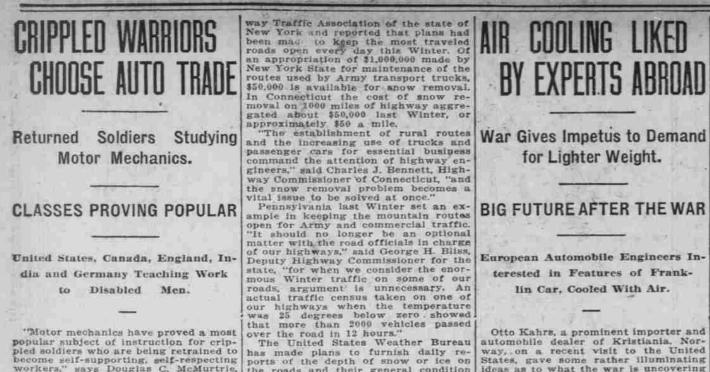
THE SUNDAY OREGONIAN, PORTLAND, DECEMBER 22, 1918.



"Motor mechanics have proved a most popular subject of instruction for crip-pled soldiers who are being retrained to become self-supporting, self-respecting workers," says Douglas C. McMurtrie, director of the Red Cross Institute for Crippled and Disabled Men, New York, "In fact, the trade is almost too popu-lar, say directors of Canadian sch. As in which hundreds of disabled soldiers are today being trained in new occu-pations. pations.

"Practically every Canadian soldier who is asked to choose from among the various trades in which classes are operated selects automobile mechanics. But most of the men have to be dis-suaded from their intention and are turned into other channels of industry. Otherwise every crippled soldier in the dominion would be looking for a job as automobile mechanic after he had com-pleted his course of training and the supply would far exceed the demand. "Canada, England, Germany and India are among the belligerents that offer training courses in motor mechanics to the disabled men of their own forces, and America, in line with the pro-gramme of re-education that she has adopted, is teaching her wounded and disabled soldiers automobile repairing. At Fort McHenry, where the United "Practically every Canadian soldier

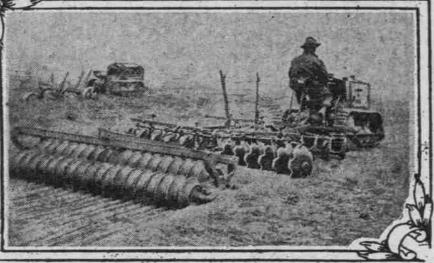
At Fort McHenry, where the United States operates a large reconstruction hespital, one of the trades taught to convalescent soldiers is automobile mechanics: A one-armed or a one-legged automobile mechanic will not be a new thing under the sun once the general public has been committed to the prin-ciples of re-education.

## Repair Shops Equipped.

"In British Columbia gasoline engine elasses were organized soon after the wounded began returning from over-seas; Vancouver, Victoria, Eskuimait and Westhaven provide instruction in motor mechanics. In Victoria the mili-tary hospitals commission and the Board of Education together operate a fully equiped motor renair shop. In Board of Education together operate a fully equiped motor repair shop, in which men who wish to become chauf-feurs are taught. Men trained in this course conduct a well-patronized jitney stand in the town. Those who wish a thorough course preparing them as mo-tor mechanics are sent to Vancouver and later to the new workshops at Es-quimalt and Westhaven. The military hospitals commission has made an ar-rangement by which war cripples at Vancouver are taught driving at an ex-cellent automobile school in evening classes. Then, too, through the gener-osity of the owner of this school, any osity of the owner of this school, any disabled soldier may attend his day classes free of charge. Several men from other parts of British Columbia are kept in Vancouver on a mainte-

automobile dealer of Kristiania. Nor-way, on a recent visit to the United States, gave some rather illuminating ideas as to what the war is uncovering the roads and their general condition to the automobile clubs in Pennsylvania this Winter for the benefit of truck and Mr. Kahrs says that in European

TRACTOR DOES YEOMAN SERVICE ON FARM NEAR GRESHAM



This Cleveland Tractor, Sold by the McNeff Tractor & Auto Co., Pittock Build ing, Was Snapped in the Act of Pulling a Six-Foot Tandem Cut-Away Disk and Six-Foot Tandem Packer.

passenger car drivers. Forecasts of ap-proaching storms will also be supplied daily to the superintendent of high Ways predicted that after the war there will be a goodly number of firms manufacturing air-cooled cars.

For a long time European papers have reflected the growing tendency toward air cooling. People over there who are interested in automobile de-THEY MUST GUARD AGAINST TRAFFIC CONGESTION. onditions From the observations thus made, it

From the observations thus made, it is quite clear that future developments must be along the lines of lighter weight, greater flexibility and more economical operation. The fact that di-rect air cooling is particularly adapted to these requirements undoubtedly ac-counts for its growing popularity among European automobile engineers. "There are many features about the Preparations in America for the traf-

Oldsmobile Price Stability

Our prices have been revised in keeping with present reconstruction requirements. Prospective motor car purchasers, in this uncertain period, will welcome the certain assurance that today's attractive prices on Oldsmobiles are guaranteed by the factory up to July first, 1919.

SIXES

Model 37 Touring or Roadster Model 37 Sedan or Coupe

Model 45A Pacemaker

Broadway at Couch

EIGHTS Model 45A Touring Car

Never in its twenty-one years' history has your purchase of an Oldsmobile represented a sounder investment than right now.

Beauty-Power: The first requisites that discriminating people look for in a car, are borne out in every detail of the Oldsmobile, whether your choice is a Six or an Eight.

We are as glad as we are proud to demonstrate these cars. Come in, or phone for an appointment.

All Prices F. O. B. Portland

\$1495.00

\$2100.00

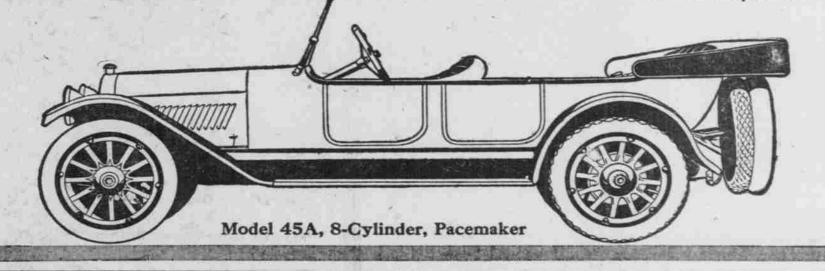
\$1900.00

\$1900.00

1919 Sedans and Coupe Have Arrived

The OLDSMOBILE Co. OF OREGON

Phone Bdwy. 2270



breaks down the tire before its appointed time.
The sturdlest machine, of whatever is sufficient to the construction of the sturdlest machine, of whatever is limitations. A fly wheel can run so fast and no faster, it has a critical speed which, if expression on a conveyor which passes between double rows of lathes set backs to an one a conveyor which passes between double rows of lathes set backs to gether. The lathe operators take these models and perform several operations are placed in or the conveyor, where they pass to a certain point, its compressibility casses between found of the causes the rubber particles to compressed that the tire is weakened so that it point causes the rubber particles to comes more susceptible to common in juries. The life is crushed ould of the tire and it will never resume its former is enclosed and perform several operations performed. At about two-thirds of the way down breaks down the tire before its ap- ations before going to powerful ma- the line the practically completed



TRAFFIC CONGESTION.

Official of Federal Motor Truck Company Points Out Duty of Business Men.

tools needed in repair work are includ-ed in the equipment. An electric motor gives power for the machines. The class has a 15-20-horsepower Darracq mo-tor car for instruction purposes. "Germany, too, has excellent train-

ing courses for war cripples who take up motor mechanics. At Dusseldorf on the Rhine, by the co-operation of the provincial and city administrations and local welfare societies, war cripples are being trained in many skilled trades. Here the course in automobile nechanics was established at the remechanics was established at the re-quest of the motor repair shop owners, who needed workmen and could not obtain able-bodied men. Within a very few months the pupils of the first class had successfully repaired 14 different types of motors whose mechanisms they understood thoroughly. "Even in far-off India the trade of

"Even in far-off India the trade of automobile mechanics takes hold of the imaginations of the natives. It must be a curlous sight indeed to see India's disabled sons repairing an automobile or studying the intricacles of mechanics in the shops that are operated at Queen Mary's Technical School in Bom-bay. These curly-bearded, olive-skinned wariors will not be left on the high-roads to beg after they have served their country, but will be trained for useful trades in which their physical handicaps do not prevent them from competing with able-bodied men."

ROADS TO BE KEPT CLEAR

EASTERN STATES WILL INSURE WINTER TRAVEL.

Highways Will Be Kept Free of Snow to Facilitate Truck Freight. Mail and Express Traffic.

Concerted action to keep highways open following snow storms during the coming Winter is being taken by the Highway Commissions of the Eastern states and some of the Central states. The importance of transportation by motor truck and the overland delivery of thousands of Army trucks to Atlanfic ports last Winter emphasized the need of keeping the main highways open for travel through the Winter, and Dastern State Highway Commissioners believe that with the estab-lishment of many rural motor express lines and parcel post routes there will be continued heavy truck traffic during the coming Winter. Highway Commissioners, or their rep-

resentatives, from New York, Connect-cut, Massachusetts, Pennsylvania and Delaware recently met with the High-

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roads of much of the short-haul traffic In fan assembles that have V-shaped pulleys for the belt, it is well to ex-amine this location for accumulations and that many kinds of freight can be transported on long hauls with great

as most motorists know. Some varnish manufacturers supply a special thin-ning liquid, which should be used in "The railroad tie-up of last Winter was not merely a temporary affair. The volume of goods to be moved will The volume of goods to be moved will not grow less—there is every reason to believe that it will greatly increase. It is not so likely that there will be a serious fuel shortage the coming Win-ter, inasmuch as the American people in this instance. When it is desired to produce a quick-drying enamel, try us-ing alcohol for thinning. Insert new piston rings every 13

Insert new piston rings every 15 learned a very serious lesson.

"How can I care for a truck tire," This question is seldom asked by truck

Wilson, "solid tires are apparently nothing more than chunks of rubber

and that many kinds of freight can be transported on long hauls with great success and at a reasonable cost. "The Federal Motor Truck Company is now turning out the heaviest pro-duction in its history," says Mr. Row-ley. "Federal distributors in all parts of the country are impressing pur-chasers and prospective purchasers i with the necessity for them to rely i with t fastened to the wheels-what can hurt them? They will wear out in course of time anyway, so why bother to look

Ordinary turpentine is a satisfactory addium for thinning enamel or varnish,

than makes up for its lack of delicacy-so that reasonable care with a truck tire is just as essential as with an automobile tire.

automobile tire. "Overloading is one of the great abuses visited upon truck tires. In many cases overloading is intentional, but in the majority of instances the practice is carried on unknowingly or carelessly. But the result is the same in either case. The overstrain soon

MANY DODGE CARS REQUIRED "OVER THERE."



ONE DRIVEAWAY OF CARS FOR THE ARMY LEAVING DODGE BROS. FACTORY AT DETROIT. The photograph gives a faint idea of the number of motor cars required by the Army for service in the United States and in France. It represents one convoy of 126 Dodge motor cars about to leave Detroit for the Atlantic Seaboard. Cars at the right are business cars, with special fittings for the Quartermaster Corps. The remainder are the regulation touring cars. This was one of many such driveaways.

resiliency. "Overloading, of course, is only one of the abuses to which truck tires are commonly subjected, but it is the most prevalent, and this is why we are emhasizing care in loading trucks only o recommended capacity. "Overloading is bound to increase the

"Overloading is bound to increase the cost of operation greatly, and while the tires are wearing away abnormally, the truck itself is depreciating at an un-reasonable rate. So our advice, based on experience, is, if you must overload your truck, equip it with oversize tires when your old ones wear out. They will be far more economical in the end."

FORD AXLES QUICKLY BUILT

**Progressive System of Assembly Is** Shown at Ford Plant.

One of the best places to observe the Ford system of progressive manufacture and assembly is the rear axle department of the Ford factory at Detrolt

Here the rear axle housings are started in the process of manufacture at one end of the department, which covers 30 bays, and are finally brought together with other parts to make the finished rear axle assembly at the

At the extreme east end of the department is an immense pile of "bells," as they are called. These bells, two in number on the car, are bolted to-gether, joining the right and left-hand sections of the rear axle housing. They inclose the bevel drive gears, through which power is transmitted to the rear wheels

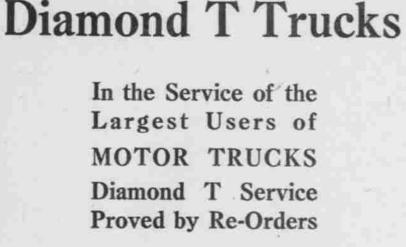
When the bells are taken from the big pile they pass through a few oper-

VESTA

By "Doctor Spark"

The patented Impregnated Wood Mats in VESTA BAT-TERIES prevent "treeing." The fiber of the wood is impregnated with a chemical that positively prevents the passage of metalic lead through it; acting as a preservative and prevention of "shorts."

GIBSON ELECTRIC GA-RAGE & STORAGE BAT-TERY COMPANY 12th and Alder



The Diamond T Truck has an unusually high re-order record. Those concerns who first tested Diamond T quality with small trucks and are today using them in fleets-would never have re-ordered unless Diamond T. service had been all they could expect-

A real service of continual value-

Helping them to keep down running costs.

This service has been one of the big reasons for no Diamond T having worn out in usage.

This Diamond T standardization and keeping up of quality not only gives the truck user absolute protection against mechanical troubles-it insures him against possible trouble in getting new parts. Every part in a Diamond T Truck is marked by our factory number. This corresponds with the parts makers' number, so you can replace parts any place in the country.

Made in 1, 11/2, 2, 31/2 and 5-ton capacities.

We can make immediate deliveries.

Aggressive agents wanted.

