THE OMAHA SUNDAY BEE: OCTOBER 28, 1917. 12 - B freeze solution. The following for-mula have been found excellent. Do not use calcium chloride or other and is pleased with the Omaha out VERTICLE SPLIT IS aside, use a flat wrench with a pair Practical Auto of pliers at one jaw to twist with. Water in the Crankcase. go into effect. chemicals as they injure the metal of look. **MOTOR INNOVATION** "People must remember that print- either have to run their letters through Paragraphs This is the time of the year when the cylinders and radiator. ALCOHOL, GLYCERINE ANI WATER SOLUTIONS. water condensation in the crankcase is a serious matter. The more cylind-Must Moisten Own Stamps; By S. P. La Due No Supplies Received Yet Freesing ers the engine has the worse the sit-Oldsmobile Has New Idea For Steering Knuckle Troubles. Front wheel spindles upon which the bustion, makes its way past the piston Point Great demands are being made on lick stamps, placing an extra 1-cent hand. The local postoffice has 3,000,-the Omaha postoffice for postcards of stamp on a postcard and an extra 000 of the 3-cent stamps on hand, but Degrees Fahrenheit -20 -15 Water. Alcohol GL cerine. Pct. 7.5 Automobile Which is the 2-cent denomination and stamped 1-cent stamp on a 2-cent stamped en- has none of them in rolls. wheels are mounted turn on the king rings into the crankcase where it inter-Found to Be Patbolt or pin. There are bronze pin feres with lubrication. In the warmer -1-11 bushings to take the wear, but due to weather the water in the form of entable. the lack of lubrication the bolt often steam may blow out of the breather. ALCOHO . AND WATER SOLUTIONS. "freezes" in the bushing and then the bat when the crankcase is fanned by Freezing point Fahrenhei Denatured Alcohol. Water AlcohoL Few indeed are the patentable Water a cold breeze the steam condenses into bolt turns around causing wear where there is no renewable bushings. In a water which contaminates the oil. The Pct. 72 60 features of any automobile motor. remedy of course lies in draining the That is why automobile engineering case of this kind, the king bolt should oil about every four weeks and filter--10 is largely a matter of picking and be removed by first removing the caschoosing from among the scores of tellated nut at the bottom. After ing it. In some eight and 12-cylinder ways of accomplishing the same re- cleaning the bolt and the part it fits engines more than a pint of water may --- 20 Kane Comes to Omaha to be removed under certain conditions. into, oil copiously and replace. Tight-Take the Ajax Tire Agency Anti-Freeze Solutions. But a pecularity in the design of en the nut well. Every owner who will use his car this winter will have need for an anti-manage the Ajax tire branch. Kane the eight-cylinder motor in the Making Brake Adjustments. Oldsmobile, a design known as the "vertical split," was found to be patentable. As a consequence the Oldsmobile manufacturers are en-In taking up on the brakes do not always remove the slack at the same place. There usually are two or three places in the brake assembly where a "take-up" is possible and each time abled to offer motor-car buyers an engine not open to general copying, stated Charles Tucker, manager of the the brakes are adjusted a different place should be used. The first time OMANS Nebraska Oldsmobile company. take up the rods at the rear, the next One of the main difficulties barricading the path to perfection in eight-cylinder engine design was a time at the brake heads, etc. Drain the Vacuum Tank. complication of parts. The Oldsmo-bile engineering department devoted At fixed intervals open drain cock at bottom of the vacuum tank. Usually months to simplifying its engine and it was the "vertical split" which MOTOR CARS a few drops of water and rust flow before the gasoline starts running. eventually brought success. Instead of dividing the cylinder blocks horizontically, it was discov-ered that a vertical division could The fact that it often will not flow Sleeve-Valve A New Studebaker until a wire is run through the drain cock, shows there is foreign matter which may cause carburction trouble. be made in such a way that a V-shaped eight-cylinder motor could Motor Performance Look at the Battery Terminals-Did you ever wonder why the engine FIVE-PASSENGER SPECIAL be assembled more quickly, more does not show the accustomed pep For six years now Stearns has built the Knight simply and with fewer parts than a pair of fours. The two blocks, or why the lights burn dimly or the sleeve valve motor into the Stearns chassis. containing four cylinders each, and

> A BEAUTIFUL Five-Passenger Car with low rakish lines and gracefully tilted windshield, which has many new exclusive features.

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Finished in the very newest shades of dark blue and striking red. It is exceptionally aristocratic in appearance.

This car is really a Five-Passenger Sport Model. It has the snappiness

ignition seems poor? Unfasten the wires and bars at the battery termithe crankcase are made in only two nals and notice if they are clean. They must be clean if current is to flow The righthand block includes four cylinders, half the crankcase and solidfreely. Scrape off with a stick any green or white deposit you see, and spread a little cup grease over the

parts to prevent corrosion. Oil Spark and Throttle Levers.

ly supports the crankshaft and camshaft. The lefthand block is "blank"-that is, it includes four cylinders and half the crankcase, but it bears none of the strains of crankshaft or camshaft. Each half is assembled as a sep-arate unit, the blocks are clamped Do not neglect to squirt oil around the spark and throttle lever connections at intervals. A little of the oil arate unit, the blocks are clamped together by anchor bolts, detachable cylinder heads are bolted to each block and the motor is practically will run down the post and prevent the lever rods from freezing and thus moving at the same time.

Stopping Plug Leaks.

castings.

last three years.

built, except for minor assemblies,

Auto Dealers Make Liberal

There still are a great many engines without detachable cylinder heads and such as wiring. A clean, simple, light and durable engine is the result of this patented engine is the result of this patented these use valve plugs. These plugs design. It is a design that removes often leak. This leaking may be stopthe complication from the eight-version of the complication from the eight-blacking over the threads. Do not use cylinder motor and gives the car owner all the advantages of eight- too much. This may be used at any cylinder power and smoothness hot joint in place of white or red lead without the troubles of traditional and is much better because it does not make removal of the part an hour's eight-cylinder design, as attested by thousands of Oldsmobile owners who have been driving eights for the

Removing Overhead Valves.

In some overhead valve engines valve grinding is made a harder task than it should be, because when the alves are removed the owner dis-mantles the rocker arm assembly. In **Response to Liberty Loan** During the past week Guy L. Smith and E. R. Wilson, two of the leading automobile dealers on the Omaha Auto Row, have been devoting their time to prosecuting the sale of Lib-erty loan boads. At noon Saturday they reported the sale of \$150,000 worth f bonds to dealers and employ-ers along the row.

Many firms which use the rolls of stamps on a stamping machine will

ing these supplies is a gigantic job," the machines twice in order to put on said Postmaster Fanning. "For some time to come people must expect to have to affix the 3-cent stamps by

ers along the row. A very considerable portion of this to the Liberty loan through their amount was subscribed by the em-ployes of the various automobile con-timated that the subscriptions of the cerns. A great many of the dealers auto row now will exceed considerably themselves had already subscribed the reported amount of \$150,000.



Stearns engineers have brought this motor to its

They designed the Stearns counter-balanced

crankshaft-the first one to be used in the United

This union of the Knight principle with Stearns practice accounts for the incomparable smooth-

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ousine, 83875; Limousine Brougham, \$3975; Landaulet, \$3985; Landaule

Brougham, 83985.

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Stearns Four

five-passenger

ness and silence of the car.

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