was not thrown ance of the front and rear construc-

Halliday's Electric Shop, Phone 94 :: ':: :: 345 King Street

THE LAST TAP

of the hammer is proof that the crippled auto sent here for mending is now in first class condition. For thoroughness is a religion with us. We do work as quickly as possible, but never at the expense of thoroughness. That's why car owners who know always send their machines here when they need attention.

Porritt Garage Co., Ltd.

sed through a cork with the stem, has been granted by the government, For detecting leaks in under- of a rod to be thrust in the ground After a car that is marked for ex- turned against the cork as it is with- which maintains a monopoly of the ground water pipes an instrument to pick up the sound and a telephone has been invented consisting chiefly | receiver with which it can be heard.



Hints to Motorists.

Every other sweater one sees is of LUBRICATING LESSONS Shetland wool and is shrimp pink in color. The reason is that it launders splendidly, does not fade and is just the right weight for summer wear. Of course, the same sweater is to be had in popular stripe combinations and in the non-fadable yellow.

Among the smart new coats is one violet cloth cuffs. The collar is a mobile. convertible rever model of the violet pearl buttons.

Flannel robes made of two-faced materials-drab or tan on one side and plaid on the other-are good for touring use. On the plaid side the plain-colored material is turned and stitched to form a trimming. These robes are lighter and less bulky than the English and Irish robes and are quite as warm.

Foot rest cases covered to match the upholstery of the car are in use again for the touring season. One is lated is even more complex. The fitted with a man's toilet articles in difficulty lies in the number of conebony and a boot-blacking outfit, ditions under which the car is handwith black, tan and white dressings. led, and the problem of securing pro-In the cover are two leather pouches. | per oil at all speeds and under dif-One holds a looking glass and the ferent load conditions becomes very other a manicure set.

be had in gray, brown and navy on touring cars. On a racing car the blue. The suits are made after the usual models, but some, instead of having the military jacket collar, will suffer from too much oil at Invent distortion to persons seated to have no collar above the well-fitted dianapolis.

ing. This allows for a narrow turn- firmly lashed to the seats of the car over collar and a white square bow or the sides of the box. The latter i tie, which is cool for summer.

LEARNED IN BIG RACES Tests Develop Weaknesses in

With aluminum pistons the problem of how to keep the oil supply not aggregated \$100. "And it is still to the cylinder walls properly regu-

much like that of carburetion. A variation in feed is really Chauffeurs' suits in mohair may quired to handle the work properly Pictures are projected from the



Roadster \$870

Horsepower

An Unparalleled Victory

About a month ago we announced to the world our newest value—the \$890 Overland."

In twenty-four hours and from every section of the Dominion we had received more orders than we could fill in several weeks.

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But still bales of business continued to flood the factory.

Step in and see this extraordinary car yourself today.

Now we are shipping 500 of the new cars every single day and are fairly breaking our backs to keep pace with the great demand that now looks as if it never would

We anticipated a great success, but we did not look for such a daily avalanche of definite shipping orders.

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Overland Sales Rooms: Arthur W. H. Callaghan, Dist., 22-24 Market St., 'Phone 1410.





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From the beginning Studebaker has recognized that Service in connection with the purchase of a motor car is just as vital to its operating efficiency as the high grade materials and workmanship that go into its construction.

In fact Studebaker does not consider its responsibility fully discharged until every detail of care and operation is thoroughly understood by the owner.

To this end there has been established what is known as Studebaker DEFINITE Service. This consists of a thorough inspection of every Studebaker car, at regular intervals, for a period of six months after purchase, without a dollar of cost. Not only does this guard against motor troubles which prevail in any car, but it educates the owner to the proper care of his car so that he can get 100% pleasure and usefulness from it every day in the year.

You are invited to come in and see how Studebaker DEFINITE Service is operated to the benefit of the user.

W. P. PETERS, Distributor, 117 Brock Street.