PRODUCTION IS BEING IN-

CREASED TO 600 DAILY.

Army of 12,500 Employes Engaged

in Building New Car Are

The Willys-Overland company con-

feature of the three-point suspension

PIONEER AUTO TRUCK

First Self-Propelled Carrier Dismal Failure.

IT RAN ONLY SEVEN MILES

Crank Shaft Broke Under Strain and Vehicle Was Abandoned by the Roadside.

Belated realization of transportation visions which the creators of the steam wagon had for it, is seen by ship-by-truck advocates in the transportation role the motor truck is assuming today.

The men who in the early part of the 19th century brought forth the steam wagon labored long and spent

much money experimenting before they gave way to the conviction that its transportation range must be fixed by steel rails.

A monument in Nebraska city tells of one of their last ventures. The monument stands on the spot where this venture had its start, and only seven miles from where it ended. The inscription on it reads:

"Steam wagon, invented and owned by Joseph R. Brown of Minnesota, manufactured by John A. Reed of New York, landed at Nebraska City from steamer West Wind, July 12, 1862. Started for Denver, self-propelled, July 22, 1862. Disabled and abandoned seven miles out."

Pioneer Vehicle Sold for Junk. Pioneer Vehicle Sold for Junk.

Few of the scores of persons who took part in the great welcoming reception given at Nebraska City upon the debarkation of the big wagon, and rode in the string of wagons it hauled through the streets of the town that day, are alive now. They believed it would make scheduled trips between Denver and Nebraska City, hauling big loads and solving the local short-haul transportation local short-haul transportation

But a crank shafting which broke when it was a few miles out on its maiden trip spelled its doom. It was left on the roadside until a mill owner who wanted its boiler paid \$200 to its owner, who had spent thousands on it.

The roads were too much for its

The roads were too much for its delicate parts and its weight was too much for the roads. Steel rails had to come to the territory before its successors could take up part of the work laid down for it.

Now the metor truck has come to take the short-haul job on the highways. And it is doing so well that one of the country's foremost transportation authorities, C. A. Morse, assistant director of operation of the United States railway administration. Now the motor truck has come to take the short-haul job on the highways. And it is doing so well that one of the country's foremost transportation authorities, C. A. Morse, asportation authorities, C. A. Morse, assistant director of operation of the United States railway administration, expressed himself recently as believing that the time may come when the steel rails of light traffic expensively operated short lines will

an instance of legat traffic expensively operated short lines will be torn up and their right of ways converted into highways for trucks. Other transportation experts and many ship and truck advocates express the same truck advocates express the same truck on the highways, when compared with the steam carrier on branch line rails, are indicated for the whole United States by citing figures for a typical state, writes E. Fär, chief of the Firestone ship-bytruck bureau, at Akron. Oho, in a letter to the Portland branch of the bureau, touching on the use of the motor truck as a feeder of the railroads. "In Wisconsin the railroad mileage is 12,000 miles. The highway transport committee during the way transport committee during the way transport committee, and suitely sight and requires no greated at heavy expense to the material and when removed affords a large of the order of the servence of the railroads. "In Wisconsin the railroad mileage is 17,000 miles. The highway transport committee, and ship traffic branch lines which are operated at heavy expense to the many transport committee, and ship traffic branch lines which are operated at heavy expense to the many and trucke as Strong as Two-Piece Housing.

Through its country-wide organization strate it. Twice as Strong as Two-Piece Housing.

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Through its country-wide organization strate it. Two-Piece Housing.

Through its country-wide organization of branches, depots and dealers the bureau, the removed in the first three are now more truck on the motor truck as the complete strate individual efforts in good roads building. The bureau, touching of the most stallwart and right work of the most stall in the Cole Aero-ling force of 12,500 cm lines. Two-Piece Housing is of the most stalled in the Cole Aero-ling force of 12,500 cm lines.

The automobile industry generally, and the tire world particularly, will be interested in announcement by the Goodyaar Tire & Rubber company of the creation of the position of sales manager, and appointment to that position of L. C. Rockhill, widely known in the trade.

The appointment, coming when Goodyear is able to announce the class of the most successful year in its remarkable history, with a total gross sales of \$163,000,000, attracts wide attention to the man who will

wide attention to the man who will direct the sales policies of this great American industry, whose activities fract to the far corners of the world. Mr. Rockhill has been with Good-

Mr. Rockhill has been with Good-lear something over 12 years. Pre-vious to that he was in the advertis-ing department of a Cleveland news-paper. His first service with Good-year was in charge of the repair de-partment, a subdivision of the auto-mobile tire department, handling re-pairs and adjustments. He was suc-cessively made manager of the aero-nautical department, manager of the outomobile tire department and as-sistant sales manager in charge of tire sties.

tire sales. The Goodyear announcement is in line with the company's consistent policy of recognizing ability and revarding loyal service in its ranks. Mr. Rockhill's advancement to the position of sales manager follows naturally, by virtue of his long experience 2-CAR GARAGE HAS ONE DOOR

L-Shaped Building Has Opening at

Angle. A two-car private garage in Chicago is enabled, by an ingenious palented arrangement, to accommodate both of its occupants with a single door of ordinary size, withou any confusion or maneuvering. The garage building is L-shaped, and the door cuts across the corner of the "L" at a 45-degree angle. Either car may thus be driven straight into its particular sides or out again, without interfering with the other, THIS IS A NICE JACK-POT TO BE IN-WHAT?



IT WAS THE CHEVROLET'S ANTE, AND IT MADE GOOD.

It happens to be just one of a good many interesting touring situations into which Jesse G. Sills, scenic moving-picture camera man, of Portland, got his Chevrolet touring car in the course of trips over the northwest this past summer and fall in search of scenic pictures. This particular photograph was taken by Mr. Sills, showing the Chevrolet in one rather difficult situation in the Cascade mountains. It got out all right. Mr. Sills bought his Chevrolet a year ago from the Fields Motor Car company here, and it has given him sterling service.

ROAD BUREAU BROADENED

GOODRICH TO GATHER HIGH-WAY TRANSPORT DATA.

Raymond Beck to Continue on Wider Scope Work That Was Started in 1911.

Prompted by a healthy growing deand for highway information and charts from highway transportation engineers and advocates, C. B. Cad-well, local Goodrich manager, an-nounces that the national touring bureau of the B. F. Goodrich Rubber company will be broadened to include the dissemination and distribution

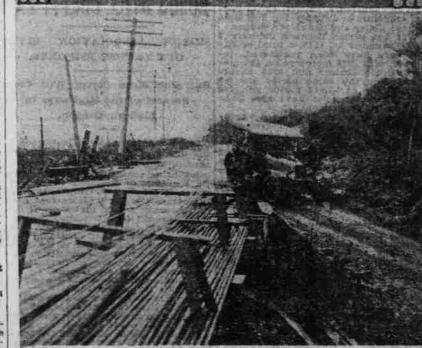
crossing the great desert section of the Great Salt Lake country.

F. A. Seiberling, president of the Lincoln highway and of the Goodyear Tire & Rubber company, considers Los Angeles a logical terminus of the great transcontinental highway and suggests that the new spur of this highway should run to Oasis by way of Tonopah and Goldfield, then through the Owens river and Antelope valleys to Los Angeles.

This would mean 500 miles in Callfornia and 270 in Nevada. The Automobile Club of Southern California has already sign-posted the entire route, and with the backing of this organization and that of the Lincola Highway association, it is expected that both Nevada and California will construct their portions of the Ely. construct their portions of the Ely Los Angeles highway.

ANOTHER COLE FEATURE

ONLY ONE SHORT DETOUR NOW ALL THE WAY FROM PORT-LAND TO ASTORIA.



This detour, between Deer Island and Goble, is made necessary by the building of a new concrete bridge at this point. It is very short, not over 100 yards, and the detour is graveled and passable in any weather. Incidentally, this one detour is the only bit of unpaved highway now from well this side of Deer island all the way to Goble, Rainler, and half way on to Clatskanie. The picture shows a Franklin car starting to make the detour on a recent run to Astoria.

HUDSON IN TOUR OF THE BATTLE FRONTS

Super-Six Blazes Trail Many Tourists Will Follow.

ARMY MEN PRAISE AUTO

Three-Year-Old Car Stands Un Under Strain of Hard Trip Taken by Two American Officers.

Blasing a trail which will be fol-Blazing a trail which will be followed in years to come by untold thousands of American tourists, a Hudson super-six completed a ten days' trip over the battlefields of Northern France and Belgium, according to word just received by C. L. Boss of the C. L. Boss Automobile company, Hudson distributors here.

"The journey was remarkable

"The journey was remarkable mainly by the excellent service rendered by the car, which was three years old and had been run 29,000 miles." said Lieutenant J. H. Morri-

sey, who piloted the Hudson.

"Despite the unusually severe strains and tests that naturally ensuo on touring through European battle-fields," continued Lieutenant Morrisey. "the car was in good condition and running as smoothly at the end of the journey as it did three years ago. "In the ten-day leave period allot-ted to members of the United States

ted to members of the United States cruiser and transport force at the completion of its work in returning troops, I felt that I could make much better use of my time if I took my Hudson across.

"With another car I might have feared to do this because of the difficulty of obtaining replacements in case of breakage. However, I had implicit confidence in my Hudson.

"We started from Breet with six passengers and an extra heavy load of baggage. In addition it was necessary to carry a reserve supply of gaso-

of baggage. In addition it was necessary to carry a reserve supply of gasoline, 50 gallons in all, owing to the scarcity of French gas.

"The run to Paris, 385 miles, was made without the slightest difficulty. The following day we went to Amiens, through the Somme battlefields to Lille and in the six days following, visited Ypres, Ostend, Zeebrugge, Ghent, Brusselz, Liege, Louvain, Cologne, Coblens, Luxemborg, Treves, Verdun, Rheims.

Verdun, Rheims.

"Then we returned to Paris after covering a total of more than 1100 miles. Our only difficulty on the trip, despite the fact that roads through Flanders and northern France have not been repaired yet and numerous shell holes make it hard going for the tinues its remarkable progress in building Overland Four, the light car which has introduced a new standard of easy-riding comfort in its exclusive feature of the three-point suspension springs.

Word comes from Toledo that the production of Overland Four has now reached 500 cars a day. The various factory departments are engaged in spirited rivalry to accomplish their part of the operations so that production may reach 500 Overland Fours a day. Cetting production up to 500 a day on this new type of motor car is an instance of loyalty and intelligent co-operation on the part of a working force of 12,500 employes.

This record is further interesting in view of the fact that there are now no street cars in Toledo, the citizens having voted for an ouster ordinance. The rallway company took the city at its word and sent its street cars into Michigan. Despite this, the Willys-Overland factory has had an attendance of 100 per cent of its 12,500 workers since Toledo became trolley-less. car, was due to the water in the gas-oline, a common trouble over there, and an unusual number of punctures

and an unusual number of punctures due to shrapnel splinters.

"When the age of the car and the exacting demands made on it not only during this trip, but for the past three years, are considered, its present performance appears to be marvelous. To my mind it is a wonderful tribute to the inherent quality of the Hudson."

STEWART TRUCK ABROAD

71 IN ONE SHIPMENT TO FOR-EIGN PURCHASERS.

American-Made Vehicles Are Sold Cheaper in Europe Than the Foreign-Made Trucks.

NEW

That Smartest Roadster

Another Mitchell Creation

THERE are many surprises in this new three-passenger model, all of which you will appreciate. In point of appearance, this Mitchell Six leads its class. It is extra roomy; finely finished

The major betterments are found in the chassis. Over two years of revisions, based on sixteen years' experience, have brought scores of improvements.

Many of them mean more strength, more endurance, lasting newness, longer life. They cut down operating and upkeep costs. They mean more power, more comfort.

Built to Last

Time has shown that old-type Sixes aged too rapidly. Many ele-ments contributed to this fault. So Mitchell factories added now machinery and equipment costing over

\$300,000 in order to make these new-day cars endure.

Radical tests have been installed. An exacting inspection system has been created. Better materials and finer workmanship are employed.

Many vital parts are larger and stronger. Brake efficiency has been increased. A new-type disc clutch is added. Long cantilever rear springs give greatest riding ease and do not break in use.

Many refinements have taken place in the Mitchell motor. Utter smoothness, balance and fit save much waste of power, give longer life and result in economy.

Throughout the car, new standards are incorporated. Combined, they are creating a nation-wide sensation. They represent a value un-approached in this class. Come see these fine but modest-priced cars.

MITCHELL MOTORS COMPANY, Inc., Racine, Wisconsin

Mitchell, Lewis & Staver Co.

Broadway at Oak-Portland

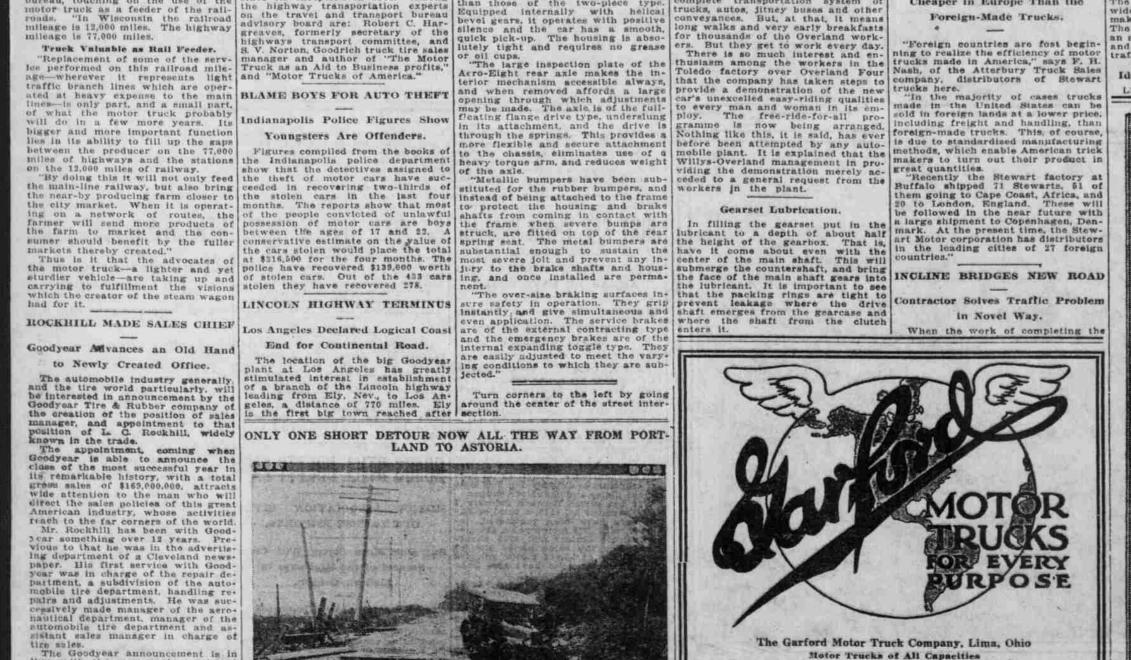
connection of north and south side boulevards in Chicago was held up by conditions of labor and material the impatient engineeers decided to expedite matters and relieve traffic congestion in a novel way. North-bound autoists early this fall found a surprise awaiting them in the shape of a huge incline of wood, bridging the unfinished section and offering a new way out of the business district. The incline is 200 feet long, 20 feet wide between rails, and rises 12 feet, making an easy 5½ per cent grade. The big structure was completed in an actual working period of 48 hours, and gave immediate relief to the and gave immediate relief to the

traffic situation.

Idaho Highway to Be Hastened.

LEWISTON, Idaho, Dec. 6.—(Sps.—18.)

Automobile Lighting and Starting that the exchange is so low that it gives the German special advantages in competing in the British market remains to be seen.



Motor Trucks of All Capacities The Huskiest Truck

of its class in the world

An adequate stock of parts USERS KNOW

Garford Oregon Motor Sales Co.

Eighth and Davis Streets

Portland

