A few years ago there was a grinding and clashing of tortured metal when the gear-setting lever of an sutomobile was shifted into "first" At the start, or from one speed to another. It was accepted as necessary for a time.

Engineers of the Packard Motor Car company, however, conceived the were rounded off in some manner each time a change in speed was re duired the gears would slip quietly finto mesh with a force on the shifting lever no greater than that which could be applied by the unassisted

A nw car was taken from the plant and given a long trip. After the re-turn Col. J. G. Vincent and other engineers took the car all apart and studied the gears. It was found that the shifting from one speed to another had chipped and ground off the sharp edges of the gear teeth and that they had been rounded off until they resembled the top of the ordinary steam radiator used to heat a home.

An expert in the making of ma chines for the manufacturing of gears was called in to work with company engineers to devise a machine which would accomplish this rounding off operation before the gears were put into a car. The simple looking little achine, no bigger than a baby chair and with a cutter no larger than the tapered end of a led pencil, has been taking the noise of clashing gears out of Packard cars ever since.

This cutter, through the employ ment of a "cam," that important little discovery that has allowed men to make machines which are almost human in their operation, trims off the edges of a gear tooth just as easily and with somewhat the same motion that grandmother used to turn a peeling off the end of a potato. Auto matically it passed about the round May 17 of this year. gear, trimming off one tooth after another until all are done, and when it has finished it signals one man who Wind Resistance Lowers takes care of a whole battery of machines that it is ready to start work on a new gear wheel,

Stutz Territory Grows.

The Stutz Motors company of Callgroup of prominent Pacific coast of the Opper Motor company. business men, has been appointed distributors for Stutz cars in northern California and Nevada, according to an announcement by the Stutz Motor 50 miles per hour and having a cer-Car Company of America, Inc., of tain body shape requires 22.6 horse-

Cadillac Victoria Re-New-Ed

"The Hansen Plan" "A Safe Place to Buy" Open Sunday

Vaudevillians Tour Entire Circuit in Car Bought in East



record of making the entire Pantages

fornia, composed of an impressive gasoline economy," says Mr. Opper dicate that we manufactured and

"Tests and calculations show in different instances that a car driven at 50 miles per hour and having a cer. as compared with October 1. ball power to overcome the wind resis tance alone. This same car driven at 30 miles per hour requires only 4.8 orsepower to overcome wind resispower at 30 miles per hour.

General Motors Produced

"Believing that any actual facts Collins blue

dealey, which played the World the Minneapolis, Winnipeg, Edmonton, ater last week, is out after the unique Calgary, Spokane, Seattle, Vancouver, Bellingham, Tacoma and Portland. circuit without setting foot in a Pull- They are now swinging back along the circuit to New York

The team travels in a Studebaker While in Oniaha they congratu-coupe, in which it left New York on lated O. N. Bonney, local dealer, on the performance of the car under all They visited Detroit, Toronto and sorts of road and weather conditions

tending to throw light on business conditions will be helpful, it may be Mileage, Says Reo Dealer interesting to point out that the "Amazingly few motorists pause to schedule of General Motors for Oc- in all the churches and the war vetconsider in these days of good roads and refined automobiles that they are driving faster than they did five years (Chevrolet, Oakland, Oldsmobile and ago with a consequent sacrifice of GMC truck; Preliminary reports in sold about \$7,500. Cars on hand on our own account stood at 18,986 as

Town Brougham Car.

First models of the New Peerless five-passenger town brougham, the lary will entertain the legion men and international mountain race on the addition of which to the company's their wives and families at an oyster Klausen hill in the Swiss Alps, acline of attractive body styles was ansupper. tance. Another car with a different line of attractive body styles was anproduction and are being shipped to distributors. This latest New Peerless creation, built complete in the Closed C a r Sales body shape requires 10 horsepower at nounced last week, have come through 50 miles per hour and only 2.5 horse-production and are being shipped to less creation, built complete in 87,500 Cars in October practical utility of a small capacity enclosed car with the luxurious com-Alfred P. Sioan, jr., president of forts of a sedan. It is sure to be an General Motors, made the following object of admiration wherever seen. Enclosed Drive Limousine statement in relation to current con- It is a beautiful design and will be J. H. Hansen Cadillac Co. ditions in the motor car industry, as immediately singled out in any gathering of automobiles as a car of quality and distinction. The color is

National Father and Son Week, November 11-18

DODGE BROTHERS COMMERCIAL CAR

Merchants are growing more and more particular about the appearance of the delivery cars they send to their customers'

The reason is perfectly clear to anyone who has ever analyzed his impressions on seeing a handsome, dignified delivery car draw up in front of his own, or his neighbor's door.

Good appearance is one of the three foremost attributes of Dodge Brothers Commercial Car. The others are low upkeep cost and long, dependable service.

Panel Commercial Car \$995 f. e. b. Detroit; \$1095 delivered

O'BRIEN-DAVIS AUTO CO.



Plane Flight Lost Recital For Pianists

Artists Attempted to Fly From Los Angeles to Frisco; Lost in

Fog.

Guy Maier and Lee Pattison, pian ists to be heard in Omaha in piano recital at Brandels theater on Thursday evening. November 22, under the auspices of the Tuesday Musical club with Emil Telmanyl, Hungarian violinist, have had the unusual experience of being lost in a fog 10,000 feet above the Pacific ocean,

In an effort to keep an engagement

for a recital on a Sunday afternoo in San Francisco the day after on given in Los Angeles, it was found necessary to make the distance by airplane. They started Sunday morn ing at six. They cruised along at the rate of 90 miles an hour, a dense fog ompletely obliterating the land and sea two miles below. After five hours on the installment plan meet their pay wandering in the air the plane The dive was made successfully. Flying a few hundred yards from made a two-day study of the method the ground, suddenly a mountain comed up out of the mist and a forced landing was made. The plane figures showing that of 2,000,000 peoapped over and it took three men to ple who bought cars in the past 12 right it. The two planists decided months on the installment plan over o trust to their feet and shouldered 99 per cent met their payments on their suitcases for a start across time or in less than 30 days. He de-

ook them and they climbed in again. credits, It was soon after that they scraped he side of a water tower and came to earth in a cemetery. They decided that trains were good enough for them in the future. They lost the opportunity for their first San Fran-

To Celebrate Day

in Appropriate Way Shenandoah, Ia., Nov. 10 .- Sunday vill be observed as Armistice day in Shenandoah with appropriate sevices erans will attend the Congregationa! church in a body. But the people of Shenandoah wish to add to this by an observance on

The banks will close all day, and the business houses close from 1:30 The Shenandoah-Red Oak football game will be the attraction of the afternoon. After the game the Rotary club of Red Oak and the Kiwanis club of Shenandoah will have a sup- Marmon stock touring car, carrying

Continues Most Popular of Pierce-Arrow Models.

This is the year of the closed car. That at least is the apparent lesson which will be established by the sales figures of 1923. And the finer the car the greater the demand for the enclosed type of body. The sale of Pierce-Arrow enclosed models has been over 64 per cent of the entire production this year, according to L E. Corcoran, general sales manager of the Pierce-Arrow Motor Car com

"While the sale of enclosed models naturally predominates at this time of year," states Mr. Corcoran, "the surprising part of the prevailing trend to the closed car is that it composed almost a major part of the June, July and August orders. This trend is not regarded as a fleeting tendency, but as a permanent buying policy on the part of those people who have come to regard their auto-mobile purchasing as an investment and naturally find the enclosed car the one that is productive of the most pleasure and service, as well as the maximum comfort."

Closed Cars Popular.

"Old King Winter no longer put blanket on the automobile bus as in earlier days," says O. A. Willson of Andrew Murphy & Sons com pany, local dealers in Durant and Star cars. "Before car heaters and the mod

ern curtains that open with the doors were invented the automobile owner could not comfortably ride in frosty weather, and, furthermore, motor ca engines did not always perform well at zero temperature.
"Now all that has changed. The modern automobile, if it is rightly

weather and so comfortably can it be fitted for winter that it is really a pleasure to ride. "The closed car, too, has playe great part in that change. The fin est coach-and-four of olden times could not rival the comfort and dignity of the modern closed car. Well protected from the elements, warme by the car heater, still a generou

expanse of plate glass window makes

made, performs well in all sorts of

the car as light and cheery as an open model and excellently ventilated "The closed car will never entirely displace the open models, but it is rapidly gaining. Manufacturers find the demand for closed models nearly 50 per cent of production and still climbing."

500 Oaklands Daily.

Pontlac, Mich., Nov. 10.-Exten sive alternations and new machinery equipment which have resulted in practically rebuilding the entire in terior of the Oakland Motor Car com pany factories have finally finished.

The machinery and alteration have involved an outlay of approxi-mately \$2,000,000, which is in addi-

tion to the new \$2,000,000 Fisher Body corporation factory completed month ago adjacent to the Oakland factory to build Oakland bodies. This outlay of \$4,000,000 gives the Oakland plant a capacity of 500 cars a day, twice its previous capacity At the present time the company har reached an output of 360 cars daily which is above the peak per of the banner month of 1922.

New Kind of Metal Lessens | Red Cloud Fire Department

Weight; Increases Power The results anticipated by the Hupp manufacturer with large distribution the kindness of D. H. Kaley of this necessary to keep them in good standto combine duralumin connecting city, the Red Cloud fire department ods with aluminum-copper pistons, intends uniting with the state organhave been confirmed in tests, which show that this combination, plus the

Duralumin, as its name implies, is metal more durable than aluminum It is composed of aluminum, manga ese, silicon, copper and iron. These tougher metals, fused with aluminum in their proper proportions, re-sult in a product that has even greater strength in compressibility steel, and one admirably adapted to usage in the modern efficient motor car, inasmuch as it materially lessens weight without decreasing strength ncreases power and adds to economy and smoothness in operation.

counterbalancing crankshaft, is re-

sponsible for a number of the great

er performing abilities in its nev

Auto Buyers Are Prompt

in Meeting Payments South Bend, Ind., Nov. 10 .- Accordng to Arthur J. Morris, founder of the Morris plan banking system, mo tor car owners who buy automobiles ments with remarkable promptness. ade a nose dive two miles down. Morris, who addressed a gathering of bankers from east and west who have used by the Studebaker dealers in handling this class of business, gave clared that the delinquency and loss They were soon picked up by a ratio from these sales was so low as iriver in a flivver. They rode as to compare favorably with any other far as Lebec when the plane over- class of commercial or industrial

> Proper Spark Plugs Aid in Starting Cold Motor

One of the motorist's chief difficul ties in cold weather is in starting his engine. Though quick starting is largely a matter of carburization and getting gasoline into the cylinders in mbustible form, it is also true that spark plugs play a considerable part. How to make difficult starting easy. is related to spark plugs, intimately concerns the question of fouling. Proper design of the gap setting is perhaps the biggest assistance that efficient spark plugs give. The "bend' used in all Champion plugs facil tates quick starting for two reasons -it presents an ideal surface for the

Marmon Wins Race.

electrical discharge across the gap, and prevents oil from lodging at this

important point

Competing against many of America's and Europe's best racing cars, a per at the Hotel Mizpah. The auxil- standard equipment, won the 1923 'Grand Prix of the Alps," and it is

Special Dispatch to The Omaha Bee.

ization of volunteer firement. The de- | Airplanes From Lincoln partment has wanted for some time to Join State Organizations to join this organization, but has een handicapped by lack of funds. Red Cloud, Neb., Nov. 10.-Through Mr. Kaley has offered to pay all fees

Make Trip to Clarinda Clarinda, Ia., Nov. 10 .- Four airplanes from the Lincoln (Neb.) factory made an advertising trip to Clarinda, spending the day and night at Lake Bee Want Ads Produce Results. 'Crabill and demonstrating flights.

Coupe-Sedan

Standard



The Difference is Finish

The famous Willys-Knight Coupe-Sedan is now available in two finishes; De Luxe, in rich blue, nickel trimmed, with black superstructure a 1 running gear, at newly reduced price; and Standard, by request, entirely in black, with washable Spanish long grain upholstery, at a still greater price saving. Doors front and rearno seat climbing! A demonstration will reveal the reason for this fine car's great popularity.

Other new low prices: 5-pass. Touring \$1175; 2-pass. Roadeter \$1175; 7-pass. Touring \$1325; 5-pass. Country Club \$1635; 5-pass. Sedan (Standard) \$1795; 5-pass. Sedan De Luxe \$1895; 7-pass. Sedan \$1995; all prices f. c. b. Toledo. We reserve the right to change prices and specifications without process.

WILLYS-OVERLAND, Inc.

2562 Farnam Street Phone HA rney 0353 Factory Branch—Open Evenings

CITY DEALERS Byron L. Fowler Opocensky Brothers 5134 S. 24th Street Folson Auto Co. Fort Crook 5915 Military Avenue 51 Wickland Motor Co. Council Bluffs Overland Co.

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On the Finest Super-Six Chassis Ever Built

Heretofore a moderate-priced closed car has meant an inferior chassis. Now at a saving of hundreds of dollars you buy in HUDSON a car of positive reliability, chassis excellence and finest performance.

These are the lowest prices of all time on the Hudson Super-Six. They make both the Sedan and the Coach the most outstanding values in the world.

KILLY MOTOR CAR CO.

AT lantic 7461

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Omaha, Neb.