

Greater Battery Value

YOUR Storage Battery will last longer if it receives proper care. Drive around and let us give it the attention it needs—regularly.

No matter what make of battery you use—or what car you drive—you will get prompt, courteous advice, inspection and attention to your storage battery problems here.

We carry a complete stock of battery parts—repair and recharge all makes of batteries—and have a service battery for you to use while we put yours in proper shape. All work handled promptly and reasonably.

Prest-O-Lite is the universal battery—there is a correct size for every car. Longer life, greater power, endurance, and vitality make it your logical choice when you need a new battery.

Archer and Wiggins

Distributors of High-Grade Automobile Accessories
SIXTH AT OAK ST., PORTLAND



Prest-O-Lite
Battery Service
Service on all makes of batteries

RIM ROAD RUSHED

Highway Around Crater Lake Nearly Finished.

HARD SURFACING PLANNED

Six Miles Completed in Season Just Past and Gap Will Be Closed Up This Year, Making Fine Drive for Motorists.

RIM ROAD NEARLY DONE

HIGHWAY AROUND CRATER LAKE TO BE HARD SURFACED.
Six Miles Completed in Season Just Ended, and Remainder is to Be Rushed This Year.

During the season just closed much road construction work was done in Crater Lake National Park. Six miles of the road around the rim of the lake was completed and next season will see the closing of the gap between the two ends.

This part of the park's road system will be 34 miles long. It will be hard surfaced and will connect with the State Highway by three branch roads, one leading to Medford, one to Klamath Falls and one to Bend. Autoists will be able to reach the lake from any one of these points.

Trail building also was an important feature of the development work in the park. One trail follows the rim of the lake from Crater Lake Lodge west to the summit of "The Watchman" Peak, five and one-half miles, with an unobstructed view of the lake for the entire distance. Another trail follows the rim east from the hotel to the top of Garfield Peak, a distance of one and one-half miles, reaching an elevation of 5900 feet.

From this point many snow-capped peaks from Mount Jefferson on the north to Mount Shasta on the south, are to be seen, as well as a grand panoramic view of mountains, forests, lakes and valleys.

The most important trail constructed in the season just ended is the one leading from the hotel to the boat-landing, a drop of more than 1000 feet on an approximate grade of only 15 per cent. This trail is one and one-fourth miles long and makes the heretofore difficult task of reaching the water an easy and pleasurable jaunt.

The trail is wide and perfectly safe for horses and burros as well as pedestrians, and next season will see the inauguration of horse and burro service between the hotel and the lake for the benefit of those who are not inclined

to the exertion of climbing in that high altitude.

Alexander Sparrow, superintendent of the park, was the first, and so far the only man, who has ever ridden a horse from the rim to the water's edge, a feat that before the construction of this trail was impossible.

FAULTY OPERATION OF ENGINE

Its Cause Often is Weakening of Springs That Close Valves.

Weakening of the springs which close the valves is a common cause of faulty engine operation. Whenever the valves are taken out the springs should be examined to see that they are all of the same length, or rather that all of the inlet set are of the same length and all of the exhaust, as the exhaust springs will probably be a little longer than the others. If one spring is shorter than the others in its set it should be stretched or else a metal plate must be put under it to bring its tension up to equality with its fellows.

Liberty Territory Man Here.

J. P. Scarce, of Seattle, Pacific Coast territory man for the Liberty car, was in Portland last week making arrangements with W. H. Wittingford, Liberty distributor, for a big allotment of Liberties this Spring.

Metz Manager Here.

William Bradshaw, manager of the Metz Automobile Company, of Waltham, Mass., was a Portland visitor last week.

Lawrence E. Therkelson. By Himself.

Sales Manager for Braly Auto Company Finds Selling Franklins Most Congenial Work He Has Ever Done.

IT'S easy enough to be happy when you are doing the kind of work you like. I have been a salesman for something almost since I can remember, beginning with the time when I hawked make-believe postage stamps to the other kids in the neighborhood for pins in a game of postoffice. After cornering the pin supply of the whole block I sold them back for pennies.

But I never have enjoyed anything as much as I have enjoyed my work in selling Franklins since I became sales manager for Mr. Braly in the Braly Auto Company. The Franklin is a car that justifies a man's best efforts, for it always makes good on all the claims made for it. In fact it more nearly sells itself than any car I have ever handled.

It is indeed a pleasure to me to know that I am making a friend every time I sell a Franklin. And Mr. Braly and I are going to have a whole cityful of friends presently, for we certainly are selling a lot of them.

Ammonia Puts Out Fires.

The private garage owner may be glad to know that ordinary commercial ammonia is a valuable fire extinguisher. Another formula for a liquid which discourages combustion is common salt.

ZIMMERMAN LIKES LEXINGTON

He Will Sell Minute-Man Six With Brunn Motor Car Company.

one ounce; sodium nitrate, one ounce; sal ammoniac, two ounces; magnesium chloride, four ounces, and water, 25 ounces. The solids are dissolved in the water. Another efficient solution is made of 20 parts of common salt, nine parts of ammonium chloride and 71 parts of water.

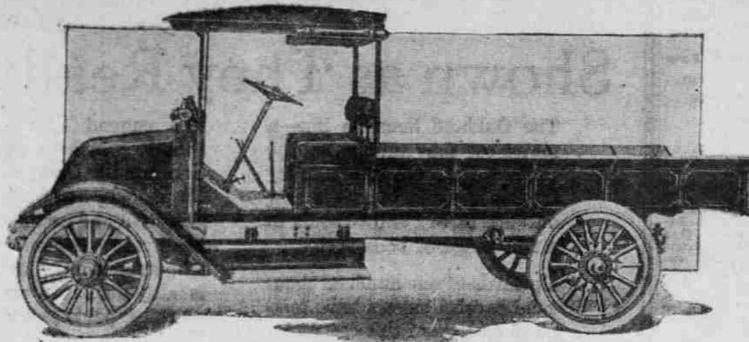
Carl Zimmerman has become associated with the Brunn Motor Car Company, and will act as salesman for the Lexington Minute Man Six. He decided to cast his lot with Mr. Brunn after he had made a thorough investigation of the Lexington, and found it exactly the car he would care to sell. Mr. Zimmerman has had wide experience as a salesman, though this is his entire into the automobile business.

Adjustment of Brakes.

In the modern braking system there are usually a number of places where adjustment may be made. It is good practice to utilize these in turn rather than stick to one adjustment.

Don't put a quick detachable clincher tire on a one-piece clincher rim, as it is necessary to break the head in forcing the tire into place.

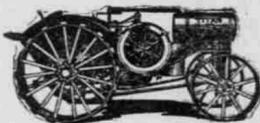
Ready for Business Whenever You Need Them



International Motor Truck

Four models, in 1500, 2000, 3000 and 4000-pound capacity sizes. Prices \$1450 to \$2550 for the chassis (cash f. o. b. factory). Suitable bodies for any business.

These are the trucks now giving such excellent service to the Great Northern Express Company, Wilhelm Transfer Company, Union Meat Company, Polson Implement Company and many other progressive firms in Oregon and Washington.



International Mogul and Titan Kerosene Tractors

Farmers looking for reliable farm power at low cost will find it here in these Mogul and Titan 10-20 H. P. tractors. Moguls and Titans are the tractors that operate successfully on kerosene at all loads, doing all the heavy power work of the farm at the lowest cost known. Mogul 10-20 sells for \$1025, and Titan 10-20 at \$1125, cash f. o. b. factory. International 15-30 at \$1900, a four-plow outfit, is also a kerosene tractor.

International Motor Truck and International, Mogul and Titan kerosene tractors will be shown at the Automobile, Truck and Tractor Show, to be held in the Municipal Auditorium, Portland, Oregon, February 7 to 13, inclusive. Don't fail to see them. For any further information regarding International Motor Trucks or Tractors, call or write the address below.

International Harvester Co., of America

309-315 East Taylor St.

(Incorporated)

Portland, Oregon

Elgin Six Proves Ability to Jump Trenches

Hurdles 60 feet 5 inches through space, 4 1/2 feet clear of the ground

U. S. ARMY officials and military experts at strength as to secure absolute safety, durability and long life never before equaled in a car in its price class.

Elgin Six

"Car of the Hour"

The extraordinary demand that has required an increase in production from 724 cars the first season to 7776 cars the second season PROVES that the car-buying public recognizes the superiority of the Elgin Six.

Perfect scores and highest economy honors have been won by the Elgin Six in many gruelling endurance contests it has entered.

25.6 miles per gallon average on a two days' trip in the Chicago Motor Club reliability contest is the astonishing economy record of three Elgin Sixes.

The new record-breaking performance of the Elgin Six was in traveling 1626 car-racking, stamina-testing miles between Chicago and Miami, Florida, in 67 1/2 hours, over the steep, rocky, mountain grades of Kentucky and Tennessee, through the heavy swamps of Georgia, and over the slimy, treacherous, swamp roads of Florida.

The U. S. War Department Elgin Six scout car and official road reporter traversed 6202 miles of its 12,000-mile transcontinental run, averaging 19.4 miles to the gallon, from Chicago to San Francisco and return.

World's Record Jumper
The world's record long distance jump of 73 feet was made by an Elgin Six stock touring car at Belleville, Illinois, June 18, 1917.

Strength and Balance
No car could withstand such abuse, such metal-testing shock and strain, amounting to more than 18 tons of striking force, unless it were made of the best possible material, perfectly balanced and honestly built throughout.

The Elgin Six so combines light weight and

\$1095 F. O. B. FACTORY
ELGIN MOTOR CAR CORPORATION Chicago, Ill.
PACIFIC MOTORS, INC.
Lee L. Gilbert, Portland Distributor
TWENTY-THIRD AND WASHINGTON STS. PORTLAND, OR.
Oregon Territory Now Open
Portland Automobile Show, February 7-13

Ford

THE UNIVERSAL CAR

The serviceable dependability of Ford cars has been so thoroughly demonstrated during the past fourteen years that fully two and one-half million Ford cars are now in daily use throughout the civilized world. This is not said as a boast but as an emphatic fact of great importance to prospective buyers to lose no time in placing their orders. The war has brought about many new conditions; brought about much uncertainty; and has naturally stimulated the demand for the necessities of business. The demand for Ford cars is the largest in the history of the company. While it is being met today no one can promise anything definite for tomorrow. Therefore, we urge immediate buying. The Ford car is a mighty profitable investment. The purchase price is small; it costs but little to operate and maintain; while there is but the one chassis, there are four different bodies: Runabout, Touring, Coupe and Sedan, giving a choice that meets all demands of pleasure and business—and there is the Ford one-ton truck chassis. Prospective buyers are urged because of uncertain conditions to buy without delay. Any one of the authorized Ford dealers listed below will be pleased to give your order immediate attention; will make reasonably quick delivery; will see that you are satisfied; and further pledge you the assurance of courteous, efficient "after service," when such may be required.

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Grand Ave. at E. Ashkeny. | PacificKisselKarBranch
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| Francis Motor Car Co.
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