

CHRYSLER PISTONS ADD TO CAR'S LIFE

Combination of "Tungtite" Rings and Invar Strut Pistons Latest

One of the outstanding innovations in the illustrious New Chrysler "72" cars, which were presented to the public a few weeks ago and are said by company officials to be rolling up an unprecedented sales record, is the use of "Tungtite" piston rings, employed in this model for the first time in Invar-Strut pistons, the engine development recently perfected and announced by Chrysler engineers.

This combination of pistons and rings is said to be one of the most important steps taken in the automobile industry during recent years toward perfection in internal combustion engines.

Describing the new combination Chrysler engineers point out that the conventional piston equipment includes two or three compression rings and an oil control ring. These serve a double purpose. They prevent leakage of compression created by the explosions of gasoline vapor in the combustion chamber, the source of the power impulse that drives the piston down. They also promote lubrication of the cylinder walls, without passing excess oil into the combustion chamber, where it would be "cracked" by the high temperatures and hot gases and decomposed into the black carbon residue which is injurious to bearings and lowers engine efficiency.

In their "72" model, Chrysler engineers make use of a piston 1-8 inches long, carrying five rings, four of which are for compression and are of "Tungtite" construction. These "Tungtite" compression rings, together with the fifth or oil control ring, practically double the ring surface area, according to the engineers, the new combination brings added assurance of satisfactory performance, particularly in the Red Head engine with which Chrysler led the way this summer into the new high compression era of motoring.

One of the important features is said to be in better control of heat. Heads of the new pistons have been designed in such a manner that an increased bulk of aluminum alloy promotes quicker and more complete dissipation of heat absorbed by the heads to the enlarged ring surface.

The four "Tungtite" rings are tongue-and-groove shaped and are placed in pairs so that oil is entrapped in the grooves and forms a substantial capillary joint and seal. The entrapped oil and the cast iron rings, being both good heat conductors, act with the aluminum alloy of the pistons to effect a far more complete transfer of heat to the water-cooled cylinder walls than was possible by old-style ring practice.

With the conventional three-ring equipment temperature at the center of the average thin aluminum piston head rises to about 550 degrees after half a mile of fast driving with modern high compression engines. With the use of Invar-Strut pistons and "Tungtite" rings, however, maximum temperatures do not go above 375 degrees, as determined by exhaustive tests made with the "72" engine under actual driving conditions.

Among other advantages the new pistons and rings are said to have demonstrated in practice are better compression and together with more uniform compression, resulting in more uniform power impulse, steadier flow of power and minimization of vibration at all speeds.

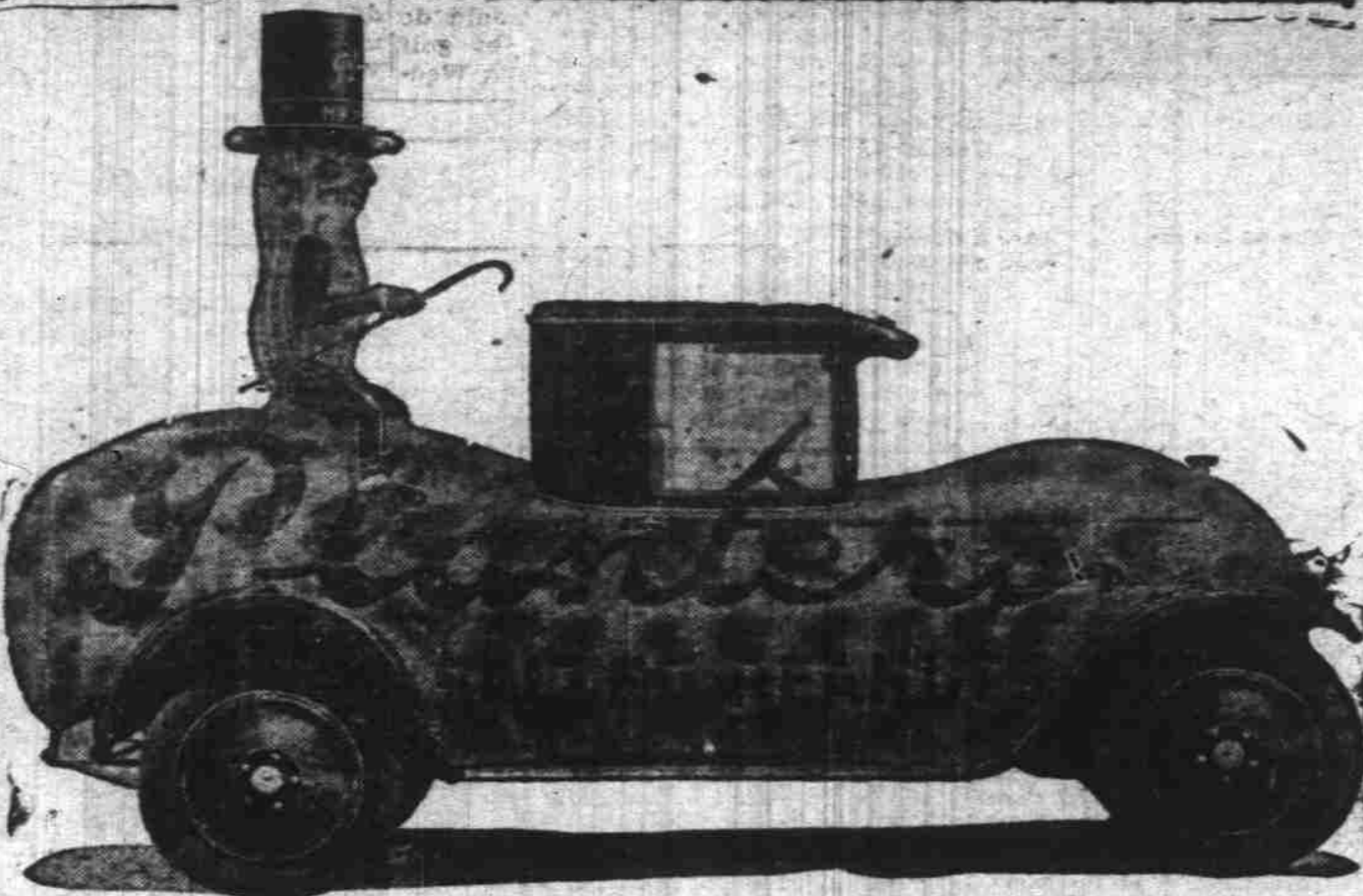
Another important result along with the reduction of compression losses, of "blow-by," is that the oil cannot be blown out of the grooves, as is frequently the case with rings ordinarily used. This is due to the oil-trapping arrangement of the tongue-and-groove ring structure. The maintenance of the lubricant in the ring structure not only increases heat transfer and lowers operating temperature but enables the ring faces to ride constantly on a thin film of oil, avoiding metal-to-metal wall contact, friction and cylinder wear. In fact, cylinder wear, according to Chrysler engineers, is reduced about one-half by the new combination and the life of the ring equipment is twice as long.

Grand Prize Offered For Best Paris Gown

PARIS, (AP)—The well-known "Parisienne" now has an annual \$50,000 Grand Prize of Elegance. Leonard Rosenthal, the pearl merchant, put up the money, with the understanding that the fifty 1,000-franc notes would be given by the winner to fifty little, hard-working midwives in the dressmaking shop that made the prize gown.

"Other countries, larger than ours, have massiveness and strength," says the announcement of the prize. "They are the roots of the world. France is the flower." It goes on modestly. "Her mission is to produce, in every line, the rare and exquisite, whether an ocean liner, a woman's dress, a rose or a perfume. The Parisienne is the supreme expression of this hothouse culture which will not flourish alone. It must be helped a little."

Unique Truck Body Makes Peanut Family Sit Up and Take Notice



This is one of a fleet of automobiles fitted with unique bodies which are demonstrating unusual ability to attract attention in connection with a nation wide campaign to familiarize more people with a well known brand of salted peanuts. The cost of constructing each of these special all steel bodies exceeded the cost of the Dodge Brothers chassis selected to afford dependable transportation for the rolling displays.

To make an automobile body reproducing the shape of a peanut and sufficiently rigid to withstand rough usage was an interesting

problem for the engineering staff. The body frame is of one inch angle iron securely riveted and welded. The panels are of 20 gauge steel with the indentations carefully made by hand, no two being exactly the same shape and size. The opening at the front through which air passes into the radiator is covered with heavy wire screen securely welded in place.

As the top of the hat of Mr. Peanut, who sits astride the body, is ten and a half feet above the ground, hinges are provided in order that he may lean back when

entering a garage or passing under a "low bridge".

In order to protect the samples of salted and chocolate coated nuts carried, the loading compartment in the rear of the body is insulated with a 1/4-inch celotex lining. Special concealed hinges are used in order that the lines of the body may not be broken by the loading space cover.

During the painting special care was taken in shading the indentations to show their depth and provide the closest possible reproduction of the appearance of a large peanut.

motor bus service in the French Alps because this is more rapid than horse service and less expensive than rail operation, according to Mr. Auguste Pourcel of the P. L. M. Railways, in a recent report to the International Chamber of Commerce. Mr. Pourcel states that P. L. M. Railways used 22 motor lines in 1911 and are using 156 motor lines today.

Leadership in the use of cars is held west of the Mississippi. Of the ten states which rank first in respect to the number of cars in relation to population, eight are west of this river. California heads the list with one automobile to 3.11 persons—Iowa, Florida, Nevada, Oregon, Nebraska, Kansas, North Dakota, South Dakota, and Michigan following in the order named.

Red Ink Means Death On One Scrap of Paper

LONDON, (AP)—One of the most gruesome objects in England is merely a sheet of paper.

It is affixed to the mantelpiece in one of the secretaries' rooms in the Home Office.

It is the list of names of men and women awaiting execution after their sentence of death. After their names is the date fixed for their end.

As other names are added at the bottom, names at the top are crossed out with red ink. They then become the names of persons who no longer exist.

The list stands in the Home Office because the Home Secretary, acting for the King, has the right of reprieve and commutation.

Revival of Doughnuts For U. S. Legionnaires

PARIS, (AP)—There is a doughnut revival in Paris in honor of the American Legion's coming. So far as the Frenchman is concerned doughnuts are as foreign to France as they were the day the Salvation Army introduced them during the war. Nevertheless the cafes and restaurants catering to tourists are displaying such signs as "Tel on a les Doughnuts" — doughnuts here — or "Doughnuts Americains." Not all the doughnuts consumed by the Legionnaires, therefore, will be served by Salvation Army Ladies.

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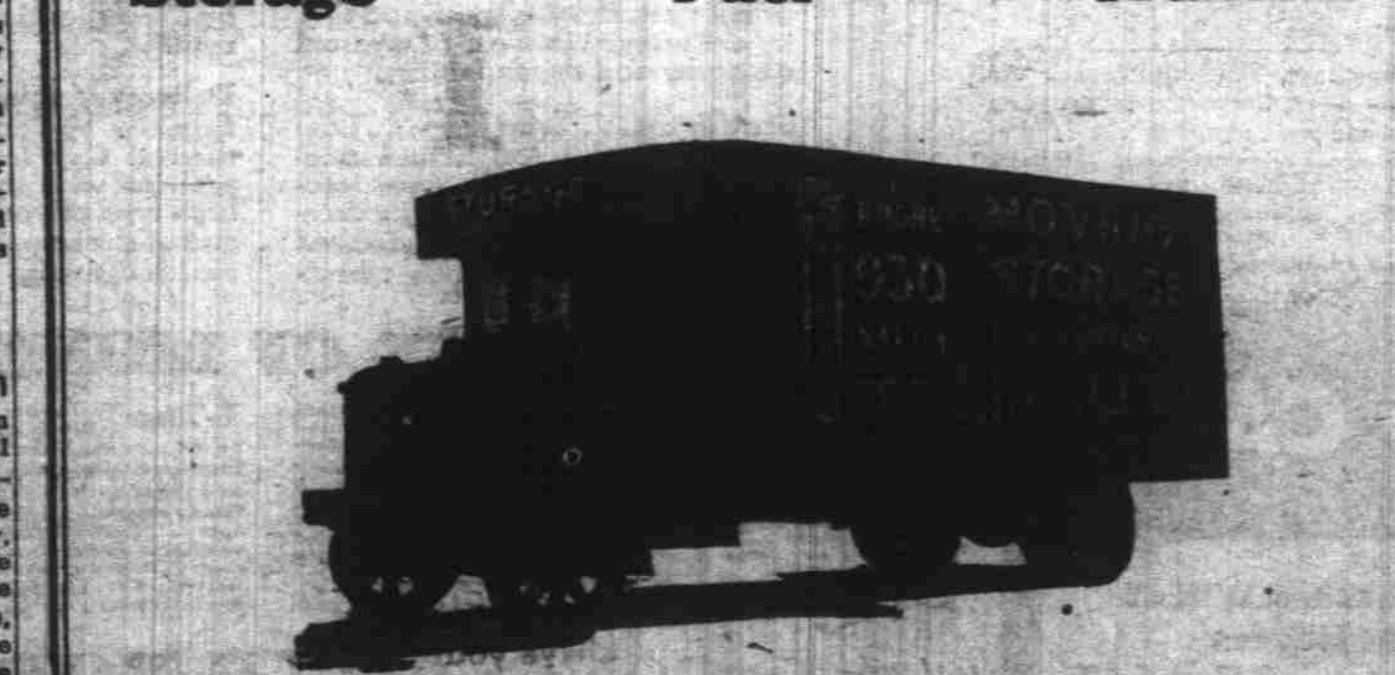
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BODIES OF TRUCKS BUILT BY EXPERTS

Industry Has Developed From Hand Labor Shop To Large Scale Factory

The building of bodies for motor trucks has developed in the last seven years from the corner wood-working shop where platforms and tops were, at considerable expense, cobbled onto chassis to suit the owner's fancy, to a great industry turning out a large variety of units in huge quantities at very low cost. The truck user, realizing the advertising value of his trucks on the street, wants a good-looking vehicle as well as one of durable and convenient design so that the popular motor truck of today is smart and handsome in appearance; the product of the most artful designers and craftsmen.

Graham Brothers, the truck division of Dodge Brothers, Inc., devote a huge plant of more than 400,000 square feet of floor space at Evansville, Indiana to the building of truck bodies for their trucks. In this plant, a corps of engineers, designers, experienced body builders and artist craftsmen that would be a credit to a fine passenger automobile body plant has been constantly at work for years developing the bodies for Graham Brothers trucks to their present high point of refinement, durability and smart lines.

Conditions at this plant are close to ideal for economical production of high quality truck bodies. Close to the great southern hardwood forests, Evansville has first choice of the finest timber at small cost for transportation. Coal mines are located within a mile of the factory and the Ohio river furnishes all-water transportation of steel from Pittsburgh. But probably the chief advantage is the presence of a great force of workmen who are masters in the art of woodworking and cabinet-making, having grown up in the carriage and furniture factories for which Evansville is noted as a chief center, second only to Grand Rapids.

Seventy-five per cent of the workmen in Graham Brothers' Evansville plant own their own homes and the annual labor turnover is practically negligible due to the high character of the men and the excellent conditions under which they work. Only the best

workmen are employed and long faithful service is the rule. There has never been a strike or any labor trouble since its establishment in 1917.

In operation, the plant is a fine example of the most modern quantity production methods but the speed is that of the skillful craftsman—rather than the ordinary "hurry-up" type. The factory has its own sawmill and forge shops in which quality can be controlled from the very beginning of body manufacture. The fact that the bodies are designed and built expressly for Graham Brothers chassis assures correct engineering and weight balance in the complete truck, which are factors of great importance to satisfactory and economical service.

Accused of Laxity Over Vaccination Enforcement

BERLIN, (AP)—Because of failure to enforce the anti-smallpox vaccination law as rigidly as before the war, officials of the Prussian board of health have come in for reprimand by the Minister for Public Welfare. In an edict the minister criticized the extraordinary number of cases of evasion of the law that had come to his notice, and the disproportionate number of cases of vaccination on record compared to the total number of inhabitants.

The edict enjoins all officials charged with the enactment of the regulations in question henceforth to enforce the prescribed compulsory vaccination law to the very letter.

The Bohemian Girl' Put Into New Modern Dress

LONDON, (AP)—"The Bohemian Girl" has appeared in London in modern dress. The book of the old opera has been entirely rewritten and

brought up to date for the Carl Rosa Opera Company. But "Heart Bowed Down," "I Dream I Dwell in Marble Halls" and other famous arias have been retained as they were in the original opera. The book of the old opera has been written nearly a century ago by Balfe, the Irish composer.

Most Tire For Your Money

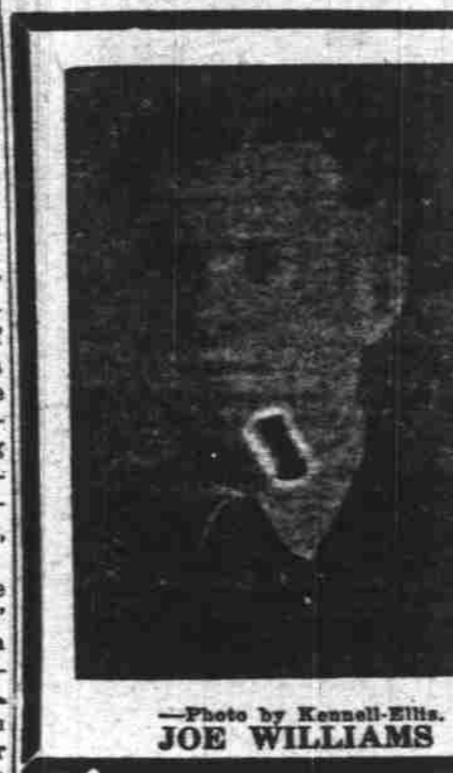
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