BETTER ROADBEDS FOR ECONOMY AND SERVICE IS URGED

Experts Declare Taxpayers Are Losers If Highways System Is Not Built for Heavy Trucks.

Are the capacities of motor trucks to be limited to the present wear being built in this country, or will the trucks be built according to other needs and the roads make progress in proportion to the tax on their strength?

The Chinese bind the foot to fit the idea in American road building. run to build roads that will carry loads 2 1-2 to 3 tons rated carrying capacity prove inadequate. Also, it would be a considerable number of these trucks. It and carry them for years, or save money to speeds of 7 1-2 miles per hour on weste of money to build roads designed is too much to expect that concrete will now and let future generations build business streets; motor trucks of 3 1-2 for some extravagant figure in tounage. some more when these get so bad they are no longer worth using? GOOD ROADS NEEDED

Where would our railroad system be and filmsy road bed construction? And where will the rapidly developing sys- heavy-duty motor trucks in service. tem of truck transportation be a few years hence if we do not meet the prob-Washington, D. C., to San Francisco, Secretary of War Baker said that one of the great problems before our people was FEW IMPROVEMENTS

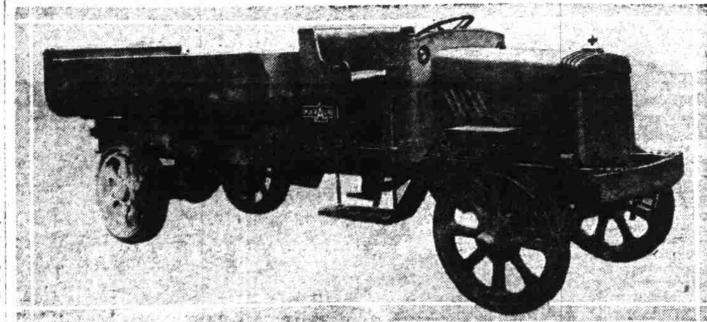
ountry saved by its highways-saved money to the prospect. because the French have always conurface roads; every town and village their use? is connected to its neighboring town and OFFER TWO STSTEMS village by an improved highway.

the East and in parts of the West dif- requirements. fer greatly in construction; everything is represented REGULATION OPPOSED

thing better than an immense failure it able bridges and culverts of steel and must be built up with an intelligent up. reinforced concrete. must be built up with an intelligent understanding of present and future re- PROPER ROADREDS posed at the last General Assembly of to

which would be to limit the size of com-mercial vehicles to 4 1-2 tons carrying It is not unreasonable to surmise that the most crucial tests. The great advancapacity, except when used solely with- in a few years, wherever proper road- tage of concrete trucks are that they

A PORTLAND-BUILT MOTOR TRUCK



shoe rather than construct the shoe to New Karayan truck, manufactured by the Caravan Motors company, which is built here in Portland by the Oregon company. Its makers say it is destined to become one of Oregon's most important products.

now and let future generations build business streets; motor trucks of 3 1-2 tons capacity and over to six miles per

HEAVY TRUCKS BARRED

Provision for a maximum limit of now if locomotives and cars had been gauge of seventy-five inches, measured limited by the former light weight rails center to center of tire would have made Standardized Auto necessary

Prohibiting operation on the highways outside of cities, villages and lem of the roads upon which they are towns of any vehicle which weighed. or tine roads upon the ligently?

The roads upon the departure of the seven tons. The effect of this would United States Army Motor Convoy, dis- have been to prohibit anything larger patched by the War Department from than a two an one-half to three-ton mo- States have realized the necessity of tor truck.

that of improved hard surface highways. from the Atlantic to the Pacific has been ture that alone than those who are Mr. Baker was speaking from knowl- Association, which is simply a group of recognized the value of the assembled edge gained by the experience of our individuals who are generously and en- truck made up of standard units, and They had seen a thusiastically giving their time and it realizes that every unit must be ab-

The consideration of highways brings not only of the manufacturer of the sidered their roads part of the system of up several questions. How are they to truck, but also of the manufacturer of national defence. Over the whole of be provided? How constructed? And the parts. The life of the parts maker

Take, on the other hand, the condi- experience in France, and from an an- paid and best engineering talent in the tions in this country. If one were alysis of our own needs—is to have two country, and to install the most modern, start in a motor car from New York systems or roads; National Highways, up-to-date machinery. By specializing to San. Francisco practically every type constructed and maintained by the fedof road, including trails, would be encountered. West of Chicago there are
constructed and maintained by the
very few improved roads until the Calistates. The former would be the main fornia line is reached. In Illinois, Iowa lines and their location would be deter- the service provided through this speand Nebraska there are dirt roads that mined by the topography of the country cialization. are practically impassable in wet weath- and the density of the population. The percentage of assembled trucks can be Such improved roads as we have in latter would be laid out to serve local

rom water-bound macadam to concrete surfaced. The concrete road seems to is right, because the product is made up be proving satisfactory. They should of parts, each unit of which is 100 per be sufficiently wide to permit safe pass- cent in its own field. If our highway system is to be any- ing of vehicles, and provided with suit-

quirements. And it must not be left to the main restrictions upon this would local whims and prejudices. For be, of course, the weight of the loads. example, consider some of the laws pro- The bridges and culverts must be built provisions, the effect of fair consideration of the part trucks are trucks, carrying a load of 55 tons (10

5-passenger Sedan

Announcement

The distribution for

CROW-ELKHART

Four and six-cylinder motor cars for the State

of Oregon and Western Washington has been

taken by the

Crow-Elkhart Sales Agency

James E. Graham, Manager

Tenth, Between Stark and Oak

Sales

Parts

Service

Six-cylinder touring

\$1745

Portland

now carried by the railroads will be car- are practically eliminated and they last ried by trucks. It would be a criminal much longer than wooden trucks. Plans waste of money to build roads that will are under way for the production of a circles Eleven fons would undoubtedly be a rea- cars, but it is possible that we shall sonable figure, considering both the pressure the advent of the concrete motor ent and the future. But, at any event, truck at no very distant date. let's not be Chinese about it.

Is Greater Success Truck Makers Learn

Truck makers throughout the United standardizing their product.

It seems strange to think that in this Parts makers producing an individual country the only practical overland route unit are in better position to manufacprovided through the Lincoln Highway making many parts. The nation has solutely O. K. to insure the business France there extends a network of hard what restrictions are to be placed upon and his business depends upon his making the best possible unit. The use of these units by many concerns enables that parts maker to establish large in-The logical method-gained from our dustrial plants, to employ the highest in an individual unit, the maker is able to provide a chesper, but at the same

the main There is an element of advantage in procured almost everywhere in the United States and in foreign countries. In construction they should be hard The principle of the standardized truck

Atuo Truck Made of Concrete Next

We have concrete ships. Now we are

eral Men Prominent in Finan- scene of extensive operations. cial Circles of This City.

of \$100,000, is the name of the new distributor for the Oakland Six. He concern, with E. D. Van Dersal as has but lately given over the sgency and consulting engineer, W. L. Boise, tributors secretary, and George H. Peters as engineer in charge of construction. road construction per mile at the | in the limits of more than 20,000 popula- | beds are provided, much of the freight | do not need painting, maintenance costs | The ' directors will include several The truck will be manufactured and

pany will enable it to begin construc-About 10 per cent of the 80,000 miles tion very shortly on a large quantity of highway in and about New York basis. The division devoted to manu- expert with an experience of 15 years state is improved under the state and facture has on the payroll many men in the Western field. It is to Peters expertly familiar with truck construct that the Karavan truck owes its cugged

for other men with a highly trained been planned from the manufacturing end with great care to preclude the possibility of inefficient administration. under the direct charge of

The sales division of the company will in the construction of the truck were Van Dersal, who has located temporary early in 1919. The first experimental salesrooms at 354 Burnside street. The job turned out by the builders appeared sales plans do not at present include a in the fire prevention parade last fall, sales plans do not at present include a said later the Corvallis fire department total might have remained in North-national campaign, but for the time being the territory west of the Rocky was furnished with fire apparatus East. mountains will be thoroughly covered, mounted on a Karavan chassis. Ship-Local Concern Is Formed of Sev- and the Oriental trade, fitted aptly for ments of parts are now coming to the the name Karavan, will also be the plant, and deliveries are expected to

MEN ARE WELL KNOWN E. D. Van Dersal, promoter of the new company, is one of the pioneer automotive men in the local field, hav-Oregon actively enters the auto- ing been associated with the business motive manufacturing field with the here for the past 10 years. He introorganization of a local company for duced the Studebaker light delivery in he purpose of manufacturing the the Studebaker corporation. He man-Karavan truck. The Karavan Mo- aged the sales of the Federal truck comtors company, with a capitalization pany here in 1914, and during the period between 1915 and 1918, was the Oregon president, Fred Hesse, vice president rights for Oregon and Washington for the Garford truck to the present dis-

> Fred Hesse has been for some years in the iron and steel business in this city, and at present is the head of a large plant on the East Side, the scene the manufacturing operations for the Karayan truck.

W. L. Boise is a prominent Portland marketed under the name Karavan, and time as a champion of Oregon induswill be manufactured by the Hesse- tries and an enthusiastic booster of Martin Iron Works, at East Ninth and Portland payrolls. His connection with Taylor streets. Numbers of large gov- the Karavan company is an outcome of ernment contracts secured by the com- his long interest with the local trans-

George H. Peters is a transportation

tion, and the company has arranged design, and is largely a result of his possible with design, and is largely a result of his possible with the plant man finished engineering skill. His familiar- away in a Middle Western city knowledge of gasoline engines and of prime factor in the arranging of the chassis building to take care of the demercial marketing of the carrier.

BEGIN DELIVERING SOON The contracts for parts to be used ... D. placed with Eastern manufacturer

commence about the middle of March. One feature of Karayan manufacture is that the trucks are not sold with any definite tonnage capacity rating marked, such as is known to be noted in trucks of other makes. The truck is designed solely with the idea of improving hauling conditions in the Northvest, and provide a carrier that may be bought on the ground, thus insuring

An Oregon product and catering to payroll valuation of \$150,000,000, the Karavan company's carrier is designed to keep here as much as possible of the money expended for automotive equipment in the West. Officials of the company declare that had the entire automotive equipment now owned in the Northwest been purchased in this section of the country, 40 per cent of the

Autos Cost Billions

The total value of the passenger cars and trucks produced by various automobile concerns in this country in 1919 was \$1.807,594,584, which is exclusive of the wholesale value of bodies, spare lires and accessories to equip the vehicles. There were 1,586.787 passenger cars produced and 305.142 trucks turned out.

Automobiles with a right hand drive more prompt deliveries than might be are the popular cars in Buenos Aires.

When Visiting the

MOTOR

SHOW

Come On Over!

We're just across the street from

the Armory and have something

to show you the like of which you

probably never have seen. It's the

MACK

TRUCK

turned over on one side with all

cover cases removed and operated

by electricity. We are sure that if

you inspect this display you will

Come see what makes the wheels go 'round

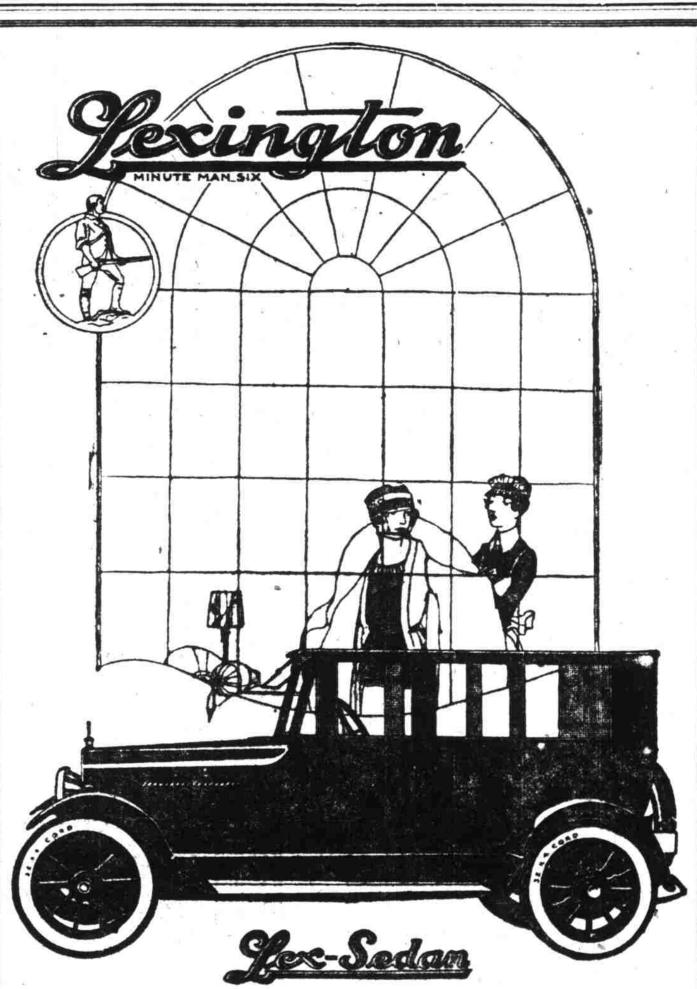
MACK-INTERNATIONAL

MOTOR TRUCK CORPORATION

TENTH AND DAVIS Phone Broadway 691

learn something.

chassis of a



Newest Type of Closed Car

TEXINGTON introduces the car which gives the Lex-Sedan a wide touring range solves the closed car problem by building the body for the top.

The results are extraordinary, for a closed car, both in performance and ap-

The Lex-Sedan has the finished onepiece appearance of the built-up type of closed car, yet-

It is much lighter in weight, effecting marked economy of gas, oil and tires with reduced load for the motor.

Also, the less cumbersome construction

without destructive body twists and strains.

The Lexington chassis has many exclusive features, including self-oiling spring bushings; non-rattle frame; one-finger emergency brake: cable foot brake, and Moore Multiple Exhaust System in conjunction with the Lexi-gasifier which uses low grade fuel and increases the force of every power impulse.

The Lex-Sedan is upholstered in Spanish leather and velour in harmonizing shades.

BRUNN MOTOR CAR COMPANY

28-30 North Broadway at Couch, Portland.

See Our Exhibit at the Show

Lexington Motor Company, Connegwille, Indiana, U. S. A.

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America's Incomparable Car

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Manufactured by The Re Vere Motor Car Corporation Logansport, Ind.

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Four-cylinder touring

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