HCW PACKARD PUTS HEAT IN THE GAS

Tale of the Thermostat is Story of Science of the Automobile Engineers.

SHORTEN THE INTAKE

The present grade of motor gaso line and the old methods of carbure

The present grade of motor gaso-line and the old methods of carbure-tion do not work well together. The engineering problem, stated simply, is to heat the gas which comes from the carburetor to the cylinder from the carburetor to the cylinder leads. Now, contrary to general impression, gasoline is not a good conductor of heat. Just because in certain circumstances gasoline departs this earth with a bang most of us have got the idea that it is quickly affected by heat. But that's surface conclusion. The fact is, it is rather difficult to heat the tiny globules of gas that are sprayed out from the carburetor jet. carburetor jet.

One Trick.

One Trick.

In the new twin six-engine Packard engineers have handled this problem with much success. They have shortened the gas intake passages so shortened the gas intake passages so the gas coming from the carburetor has less distance to travel—and dis-tance always means cooling influence, unless otherwise provided against. The hot water that is being expelled from the cylinder jacket is put to warning the gas as it comes from the early state.

The water that is poured into the radiator top is circulated around and among the cylinders to cool them. In its contact with the fast-working cylinders it absorbs heat from them and itself becomes a stream of hot water. Then, it carried out to the radia-Then it is carried out to the radia-tor and there cooled for its return trip to the cylinders. On its journey back to the radiator it is at maximum back to the radiator it is at maximum heat just as it comes off the cylinders. While it is at this maximum heat it surrounds the gas intake pipe, and the incoming gas gets the benefit of a nice warm jacket.

The Thermostat.

A little instrument called the thermostat, situated at the radiator inlet.

mostat, situated at the radiator inlet, diverts the water through a by-pass until it reaches the required tempera-ture—then automatically allows it to

ture—then automatically allows it to pass through the radiator. The location of the thermostat at the outlet of the motor circulation system makes it possible to control definitely the temperature of the circulating water. The transforming of the gas intake into a short, hot conduit, with separate passages leading to front and reat cylinders, is the Packard answer to the gas-heating problem. And, of course, it is the more marked in its results because of the nature of the low-gravity gasoline.

Pullman Plans Big Exhibits at Shows

Plans are being made by the Pullman Motor Car company for elaborate exhibits at the New York and Chicago shows, January 6 to 13, and January 27 to February 3, respectively.

The exhibits will include the full 1917 line of four-cylinder models, consisting of the five-passenger touring, two-passenger roadster and three-passenger roadst two-passenger roadster and three-pas

two-passenger roadster and three-passenger roadster, which have already won popular approval in the "understhousand-dollar-class."

The Pullman exhibit at the New York show will occupy a prominent position on the main floor of the Grand Central Palace, this recognition having been awarded the Pullman because of its startling increase in sales and production in the last year. At the Chicago show the Pullman will be accorded the same acknowledgement of its success, a leading space in the Coliseum having been assigned to the company's exhibit.

Detroit Electric

Announcement has been made of the opening in Omaha of a branch of the Detroit Electric company. The branch will be located in the Blackstone garage, under the management of E. M. Battom.

Mr. Battom comes to Omaha from the Kansas City branch of the Dethe Kansas City branch of the De-troit Electric company, and seems quite enthusiastic regarding the Oma-ha field. Kansas City has been a gar-den spot for the electric car men, and Battom says Omaha looks just as good to him.

The Detroit people are making an electric car which will sell for \$2,175. This, price is accomplished by the manufacture of a standard model. In most cases the electric car has been

most cases the electric car has been designed to meet the individual tastes, allowing a very wide range of selection in body designs and interior

Remodel Part of Studebaker Building

A portion of the second story of the A portion of the second story of the Studebaker branch building is being remodeled and converted into a show room for used cars. The show room will be extremely well lighten by big windows and a stairway from the main floor is under construction now. In speaking of the remodeling, E. R. Wilson said:

"The used car business is part of

'The used car business is part of our business just as much as the sale of new cars. We go to unlimited ex-pense for a beautiful show room for new models, so why not spend a little to properly display used cars?"



Did Youpr Battery ? DELCO-EXIDE SERVICE STATION 024 Farnam St. Omaha, Nel Phone Douglas 3697. FREE BATTERY INSPECTION



Regal Plant Not Sold, WOMAN DRIVES TO As Was Reported, Says the President

Notice has appeared in the automobile trade papers to the effect that the Fisher Body corporation of Detroit has purchased the factory of the Regal Motor Car company. "This is an error," says Mr. Haines,

president of the company.

"The changes in our plant that gave foundation to this story have been made for one reason only—to increase

made for one reason only—to increase efficiency and better our production. Those who know the Regal plant realize that it is pretty well scattered over a lot of ground.

"As we have now reduced the number of models we now build, and as we have greatly increased the efficiency of our manufacturing system, it was not prepressary for us one all we could not see that we would need this building for a long time to come, we recently sold this one building to the Fisher Body company, and this is the foundation of the erroneous re-port published about the sale of the Regal plant. "The Regal plant, as it stands to-

"The Regal plant, as it stands to-day, covers nine acres of floor space. Our production this year will be be-tween 7,500 and 10,000 cars. We have this year a much more efficient or-ganization and plant, and what is the best Regal car we ever made—a car that is acknowledged to be the best in its class.

"We have big plans for 1917, that are now in process of carrying our

are now in process of carrying out, and both dealers and the public are going to recognize that the 1917 Regal is one of the livest and best motor car propositions in the coun-

Something on How to Care for the Battery

"Perhaps the nearest approach that man has come to the secret of per-petual motion is typified in the elec-trical system of an automobile. Here we have a chain the links of which

"When the motorist presses the starting button, the storage battery sends the charge of electricity along the line to the starting motor, which spins the engine. As soon as the engine has started, it begins to turn the electrical generator, which puts back into the battery the current which the starting motor and ignition are tak-out out.

Hamrick softened her criticism somewhat by saying: "The car proved so easy to drive and behaved so nicely that maybe I shouldn't have said anything about the bad roads."

Mrs. Hamrick had her Franklin looked over twice at cities en route but at no time did anything develop on the road to give trouble. More starting motor and ignition are tak-out out.

starting motor and ignition are takout out.
"In the booklet 'Your Electrical
System and How It Works' the Willard Storage Batery company has succeeded in putting into language clearly understandable by the laymen the
mort important details of the electrical system.
"This booklet not only tells what
the electrical system is and how it
works, but it also tells how the system should be taken care of, why the
simple steps in battery care are necessary, and has besides a double-page
illustration or diagram of the electrical system showing exactly where trical system showing exactly where the current goes and where it comes from."

Goodrich Company Gets Good News of Silvertowns

Smiles wreath the faces of the coodrich company officials these days. The following telegram is responsi-

ble:
"Silvertowns win Vanderbilt cup
"Silvertowns win Vanderbilt cup so show the Pullman will be the same acknowledgement coess, a leading space in the having been assigned to the sexhibit.

it Electric

Opens in Omaha

The same acknowledgement coess, a leading space in the having been assigned to the sexhibit.

Santa Monica speed seventy-eight miles per hour. Regular joyride for first four cars. Resta's Peugeot first, Cooper's Stutz second, Weightman's Deusenberg third. All on Silvertowns. Resta leads in world's championship contest."

COAST FROM DENVER

Mrs. C. T. Hamrick Pushes a Franklin Through Bad Roads Without Any Trouble.

FORDS THROUGH STREAMS

They told us when leaving Denver five weeks ago we would never get through to Los Angeles; that such a long trip by women was too risky, but here we are and none the worse for our experience. And we didn't need a man. Our car, a Franklin Roadster, performed beautifully. A mechanic's services never were re-

This is the statement that Mrs. This is the statement that Mrs. C. T. Hamrick of Denver, Colo., made to a Los Angeles newspaper man after driving, with Miss Blair, another Denver young lady, from the Colorado capital up through Wyoming to Yellowstone National Park, thence across Idaho and Washington to Seatle, south through Oregon into California and down the coast to Los Angeles, a total distance of at least 2,000 miles.

The women tourists found the go-

The women tourists found the go-The women tourists found the go-ing good from Denver to Yellow-stone, but after leaving the Park for Bozeman, Mont., they struck roads through the Gallatin Pass that re-quired chains on all wheels. Also be-tween Butte and Missoula, Mont, the muddy roads with their sharp grades made going difficult, especially in crossing the Neggerhead Hills, Camel's Hump and the Bitter Roat crossing the Neggerhead Hus, Camel's Hump and the Bitter Root

Camel's Hump and the Bitter Root Divide.

In commenting on the road through Bluett's Pass approaching Wenatchee, Wash, Mrs. Hamrick said: "The road is exceedingly narrow and the turns so sharp that you have to back up several times before you can make them. There are no turn-guts and if we had met another can I don't if we had met another car I don't know what we would have done."

Ford Many Streams.

Going south from Seattle the tour-ists found it necessary to ford or ferry

"Perhaps the nearest approach that man has come to the secret of perpetual motion is typified in the electrical system of an automobile. Here we have a chain the links of which are the storage battery, starting motor, charging generator and the motor of the automobile," says Elmer Risengren of the Nebraska Storage Battery company.

"When the motorist presses the starting button, the storage battery sends the charge of electricity along the line to the starting motor, which

on the road to give trouble. More than 2,000 miles over mountain roads such as were encountered was a real test for both women and car. That the women thoroughly enjoyed their trip and found the car so comfort-able for all-day driving, exemplifies trip and found the car so comfort able for all-day driving, exemplifies the enormous influence weight reduction exerts in making a car easy to

AUTO SPRING INSURANCE

We guarantee to replace any auto spring which breaks after being equipped with G. L. W. Spring Oilers.

Ask Your Dealer.

G. L. W. Spring Oiler Company

Dodge Brothers

ROADSTER

Its goodness is alone responsible

for the unusual demand that

has existed from the beginning.

At no time since the first car was

built has the demand been satisfied and yet in point of sales Dodge

Brothers stand among the first five

Now the Omaha Auto Trade Association

The Omaha Automobile Show asociation is no longer to be known by that name. It is henceforth to be the Omaha Automobile Trade association.

Omana Automobile Trade association.
Its scope is to be enlarged, in the
matter of its activities and in the matter of membership.

This was decided upon at a special
meeting Friday when the articles of
incorporation were changed. The
amended articles are to be filed the

coming week.

Under the new order all auto supply, accessory and service men are to be included in the membership. The association is to take an active par in good roads movements, and in all movements that affect the automobile

Haynes Mentioned in Bible As One of Hill Climbers

The man at the wheel: "Say, Bickens, did you know that the Haynes 'Light Six' was mentioned in the Bible?"

The man beside him: "No. old man; how's that?"

The man at the wheel: "The old testament says, 'She went up on high."

Cold Weather Hits Auto Batteries Quite Hard

R. C. Smith, manager of the Delco Exide service station, says many bat-teries were frozen during the recent cold snap. He attributes that fact to

cold snap. He attributes that fact to owners' neglect. "Remember," he says, "that a bat-tery in a healthy condition is only 90 per cent efficient. In cold weather as possible without direct injury to the battery. By adjusting the third

The Franklin **Enclosed Cars**



THE average motor car locks up your investment twelve months in the year, and does only about nine months'

Any type of Franklin Ra-closed Car will take you any-where you want to go, city or country, 365 days in the year.

As you know, the Franklin is a great cold-weather car. Direct-air-cooled-no water to freeze.

Its scientific light weight carwhere the average motorist would not think of driving the everage car.

And for summer driving or touring, Franklin Enclosed Cars, with their perfect ventilation and protection from sun-glare and dust, have many advantages.

Whether or not you are think ing of a new car any time soon, by all means get acquainted with the utility of Franklin Enclosed Cars.

Franklin Motor Car Co., Omaha R-U-2-B-1 of 60

2205 Farnam St. Phone D. 1712.

brush and the regulator spool of the Delco generators you get safety in-surance, provided the adjustment is made by an expert. Our Delco serv-ice is free of charge and efficient." Lucky Farmer Can't

sing Hymn of Hate of the mines that we can go to them and haul it away.

Our greatest expense is for gasoline for automobiles, but we must have

Federal Rubber Company
Dividend on Preferred Stock
A meeting of the board of directors of the Federal Rubber company was held in the general offices of the company at Cudahy, Wis., November 10, at which meeting the regular dividend of \$1.75 per share on the second preferred stock was declared, payable
November 25, 1916

Sing Hymn of Hate

The high cost of living has not hit E. B. Jeffers, a Wyoming homestead or from near Moorcroft. Mr. Jeffers is in the city for a few days and in telling of what he has done during the last season, he says:

"This year I sold my wheat at \$1.34 per bushel; potatoes, \$2.50 per 100 pounds; cream, 34 cents per pound; dressed hogs, \$11 per 100 pounds.

"Coal does not cost us much, as and flive right and take Dr. King's New Discovery; in use over forty years Guaranteed. All druggists.—Advertisement.



he drove his coach and fouror his coach and twelve.

The mode and appointments of the vehicle-the 'cut' and trim of the harness—the number and size of the horses—even the weight and length of the whip-all had to be just right.

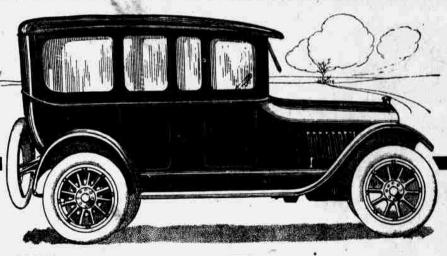
during the entire motorepoch, the Packard has satisfied. Style-comfort-safety-

stamina-it achieves more than ever, now. And the mighty Twin-six

motor assures the heavier enclosed cars ample power for every emergency in city He was out before the traffic or on country roads. Ask the man who owns one

See the Orr Motor Sales Company, Fortieth and Farnam Streets, Omaha. Branch at Sioux City. Iowa.





Winter (Sedan) Tops Detroit Weatherproof Tops

Little need be said regarding the comfort and protection offered by the enclosed car. Those are accepted facts. The main thing is the additional cost and whether the top will fit perfectly without injuring the body.

The cost of this top is so low that anyone can afford it. It is beautifully designed and the workmanship is perfect. We can attach the top to any of the following models:

Ford-Touring or Roadster. Buick-Model D-45. Overland-Model 83 Chevrolet—Model 490. Chalmers—Model 6-30. Maxwell-Any model. Cadillac-1916 models. Chandler-1916 models. Hudson-Super-Six.

Phone Doug. 853.

Dealers The motoring public this year demands more comfort for winter driving, and these tops are selling very fast. We are distributors for the entire state of Nebraska and part of Iowa, and have some very good territory open in Nebraska and western Iowa. The demand is great. Why not cash in on it?

Winter Top Company

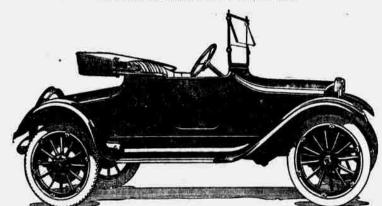
C. W. FRANCIS, Manager.

2216-18 Farnam Street,

Omaha, Neb.

It will pay you to visit us and examine this car. The gasoline consumption is unusually low. The tire mileage is unusually high. The price of the Touring Car or Roadster complete is \$785 (f. o. b. Detroit.) The price of the Winter Touring Car or Roadster complete, including regular mohair top is \$950 (f. o. b. Detroit.)

producers in the world



MURPHY-O'BRIEN AUTO CO.

1814-18 Farnam Street.

Phone Tyler 123.

Omaha, Nebraska.