### Horsepower of **Engines Proven** by James Watt

Scientist in 1765 Had to Show This word is a combination of the Comparative Strength of His Novel In-

vention.

By E. A. DEWATERS. "horsepower," as it applies to power and measuring instruments. producing mechanism, we must go Electrical horsepower is measured back to the year 1765. At that time in watts, one mechanical horsepower engine to a degree that made it practical and he was trying to build up a market for it. Like all inventors, minute. Watt'found a great deal of opposition to his efforts, and in order to stimu-

Watt knew that he would have to against the power of horses, because with any other form of power. His first task, therefore, was to find out words, just how much work a horse ould do in a certain length of time. Long Series of Tests.

Watt conducted a long series of ests, and as a result he ascertained that the average work horse could Overland Price lift a weight of 150 pounds two and one-half miles per hour for 10 hours a day. To express this in other terms, he found that the average horse could do work equivalent to fting 33,000 pounds one foot in one

The term "horsepower," therefore, means the amount of power required o lift 33,000 pounds one foot in one minute. It has exactly the same meaning whether applied to a steam The device most commonly used in

## **AUB CHEST COLDS**

Quickly?-Yes. Almost instant relief This announcement was coincident from chest colds, sore throat, back with Willys-Overland bringing out a



right on your chest show room. and lke magic rewhich quickly breaks cliest colds. soothes the inflam

Get a 35-cent bottle of St. Jacobs

determining actual horsepower of motor is called the dynamometer. This word is a combination of the two words, "dynamo," and "meter." It means, as its names indicates, a

Capacity Determined. n determining actual horsepower of two words, "dynamo," and "meter." It means, as its names indicates, a measuring dynamo.

In testing an automobile for actual the Omaha Hudson-Essex company, horsepower, the gasoline motor and local distributor, the electric dynamo are hitched to "The dealer hi To get at a clear idea of the term is determined by suitable resistance business and merchandise his goods play to allow low air pressure tires to function naturally and absorb the

In the dynamometer test all factors and one that the public is demanding In the dynamometer test all factors and one that the public is demanding are taken into consideration. The today. Over 90 per cent of the faclate sales he first found it necessary moter is put on a stand and control educate the people to the value of nected up just as it is when in use. nected up just as it is when in use. It is then started and as it develops Watt knew that he would have to find some way of accurately contrast- exact amount of resistance offered. saying that it is building cars for the ing the power of his steam engine The dials show when the motor public and is looking forward to the Manufacturer Worked Night this locality. reaches the top of its power curve; time when the automobile busines that is, the speed at which the motor will be one of the leading merchan develops its maximum of power. If, dising units of the small retailer." at the top of its power curve, the just how much power the average dials show that enough electrical dealer complains that he cannot make units to equal 50 horsepower are op- money because of the large number erating against it, then the actual of slow-moving models some manuhorsepower of that motor is 50 horse- facturers force him into buying. The

Reduction on All Models, From \$35 to \$135 Now in Effect.

stantial price reductions on the enire Overland line, ranging from \$35 to \$135. The touring and roadster were reduced \$35 each, the coupe \$50 NEW CHEVROLET and the sedan \$135.

This announcement, coming as the does, at the same time that the Overland is bringing out an all-steel line creates a price and value never be fore equalled in the light car field Rub this sooth- 1,200 people attended the first show. ern metropolis. ing, penetrating of ing of these models at the Broadway

The two new lines brought out by lief comes. St. the company whose activities have two days reserved for the trade, and Jacobs Oil is a covered every phase of automobile it proved the mecca for the general to the successful four-cylinder Huppossible interest. The values on the lowing. Overland line, with the price reductions before mentioned, incorporated mation of sore into a product such as has never bethroat and breaks fore been presented to the public, will up the congestion that causes pain. give the buyer the greatest value never disappoints and does not at the lowest unit cost as has ever before been presented.

> Two cooks with but a single and night to full capacity to thought; two eggs that beat as one, the demand for the new cars

### \* Hudson-Essex Is Liked by Dealers

The device most commonly used Local Distributor Finds Complaints on Models of Some Cars.

"Hudson-Essex coaches appeal to

"The dealer has become the same as does the dry goods or grocery man.

"Three years ago Hudson-Essex in-

"The closed car is the logical car tory production at Hudson factory today is of closed cars and the tremendous gain made in 1924 of this Davisson states that the outside a number of inquiries or dealers that we have talked to in the last month are telling us that they are going

omobile business, but service is one watch. It was after 7. from the automobile business."

display of the new Chevrolet line at shows, was the first Hupmobile the New York automobile show than duced for more than a decade, accordache, lumbago, fol- new six-cylinder Overland line and a ing to veteran automobile men who lows a gentle rub- new six-cylinder Willys-Knight line, have been present at the greater ma- Hupp Motor Car corporation. bing with St. which attracted the greatest of inter- jority, if not all, of the 25 national

The exhibit was visited by practive present Friday and Saturday, the show

#### BALLOON TYPE SNUBBER MADE

to recognize the requirements of the priding problem introduced by lov pressure tires.

Gabriel designed the new balloon the dealer," said R. H. Davisson of type Gabriel snubber especially to meet these new requirements.

"The new snubbers have two exclu gether. The gasoline motor is then that he must get out of the automo. Gabriel superiorities," says Mr. Pow shock of small bumps; the increased galloping and rolling."

and Day Building Car for the 1909 Show.

"Turn out the lights, Charlie, it's

capital is not available for them to almost continuous day and night the benefit of its entire dealer or handle this on a business basis. Quite work for weeks, pulled himself up ganization. work for weeks, pulled himself up ganization with an effort from beside the car at to handle only one line of cars, be walked slowly toward the window. centers early this year. Cut Announced to handle only one line of cars, because in that way they can realize Through its frost-covered glass he entheir aims of proper service to the deavored to look out toward the schools, the sales development deschools, the sales development deschools are the sales development deschools.

how on January 6, announced subing building and executive quarters of the company that is now the Hupp Motor Car corporation. The speaker was Robert C. Hupp, for whom the car was named, and the car on which

both he and "Charlie" had been working feverishly, in order to have it completed for the automobile "Charlie" is better known to the world today as Charles D. Hastings. sedan at a price so low as to cause For nearly 10 years he has been president and general manager of the

est and comment at the show. Over automotive exhibits held in the east- 1925, Mr. Hastings arose to find that ing to meet a long felt want among Hupp's newest car, the Hupmobile the buying public. Eight, was one of the sensations of tically every automobile representa the annual New York automobile appearance and quality and we ex-

The new eight is the companion car Jacobs Oil is a covered every phase of automobile it proved the mecca for the general to the successful four-cylinder Hupharmer manufacturing. created the greatest public throughout the eight days following mobile which Hupp has been building NEW LUBRICANT

since the first car of 16 years ago. The striking features of the new most commented upon. The new semi- car, according to those among the elliptic springs and longer frame vied thousands of applicants fortunate with the new lines and roomier bodies enough to secure a ride in it, are its in exciting praise. The Duco finish freedom from roughness at all speed in colors for all models was another ranges, its flashing acceleration, the feature favorably commented upon. sheer simplicity of its design and its Chevrolet factories are working day outstanding ease of handling, both in

## J. H. Hansen Host

Cadillac Sales Force Plans to Mr. Anderson said: Make 1925 Banner Year in Omaha.

In keeping with the plans to make 1925 the most prosperous year since their establishment, the J. H. Hansen Cadillac company was host to its sive features which we regard as employes at a banquet held in the

function naturally and absorb the of the progress made and of his appreciation of the loval and efficien braking action required by balloon services rendered by the employes being equal to 746 watts of electric troduced the coach. Today most of and low-pressure tires to snub and many of whom have served him for current. In other words, 746 watts the manufacturers of automobiles are control the greater upthrow and stop seven years. Eleven persons were presented with five-year medals. He told of the extensive plans mapped out for the present year and explained that these plans could only be carried out by a concerted effor in Dingy Shed on the part of every one and every one was unanimous in assuring him of extra efforts in helping put 1925 on the map as Cadillac's best year in

#### MOTOR CAR SALES SCHOOLS OPENED

which he had been working, and schools will be located in geographical

street. It was bitter cold outside, and partment will treat such fundamen "The word service is one of the the wind was howling a gale, driving tals as territorial analysis to de ost misused expressions in the auof the vital questions that all dealers and salesmen should give serious thought to at this time. It must be which the dingy shed boasted.

of a modern retail sales manager; special selling campaigns; fleet business and how to get it, etc. Used John N. Willys, president of Willys-bandled the same as other merchanthow on January 6, appounced subthe new year, also demand more intelligent, intensive, systematic effort than past years have required.

#### MAXWELL'S NEW FOUR-DOOR SEDAN

quite a stir in auto circles. O. A. Wilson of Andrew Murphy &

Son, distributors, says, "This new four-door sedan at \$1,095 price is go-

"It is a very fine body both from pect a very heavy run on this model."

### FOR FORD AUTOS

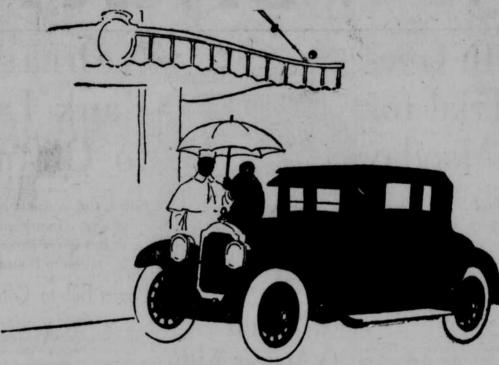
Having tried many brands of alled anti-chatter lubricants Ford cars and none meeting their requirements, the Nicholas Oil comoany has produced, in their own

bad condition, and at the same time ing in the bands. to His Employees stops all chatter in the transmission bands.

In speaking of this new product, After many disappointments and them. many times thinking we had solved "We tried many anti-chatter lubri-cants but could not find any that combination which we are using towould completely satisfy us, but day. This we have tried out thor thoroughly familiar with its many feeling certain that by the proper oughly, giving it the most rigid tests, advantages are just as enthusiastic compound of materials, we could pro- under all weather and road conditions about it as we are ourselves."

laboratories, an anti-chatter oil which duce an anti-chatter oil that would so that we could be absolutely car is a perfect motor lubricant that does give a real lubricant for the motor tain of its ability to thoroughly not separate and leave the motor in that would also eliminate the chatter- lubricate, and at the same time leave "With this goal in view, some two years ago we started experimenting.

ONLY PACKARD CAN BUILD



## YOUR PACKARD IS WAITING

Packard Six and Packard Eight both furnished in ten body types, open and en-closed. Packard's extremely liberal timepayment plan makes possible the immedi ate enjoyment of a Packard-purchasing out of income instead of capital.

No car that Packard ever built has made friends so quickly and so numerously as the Packard Six.

Now, because of recently announced price reductions of the enclosed models, the Packard Six, in unchanged quality, is available to more men and women. Thousands who have always wanted the quality and distinction belonging to Packard now can gratify that desire.

For example, the price of the Packard Six Four-Passenger Coupe has been reduced \$855-now \$2,985 in Omaha-with 5 balloon

Richardson Motor Car Company 3016 Harney Street AT lantic 3250

T'H E

# The most practical personal car for winter driving

The Ford Coupe is equally satisfactory for business or social needs in cold weather. Driving this convenient enclosed car, you will never hesitate to venture forth no matter how raw or blustery the day.

Light, yet affording all the power you will ever need, it will serve you faithfully

Coupe

every day. When heavy snow falls impede traffic, a Ford will carry you where heavier cars might fail. The seat is generously broad and comfortable. Unusual luggage capacity is provided in the rear compartment. Its low price and low cost of operation are factors that should influence your decision to buy at once.

AREST AUTHORIZED FORD DEALER

# A GUARANTEED

# Chatterless Oil for Ford Cars

FTER approximately two years of experimenting in our laboratories we have at last perfected what we think is the best Lubricant for Ford cars on the market. This Special Oil for Ford Cars will eliminate the chattering of the bands and at the same time will not separate or leave any stringy substance in the motor.

Drive in at any of these stations---have your car drained out and refilled with Nicholas Chatterless Oil, drive fifteen miles. If the chattering of the bands is not eliminated your money will be refunded, provided the bands were in good condition at start.

STATIONS

17th and Davenport 12th and Harney 18th and Jackson 24th and H Sts. 29th and Leavenworth 30th and Farnam

38th Ave. and Farnam 30th and Cuming 24th at Willis Ave. 16th and Sprague 49th Ave. and

Dodge 60th and Military Main and Military, Fremont

## Nicholas Oil Corporation

"Business Is Good, Thank You"