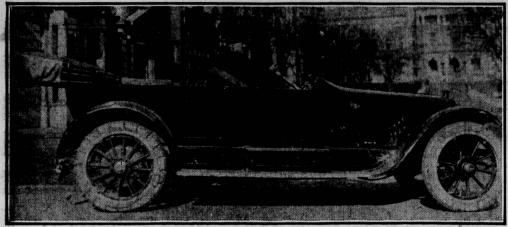
#### I. W. DILL AND STREAMLINE HUDSON SIX



I. W. Dill may be classed among the pioneers in automobile salesmanship. Years ago when rubber tires first became popular on buggies, Mr. Dill decided to ride in rubber cushioned vehicles and he has been sticking close to the elastic substance ever since, and when they began to propel vehicles by gas instead of horse-ower, Dill was among the first to see its future possibilities. Various cars have been sold by him, but they have all been passed up for the Hudson which is only made in six-cylinder models this year. For those who want a four-cylinder, the Krit line is offered this season.

# SIX-40 HUDSON CAR

Mistake to Consider Four Cylinder Motor More Saving Than Six



By Howard E. Coffin Designer of the Hudson Sixes

The relation of power to gasoline consumption, weight of motor, weight of car, etc., is one not of the Six as

The Six-40 3½x5 motor has a piston displacement of 288.6 cubic inches, while the Model 37 1913 had 280 cubic inches. These motors are approximately the same size, yet the Four-37 engines weigh 610 pounds while the Six-40 engine weighs 550 pounds. The The Six 40 3½x motor has a piston displacement of 288.6 cubic inches, while the Model 37 1913 had 280 cubic inches. These motors are approximately the same size, yet the Four-37 engines weigh 610 pounds while the Six-40 engine weighs 550 pounds. The 37" 4-cylinder car weighed 3,460 pounds ready for the road, while the Six-40 weighs approximately 2,940 pounds approximately 2,940 pounds. The average mileage per gallon obtainable with the 1913 "37" was about 9 to 13. The mileage per gallon on the 1914 Six-40 is 13 to 17.

The 1913 "37" was a 5-passenger car with a wheel base of 118 inches.
The 1914 Six-40 is a 6 or 7-passenger car with a wheel base of 123 inches.
The 1913 "37" sold for \$1,875, while the 1914 Six-40 sells for \$1,750. In

### Costs Less to Build

As a direct contradiction to the argument that the six-cylinder engine is more costly engine to build and nence must necessarily make the sixcylinder car a more costly car for the cylinder car a more costly car for the purchaser to buy, it may be cited that the Six-40 motor actually costs less to build than did the 4-cylinder

"37."

Differences in motor cost are, generally speaking, made up of differences in material costs. The material cost of the Six-40 six-cylinder motor is less than the material cost of the 4-cylinder "37" of approximately equal piston displacement, because the Six-40 motor weighs about 60 pounds less than did the Model 4-37 motor.

Built in Multiple

The cost of machine work upon the materials for the building of a 6-cylinder engine varies little from the cost of operations in building a 4-cylinder engine of the same piston displacement. In this day and age of machine tool development, practically all motor building operations are done in multiple. Upon the Four-37 moor all four cylinders were bored at one and the same time. Upon the 1914 Six-40 also all six cylinders are bored at the same time. Moreover, these cylinders being smaller in diameter and shorter than were the cylinders of the Four-37, the six cylinders of the Six-40 are actually bored in a shorter time than were the four cylinders of the Four-37.

All connecting rods are drilled at one setting, it matters not whether there be four or six. Every boring operation on the crank case is done at one setting and the holes bored with gang tools at the same time, so that it matters not whether there are to be six or four cylinders placed upon it. Every hole in cylinders or crank case is drilled at one and the same time by means of jigs and gang tools, so that there can be no possible difference in the time of the operation, whether the motor be a four or a six-cylinder.

The Differences

The fly-wheel of the Six-40 is much

#### The Differences

of car, etc., is one not of the Six as against the four-cylinder, but one of piston displacement purely. A Six of the same piston displacement as the Four will use less rather than more gasoline, other conditions being in proportion along the line.

A given piston displacement divided among six cylinders makes possible a lighter motor, lighter parts all the way through the driving mechanism and a lighter car in total weight, than does the same piston displacement divided among four cylinders. This lighter weight, the lighter reciprocating parts, the absence of vibration in the Six, etc., all tend to make the Six the more economical motor.

On the Six-54 we have a piston displacement of 420 cubic inches. This amount of piston divided among four cylinders would be approximately equivalent to a four of 4½ bore by 6% stroke, of 4% x0, of 5x5%, etc., etc.

Any Hudson dealer will agree that the 1914 Six-54 is more economical of gasoline than is any 4,000 pound car of which they ever heard of any of these cylinder dimensions mentioned.

Motors Same Size

The fiv-wheel of the Six-40 is much smaller and much lighter than the Pour-37, hence uses less material and requires less time to machine. The pistons of the Six are much smaller and much lighter than the pistons of the Six are much smaller and much lighter than the pistons of the Six are much smaller and much lighter than the pistons of the Six are much smaller and much lighter than the pistons of the Six are much smaller and much lighter than the pistons of the Six are much smaller and much lighter than the Pour-37, hence uses less material and Four-37, hence uses less material and Four-37, hence uses less material and requires less time to machine. The pistons of the Six are much smaller and much lighter than the Pour-37, hence uses less material and Four-37, hence uses less material and requires less time to machine. The pistons of the Six are much smaller and inche four-sall further than the pistons of the Six are much smaller and inche four-sall further than the

#### The Six Is Favored

Your visit to the Harrisburg Auto

Show, March 14th to 21st, would not be complete without seeing

the 1914 Oaklands-especially-

the New Light Six-\$1785-

which has revolutionized six-

Fours and Sixes

\$1150 to \$2500

Phila. Factory Branch

227 North Broad Street

cylinder values.

### speed, power and economy of upkeep the 1914 Six-40 will greatly excel the WEIGHT IN 1914 CAR

Official of Jeffery Company Explains Lead His Company Has Taken

By J. H. HILL
Designer of the Thomas D. Jeffery
Company.

An interesting lesson has been taught to far-sighted American motor of car manufacturers by the European show, and this lesson was further brought home to them this year by the Jeffery 1914 car.

The Thomas B. Jeffery Company has passed through identically the same development as have other manufacturers in this country, excepting in the one instance of the 1914 car, which is the result of the entire experimental stage of the extremely light and inefficient car to the heavy and still-inefficient car which we have recently ceased to build.

We felt certain that there was coming a time when the motor car buyer would turn his attention to economy, and economy meant lightness. "Look to Europe," said our engineers. And so, in company with my associates, I did look to Europe. We attended the Paris show. And in that one exhibit it saw out of eighty-six models exhibit affity-two that did not show as is used in the Jeffery Four.

The thirty-four manufacturers that did exhibit larger motors also had smaller bores.

To me this was most significant. It meant that here again was coming a great change in motor car building. On my return from Europe and in excutive session with the officers of the Thomas B. Jeffery Company we decided that we would anticipate the demand which we felt would come. The result is the Jeffery Four.

In building the Jeffery Four we have maintained an extreme lightness, without sacrificing either strength or comfort; reduced friction in the roadbed of power. We have designed our arr not only with a view to road and wind resistance, but with the all important purpose in mind of producing a car that will give you the maximum of pleasure. It is only natural that you might ask, "How could we reduce the weight of the Jeffery without reducing the durability of its construction?" Anather natural question for you to ask would be, "How could we increase the efficiency of the power chain without increasing the cost of the finished product?"

By the use

ncreasing the cost of the finished product?"

By the use of vanadium steel we are able to carry the body for five passengers with a saving of sixty-seven pounds, which is possible only because we use vanadium steel. In numerous other ways throughout the entire car we have been able to decrease the weight which would ordinarily be necessary for a slow-speed overweighted motor, and consequently in using the motor in which the number of explosions is far greater than in the larger slower motors the strain does not become so much of a trip-hammer vibration, and consequently the springs and frame used may be of a much lighter but exceedingly tougher material.

Let us not forget the specifications or the construction of the Jeffery Six or the Four—true to the great many specifications that characterize cars of at least three times the cost.

racterize cars of

or the Four—true to the great many specifications that characterize cars of at least three times the cost.

For instance, we use the Rayfield water-jacketed carburetor, which is the highest priced carburetor that the Rayfield people make. We use also the most expensive light system that we can buy; the most expensive magnetomer was a superstant of the most expensive magnetomer was a superstant of the most expensive magnetomer was a superstant which goes into another car. In the property of the most expensive magnetomer was a superstant which goes into another car.

We are trying to build a car for five people and to carry these five people as comfortably as any car made in the world. We have accomplished this. We have plenty of room in the body, which, by the way, is of the famous Rothschild type, not the streamline, but the Rothschild type which made the sensation of the Paris show and which we alone, exclusive of all other motor car manufacturers, are showing this year in New York. The Jeffery Four has more distinctiveness, more real stamina, than cars weighing twice as much and costing four times the price.

I can't believe that it would have

rice.

I can't believe that it would have a more possible for us to produce a more

efficient car.

Why worry when your auto suddenly takes a notion to quit running. Just pass the time away tossing the following questions at your fellow-passenger:

When is a motor car like a mirror? When it has a glass front.

What part of a motor car is mentally unsound? The crank.

What car sings best? Car-uso.

What class of literature reminds you of motor cars? Autobiography.

When water freezes in a motor car radiator what does it become? Ice.

What part of an automobile spins best? The top.

Why can't a motor car grow fat? Because it eats only gaso-lene.

Why is the freight on an ocean liner like gasoline in a motor car? It makes the car-go.

When is a motor car in the same.

Ike gasoline in a motor carr it makes the car-go.

When is a motor car in the same class with a dog, a peddler and a poet?

When it has a license.

When is a mtor like a horse housed for the night? When it is stalled—

Honk Honk.—Exchange.

Henry Ford has furnished the answer to the question: "Why is it so many thousands of young men refuse to marry?" During the first week of the profit-sharing increase in wages, fifty of the men in Ford's employ became bridgerooms.

### ABBOTT-DETROIT AT THE SHOW THIS YEAR

Strong Features of Models Emphasized by Factory Representative For Eastern District

BY C. D. STEWART
Harrisburg Branch
Motor Car Company

Abbott

The Abbott Detroit cars are fast winning their way into the hearts of the people of Harrisburg and vicinity, the same as they are in the large cities of the country, and the answer is this:

the same as they are in the large cities of the country, and the answer is this:

Anyone versed in car construction knows full well that Continental motors, Warner transmissions, Timken bearings, Spicer universal joints and Auto electric starting and lighting system are points that know no superior, and in addition to these the "Buildog line" has many other features that appeal to the discriminating buyer. For instance, the six-oylinder Abbott car has a four forward speed transmission, with direct drive on third gear, the fourth gear being used in instances where it is desired to drive above forty miles per hour.



C. D. STEWART

you cannot have your gear in low or reverse and start it accidentally, as you are apt to do where your electric starter is worked independently from the shifting lever. This is a remarkably strong feature and worth a very careful investigation.

The gas tank on the six is, carried in the rear. This not only makes it handier in filling, but it means safety, as tanks carried in the cowl are very near the engine and in case of an accident the chances of an explosion are decidedly greater. If you value your life, consider this point, then examine such cars as Packard-Peerless and other high-grade makes and you will see they carry the tank in rear. It cost the factory more to install them this way, but it spells safety and satisfaction for the user.

There is no car made that will stand the were and tear any better than

### A New-Type Six

Less Price---Less Weight---Less Fuel Cost Than Fours

New

HUDSON

SIXES

Six-40---\$1750

This new car - the HUDSON Six-40 - a light-weight Six-an economical Six. And brings out many innovations.

The engine is a type first developed in Europe — a small-bore, long-stroke motor. And Europe which deemed the Six too wasteful, now acclaims this Six as the coming type of

It has made possible for the first time an economical Six - far more economical Ithan

This new HUDSON Six-40 weighs 2,980 pounds. That's 400 pounds less than last year's HUDSON "37." It consumes one-fourth less fuel. Yet the HUDSON "37" was a four-cylinder car, shorter, less roomy, less powerful.

Compared with other Fours in this class the difference is greater. Some same-class Fours weigh 40 per cent. more and consume one-third more

#### Price \$1750

And this HUDSON Six-40-a quality Sixfar undersells any Four in its class. So a man who now buys this-class car pays more for a Four and more for its upkeep than this HUD-SON Six-40 costs.

This means, beyond doubt, the doom of Fours above \$1500.

For several years no Four has been salable at a price which would buy a good Six. Eighteen high-class makers now build Sixes exclusively, and 54 of them build Sixes for best.

Now comes a modest-price, high-class Six-

the coming type. Hand-buffed leather upholstering. It has the convenient new "One-Man" Six-54---\$2250 convenient new "One-Man" top with quick-adjusting curtains attached. Two disappearing tonneau seats. Gasoline tank in the dash. Extra tires ahead of the front

> meter gear. Dimming searchlights, the Delco patent system of electric starter and lights. Six months ago there was no car at any price "

door. Concealed hinges, concealed speedo-

the price is less than many thousands of men

The Six is smooth-running. It has over-

Men who find this out will not buy Fours at

A New Body Type---New Features

distinguished car.

The design and equipment

are almost the same as the new HUDSON Six-54. And

that is considered the hand-

somest car of the year—a really

An ideal streamline body of

lapping strokes. It is flexible, economical of tires. Riding in a HUDSON Six is much like

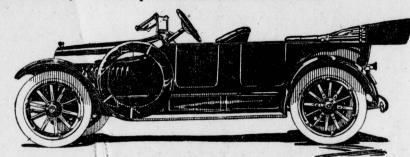
have every year paid for Fours.

constant coasting.

anywhere near this price.

which offered so many attractions. This new Six-40 is to-day the most interesting car on the market. The demand for it is breaking all HUDSON records. You may, when you see it, want an early delivery. If so, we urge that you come and see it now.

54 of the 79 Automobile exhibitors at the 14th National Automobile Show held in New York Jan. 3 to 10 this year, displayed six-cylinder cars. Eighteen showed Sixes exclusively. That emphasizes the dominance of Sixes.



Roadster type. Also Cabriolet completely enclosed, quickly changeable to of

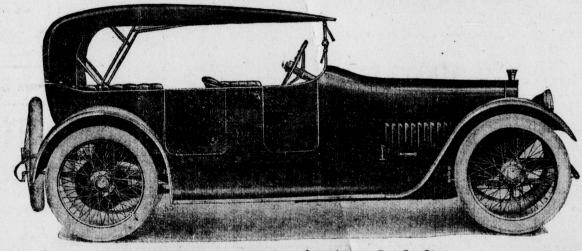
East End Mulberry Street Bridge I. W. DILL Harrisburg, Pa. A FULL LINE OF HUDSON MODELS AT THE SHOW

There is no car made that will stand the wear and tear any better than Abbott Detroit. Even down to the spring clips we consider material. They are all hand-forged. These items cost us more money than most car companies like to spend for these rompanies like to spend for these highest few points, but in building Abbott cars the

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## The ELECTRICALLY CONTROLLED GASOLINE AUTOMOBILE



Model 6---46A---\$2,500, Including

### VULCAN ELECTRIC GEAR SHIFT

The Pullman 6-46A is a complete revelation. It is more than that. It marks an epoch in automobile construction. Its distinctive features will ultimately be adopted by other manufacturers of high grade motor cars. The Vulcan Eelctric Gear Shift alone puts it in a class by itself. Here is a car that a child can operate by the "mere touch of an electric button." No hard or awkward shifting of the gears. Everything is arranged for the driver with the least possible exertion.

See this car at the Harrisburg Auto Show. It will be the most artistic and distinctive car there. Ride in it and you will not wonder why it is called the "PALACE CAR OF THE ROAD."

MOTOR 33/4×51/4 WESTINGHOUSE STARTING AND LIGHTING **BOSCH MAGNETO** STROMBERG CARBURETOR FOUR SPEED TRANSMISSION TIMKEN AXLES WIRE WHEELS ONE SPARE WHEEL TIRES 36x41/ CLEAN RUNNING BOARDS LEFT HAND DRIVE

ONE MAN TOP EUROPEAN COACH WORK TURKISH UPHOLSTERY GASOLINE TANK IN COWL WHEELBASE 134-INCH **BODY 5 OR 7 PASSENGER** 

Exhibition in Charge of W. F. GROVE, Factory Representative

IAN MOTOR CAR

YORK, PENNSYLVANIA