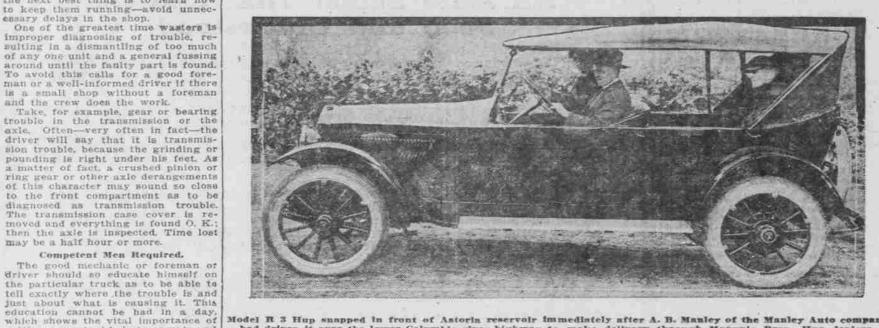
THE SUNDAY OREGONIAN, PORTLAND, NOVEMBER 9, 1919.





Model R 3 Hup snapped in front of Astoria reservoir immediately after A. B. Manley of the Manley Auto company had driven it over the lower Columbia river highway to make delivery through Maunula Bros., Hup dealers at Astoria, to Henry Lemijar of Seaside.

dways encountered when new and tral point.

care for the trucks. One fleet owner who used 12 trucks of one make discovered that all of the trucks gave persistent clutch trouble. This operator did not wait until all month. If it is decided by the manu-facturers to conduct another tour, dealers and motorists of the Pacific gineering. the trucks came in a second time, but studied the design of the clutch to determine why there was so much trouble. As a result he devised a little addition to the clutch in the form of a stronger part which elim-imated all the trouble. This was cheaper than keeping on repairing the old parts or replacing them only to have the new parts break in serv-ice. the trucks came in a second time, but coast states will exert their united influence to have the event cover the states of Washington, Oregon and California, or border to border. AUTO LICENSE GAIN BIG

of this character may sound so close to the front compartment as to be

Competent Men Required.

getting competent help to operate and

may be a half hour or more.

Difficult solutions of troubles are encountered when the trucks are of a make no longer manufactured or of foreign make or a make that has no service station within a reasonable distance of the shop. These things must be taken into consideration while the trucks are running, for it must be expected that some time or

week's profit, and then some. If also should be a lesson to many operators to avoid cheaply made trucks: trucks made by fly-by-night concerns; trucks with no national distribution and hence no service near at hand, trucks that are changed so often in design that the maker hasn't fac-tory room to make spare parts for the older models. Must Be Prepared. Must Be Prepared. There were \$2,141 automobiles, 2000 the secretary of state at the close of the secretary of state at the close of the secretary of state at the close of a total of 63,302 nutomobiles and a corresponding number of chauffeurs and motorcycles. Must Be Prepared. There were \$2,141 automobiles, 2000 the secretary of state at the close of the secretary of state at the close of the secretary of state at the close of a total of 63,302 nutomobiles and a corresponding number of chauffeurs at work addressing applications for li-mater without question the leading su-thorities on valve-in-head motor con-struction in the automotive engineer-ing fraternity. Must Be Prepared.

Must Be Prepared.

arways concurrent with the development public use. A few years later when the possi-bilities of the motor car began to be dimly realized, and when Buick activi-ties were being directed to the devel-tormeet of motor cars. Walter L Marris 82,141 CARS REGISTERED ON these were being directed to the devel-opment of motor cars, Walter L. Marr cast his lot with Buick. Unlike many of the designers of that time, Mr. Marr believed in stick-ing to the one type until he had really proven to his own satisfaction that the theories which appeared to him were either right or wrong. Army of Girls at Salem Is Addresswhile the trucks are running, for it must be expected that some time or other they will come in for repairs. If you have no shop facilities for making a certain part or getting it quickly, you might lose a whole weak's profit, and then some. It also thend he a lesson to many operators Mr. Marr was a staunch advocate of the valve-in-head type, because its

In consequence, during the years we have concentrated on the yalve-in-head type. It has not been a hit-or-miss proposition with us, or a shifting from one type to another, but a steady development with a def-inite principle of design me the cen-tral codet



Motor Trucks of All Capacities Distributors and Service Stations in all principal cities

nnouncement

We beg to announce that we have secured the distributing agency for Garford Motor Trucks in Oregon and the counties of Clarke, Klickitat and Skamania in Washington.

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At home and abroad, in peace and war, the Garford has shown the same rugged efficiency-the same sturdy dependability-which gives it distinction in the transportation field.

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Park and Davis Streets

Portland, Oregon

nents about shipments are also being trailer one of the most useful pieces Too much time would be lost if milk, butter, eggs, live poultry, fruit,

ments about shipments are also being received from the other factories. Whenever a shipment arrives it doesn't take Mr. Manley long to get action, as he demonstrated last week when he bardly gave a sleek new model R-3 Hupmobile time to wash its face before he had it sipping along the paved byways of the lower Co-lumbla river road. He had promised the Maunula brothers of Attoria, re-cently returned from active military service, that he would give them one of the first 1920 Hupmobiles to reach Portland.

<text>

in many cases the truck maker is in a position to give valuable help, or, if not, the editors of truck trade jour-nals. This department will gladly take care of any requests local op-erators may make and help in the so-lution of the more difficult problems. fAfndootjweeka d aff shrd shrdlud

CRUDE RUBBER IS SCARCE HEWITT TIRE DEALER TELLS

OF DIFFICULTIES.

In Unsettled Periods Makers Have

No Small Difficulty in Getting Material.

The wonderful importance of the rubber producing industry is not ap-preciated thoroughly by many motor-ists. When a tire is worn out and a new one is desired, little thought is given to what is represented by fill-ing the order. The automobile is said to owe its

success to the invention of the pneu-matic tire and consumers are accustomed to think more about the power plant in a car than they are the tires. Just as much, or probably more, energy and resources are represented in the tires with which the car is equipped as are necessary to produce the first cost that counts, it is the

As an example of what difficulties the tire makers have to overcome, George K. Cassidy, of the American Tire company, distributor for Hewitt tires and tubes, cites the difficulties encountered in obtaining the crude rubber. rubber. In far eastern countries, where

much of the rubber comes from, there are no suitable harbors. After the matives have labored for days, beset by all sorts of conditions, to get the rubber to the coast the product yet is so far removed from seagoing transport that the rubber must be

OREGON BOOKS.

ing Applications; License

NEWBY IS WITH BETHLEHEM

Veteran in Motor Car Game Joins Big Truck Organization.

C. R. Newby, veteran of the auto-nobile field, has been appointed field. anayor for the Bethlehem Motors orporation. Mr. Newby was for years entected with the former E. M. F. mpany, the Studebaker and the Maxwell companies as a district man ager, branch manager and general sales executive, and he is known fr one and of the country to the other

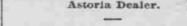
PEERLESS

Piston Rings pay dividends to the user in every mile of service. The labor cost to install a set of PEERLESS Piston rings is no more than on common rings, and actual cost of PEERLESS Piston rings over the ordi-

the first cost that counts, it is the

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Together they have experimented with practically every known type of internal combustion motor, and the small engineering laboratory in which they first started to work has now rown to far greater proportions than tionse of the whole Buick factory at that time. The development work is still going on, and the possibilities of the valve-Together they have experimented with practically every known type of Together trives and the with practically every known type of internal combustion motor, and the small engineering laboratory in which they first started to work has now grown to far greater proportions than those of the whole Buick factory at that time. Nothing slow about A. B. Manley, so distributor of Hupmobile, Grant, National and Stearns cars, whose name appears as the feature word in the appears as the feature word in the sign decorating the automobile establishment which ploneered the new sutemobile row in upper Burnside

The development work is still going on, and the possibilities of the valve-in-head design have not yet been ex-in-head design have not yet been ex-is no possible means of telling when perfection in this type of motor has been reached. "The point is." he said, "that each succeeding year finds a number of improvements in the Buick valve-head motor. This is because of the ceaseless research work that we are carrying on. The Buick motors in

Portland.

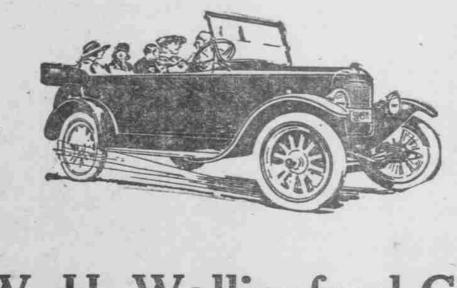
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