THE BEND BULLETIN, DAILY EDITION, BEND, OREGON, SATURDAY, JULY 12, 1919

UNIQUE METHOD OF TESTING AUTO TIRES

MOTORISTS FACE PROBLEM OF GAS

Automobile and Petroleum Men Must Get Together in Close Harmonious Co-operation.

INCREASE IN MOTOR CARS

Said to Be Possible to Construct Internal Combustion Engines Which Will Consume Much Less Fuel of Inferior Kind.

"The perennial fuel problem will never be solved until the automobile industry and the petroleum industry get together in close and harmonious co-operation." says Mark L. Requa, general director of the oll division of the United States fuel administration, in an interview, which appears in Motor, the national magazine of motoring.

"The motor fuel problem is not only a possibility of the future," continnes Mr. Requa, "but even an actuality of the present, as will be understood anyone who takes the trouble to make even the most cursory examination of the situation. In 1912 our production of petroleum was 222,935,044 barrels of 42 gallons. In 1916 the out-put of this basic producer of motor

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fuel was 300,767,158 harrels, an inper cent. On the other hand, in 1912 there were about 1,000,000 motor vehicles in the country, while in 1916 the motor population of the United States had risen to 3,541,738. This represents an increase of over 300 per cent in four years. With one side of an equation growing less than 30 per cent and the other side increasing more than 300 per cent, the ultimate situation is not hard to foreshadow.

Engine Uses Less Oil. "I am not an automobile engineer,

so I cannot speak from personal knowledge, but I have been informed that it is possible to design internal combustion engines which will consume much less fuel per mile than is now being consumed, and of a much inferior qual-ity. If this is a fact and the automobile industry faces the situation in cooperation with the oil men to effect this saving, while these latter are devoting their best effort to increasing production, it would seem that we night cut enough off each end of our

problem to solve it. "We seem to be only at the beginning of the gasoline era; a few years ago gasoline was a wasted by-product; today it is the most important product of petroleum, amounting to almost 50 per cent of the total value of petroleum products. With the record of the past as a guide, it would seem that the two great industries so interdependent upon each other should co-operate in bringing about the most efficient consumption of gasoline and the most intelligent understanding of each other's

A novel method of testing automobile tires, employed by a Deaver manufacturing concern, is shown in the photograph. The track, one-half table in circumference, presents every feature of good and had roads. An ingenious machine, with its long agm to which the tire is statched, propels the tire around the track. A weight equivalent to that of a heavily loaded automobile is suspended over the tire in such a way that the tire itself carries the load. Once started on its journey the tire continues until it has given its maximum of mileage.



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problems."



grease between the leaves, using a