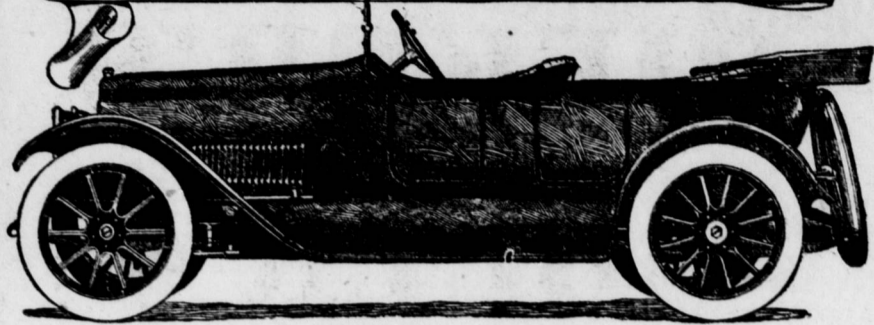


OF INTEREST TO MOTORISTS

The result of 22 years' successful experience in building motor cars



America's Greatest "Light Six" \$1485



5-Passenger Touring Car 2-Passenger Roadster

Overcoming Vibration

VIBRATION plays a very important part in the design and durability of the motor car, which must withstand conditions that the average piece of machinery never encounters.

The locomotive, for instance, travels upon a carefully constructed steel track which is especially a part of the machine itself; but the automobile is subjected to constantly varying road conditions which necessitate the use of pneumatic tires and various shock absorbing devices.

Aside from the shocks that are received from outside sources there are also the motor or internal vibrations, which, however, are almost entirely overcome in



Not only is every precaution taken to eliminate the internal vibrations, but the entire design has been worked out with a view of overcoming the irregularities of the highway.

Specifications in Brief:

- | | | |
|---|---|---|
| Unit power plant, 3-point suspension, 6-cylinder 3 1/2" x 5" engine motor, actually developing 55 brake horsepower. 121-inch wheelbase. | at rear of chassis. Splash and force feed lubrication. | Crowned fenders. |
| Left hand drive, center control. | Forced water circulation. | Low center of gravity and long sweeping body lines. |
| Weight, 2950 lbs., giving more than one horsepower to every 55 lbs. of weight. | Clutch, three-plate dry disc type lined with Raybestos. | 34x4 tires, Firestone demountable rims. |
| Leace-Neville separate unit starting and lighting system. Ignition from storage battery through Kemy distributor and coil. | Transmission, selective sliding gear type, three speeds forward, one reverse. | Motor driven tire pump. |
| Economical Rayfield carburetor. | Haynes full floating rear axle, axle shafts, pinion and pinion shaft nickel steel. | Stewart-Warner Speedometer. |
| Vacuum gasoline system with gas tank. | Exclusive arch frame construction, with 54" elliptic chrome vanadium steel springs. | Improved one-man top, Collins curtains. |
| | | Clear and rain-vision ventilating windshield. |
| | | Strapless tire carrier at rear of chassis. |
| | | Clear running boards. Headlights with dimming device. |
| | | Electric Horn under hood. |

The Haynes line also comprises Model 31, "Big Six" with 65 brake horsepower and 130-inch wheelbase—\$2250; Model 32, Haynes "Four" with 48 brake horsepower and 118-inch wheelbase—\$1600.

It will be a pleasure to give you a demonstration. Come in or telephone for appointment.

HARRISBURG AUTO CO.

THE HAYNES AUTOMOBILE COMPANY, KOKOMO, INDIANA

HEAT TREATMENT OF STEEL IMPORTANT IN AUTO PARTS

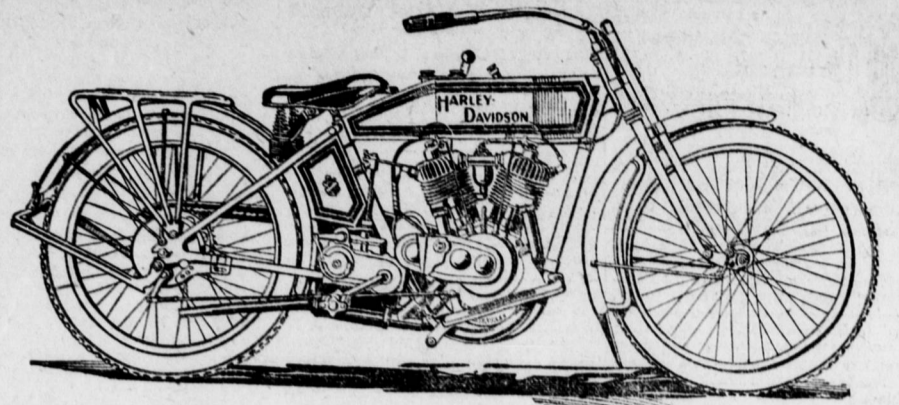
Opinion of George G. McFarland, President of the Harrisburg Automobile Company, Distributors of the Haynes, America's First Car

Heat treatment of steel parts, especially the drop forged parts, plays a very important part in the automobile industry, though the value of such treatment, according to George G. McFarland, president of the Harrisburg Automobile Company, distributors in this territory for the Haynes, America's First Car, is little appreciated by the average owner on account of his lack of knowledge in regard to its possibilities.

Steel is a mixture of free carbon, carbon combined with iron and what is known as a solid solution of carbon in iron. The hardness and toughness of the steel depends upon the condition that this carbon exists in the steel. Heat treating in its elementary form consists in getting the steel up to a few degrees above what is termed the critical temperature of the particular steel and then suddenly cooling the steel. The actual process is a little more complicated than this statement would indicate. When the steel reaches this critical temperature, there is a sudden change in its composition. The carbon and iron making up the steel change their relation, so that there is an actual change in the internal structure of the steel. The solid solution of carbon has increased.

The important steps of heat treating consists in getting the steel up to the proper temperature so as to obtain this changed structure, and then to cool the steel suddenly to retain the structure. All steel is crystalline, as a broken section will show, and a properly heat treated steel should show a fine silky grain, while the untreated steel is usually coarse grained. The effect of heat treating is to increase wonderfully the strength of the steel. For instance, a piece of steel that would break under a pull of 60,000 pounds before heat treating, will not break after heat treating until a load of 120,000 pounds is applied. The relative increase in strength due to heat treating depends, of course, upon the initial composition of the steel as to the per cent. of the carbon and other elements.

The use of heat treated forging slightly smaller than the untreated forgings used in the past years, enables the automobile to be built lighter and at the same time actually stronger. Every steel forging in the Haynes light six car, such as the crank shaft, cam shaft, steering knuckles, brake levers and connecting rods is heat treated. Even the gears in the transmission and rear axle are given the heat treatment to prevent any possibility of their being stripped, should an attempt be made to shift gears at the wrong time.



1915 Harley-Davidson

11 Horsepower GUARANTEED
3-Speed Sliding Gear Transmission
Automatic Mechanical Oil Pump
Step-Starter and 66 Refinements

\$275.00

The 1915 Harley-Davidson three-speed twin is the first motorcycle to climb a sixty per cent. grade. It has taken a sidecar and passenger up a forty-five per cent. grade without a murmur.

1915 CATALOGUE ON REQUEST

HEAGY BROS., 1204 North Third Street
Harrisburg, Pa.

Open Evenings

BOWMAN'S
GOODYEAR KELLY-SPRINGFIELD
NASSAU CAPITOL IMPERIAL
All Guaranteed
AUTO TIRES
All sizes for every make of automobiles. Bowman's recognized service with every tire.
THIRD FLOOR—BOWMAN'S.

COMING BACK FROM EUROPE
Foreign Manager of the Maxwell Motor Company Sails for New York To-day
C. P. Redden, who has been abroad for several months and has had some thrilling experiences during the present war, has advised the Maxwell Motor Company, of which he is sales manager, that he will sail for America on the steamship Minnehaha, October 10, arriving in New York about October 19. Most of the foreigners who were in the employ of the Maxwell Company in their respective countries have taken up arms and Americans have been sent over to take their places in the business field.
Mr. Redden's return will throw much light on business conditions in foreign fields as he has been in closest touch with all branches of industry and his prediction as to the future of European business from an American standpoint will be awaited with interest.
E. W. Shank, the local distributor, received during the past fortnight three carloads of Maxwell touring cars. During the present week he also received the first Roadster of the 1915 model and is delighted with its beauty, completeness and action.

Maxwell
New 1915 Model
\$695
17 New Features
The "Wonder Car."
The sensation of the automobile world. The biggest automobile value ever offered under \$1,000.
Powerful, fast, silent and one of the easiest riding and most economical cars in the world.
A splendid, fully equipped real 5-passenger family automobile. With Sims high tension magneto, sliding gear transmission, left-hand drive, center control, anti-skid tires on rear and—
Practically All the High Priced Features of High Priced Cars
The easiest car in the world to drive. The greatest all around hill climbing car in the world. The car with a pure stream-line body.
Holds the road at 50 miles an hour.
With Electric Starter and Electric Lights, \$55 extra.

E. W. SHANK
Maxwell Service Station
Central Auto Garage
324 Chestnut St
Bell Phone 724

VULCANIZING
Expert Work Only
1451 Zarker Street
Sterling Auto Tire Co.
WE are disposing of our entire stock of used cars. If you intend buying a car, now is the time. Among them are cars equipped with electric starter and lighting. All in good condition.
No reasonable offer refused. Call and look them over. Open evenings and Sundays.
ABBOTT-DETROIT BRANCH,
106-108 S. Second St., City.

C. A. Fair Carriage and Auto Works
Manufacturers of Auto Tops, Bodies and Seat Covers
Auto Painting, Rubber Tiring, etc.
We Manufacture and Repair Auto Springs
"QUALITY IS OUR MOTTO"

MORTON EXHIBIT IN PARADE
One of Their Handsome Cars Was Specially Built for the Friendship Fire Company
The Morton Truck and Tractor Company of this city, manufacturers of automobile trucks, fire trucks, gasoline hose and chemical trucks, exhibited and demonstrated two of their cars on the principal streets during the firemen's convention here.
One of their handsome cars was specially built for the Friendship Fire Company. These were the first public tests given and engaged the interest and attention of many of the visiting firemen and our citizens. Samuel F. Dunkel, J. Harvey Patton, W. S. Morton, John Campbell and C. E. Morton are all deeply interested in the growth and welfare of this company.
Forty men are already steadily employed at the factory. Four of their fire machines have been already completed. One single order has been obtained for 100 of their large trucks.
Ten fire companies were waiting to see this week's demonstration before placing an order. The special features of their design, including their steering drive, separate gearing for the wheels and even distribution of the load on all four wheels, are prominent and satisfactory.

\$2.00 and \$2.50 Tires Reduced to \$1.50
Bicycles were formerly \$25.00 and \$30.00, now \$18.50
Including Coaster Brake
Take advantage of this sale
EXCELSIOR CYCLE CO.
1007-09 N. THIRD ST.
Open Evenings Bell Phone 1635J
BRANCH: 126 N. Front St., Steelton, Pa.

Miller Tires
1451 Zarker Street
Sterling Auto Tire Co.

AMERICAN IS DETAINED AS SPY IN EUROPEAN WAR ZONE
Special Foreign Representative of Maxwell Motor Company Tells of Narrow Escape and Midnight Rides—Takes Shortest Way Home
"If the Statue of Liberty wants to see me again before the European war is over, she will have to turn around." Thus remarked E. M. Greene, foreign representative of the Maxwell Motor Company, of Detroit, as he stepped from a Maxwell touring car and entered the Maxwell Company's main office in Detroit.
The account of Mr. Greene's experience is most interesting. He was in Paris with C. P. Redden, the Maxwell Company's sales manager, when the war broke out. Together the two men witnessed the mobilizing of French troops and the wild, but enthusiastic, of the Parisians as they marched through the streets of their city singing and yelling.
On July 30, Mr. Greene reached Berlin and there again he saw scenes, which only occur before a great war. It was while Mr. Greene was here that the Germans learned that the English were mobilizing. They had not feared so much before but their faces became serious when they learned of the action of the British. It was at this time that Mr. Greene was taken as an English spy and was forced to spend several hours under guard before he was identified and released. Mr. Greene also witnessed an attack on the English Ambassador. Mobs followed his automobile and a troop of mounted policemen with drawn swords surrounded his car and accompanied him to safety. The Germans destroyed all things bearing English names and the beautiful residence of the English Consul was stoned.
With such spirit against the English running high the lives of Americans were more or less endangered, due to the resemblance between English and American. For this reason the German authorities issued an edict that all Americans wear American flags as a means of identification.
Mr. Greene was fortunate to secure transportation on a special train for Americans only, from Berlin to Rotterdam. There were 165 Americans on board and the usual run of seven hours occupied a day and a half. The train had a dining coach but the passengers were compelled to sleep in their seats.
At Amsterdam, Mr. Greene took a train to the Hook of Holland and thence by boat to Harwich and another two-hour train ride brought him to London.
While en route to New York, the Minnehaha, on which Mr. Greene booked passage, had several delays. One night she was held up by a strange warship and not until the stranger was satisfied as to the nationality and destination of the Minnehaha was she allowed to proceed.
Several days out of New York a field of icebergs was encountered and created intense excitement on shipboard, and then as if to cap the climax, a hurricane sprang up, which threatened for a while to pay havoc with the ship. New York was finally reached, however, and Mr. Greene's reference to the Statue of Liberty undoubtedly voiced the sentiment of every American on board.

THE AUTO SHOW AT ST. LOUIS
American 1915 Models Have Been on Exhibition During the Past Week
The American 1915 models of automobiles have been on exhibition at the St. Louis Auto Show during the past week, October 5 to 10.
Forest Park Highlands, the most popular summer garden, under the auspices of the St. Louis Automobile Manufacturers' and Dealers' Association, was the scene of this, their eighth annual show.
The accessories department contained all the latest automobile parts, smart togetery, modish motoring coats, chic motoring hats, bonnets and veils. The park exhibit is believed by many to show the cars to better advantage than an indoor display and gives prospective purchasers a more comprehensive picture of the car in actual use.
On Thursday a large dance was given in the pavilion.
Monday a parade through the city

of the cars exhibited containing two hundred babies was pronounced a perfect pageant.
Tuesday a parade of the electric cars. A Pageant of decorated river craft the afternoon of Sunday, October 11, will be the third parade of the week. That parade will be followed by speedboat and rowing races. The Navy Department will be represented by the United States torpedo boat destroyer Somers, which will be on inspection at St. Louis throughout the week. The start of the river parade will be announced by the ascension of Captain H. E. Honeywell's latest balloon, containing himself and Miss Edna Kiel, daughter of the Mayor of St. Louis.
The other events of the week will include a reliability tour of automobiles, Saturday, October 10, under the auspices of the Automobile Club of St. Louis.
A Fighter
"I thought you said this dog is a fighter!"
"So he is."
"He can't scrap at all."
"He surely can. When I owned him he used to lick his chops after every meal."—Detroit Free Press.

\$1500 GREAT SALE 1915 BRAND NEW TOURING CARS and ROADSTERS
Catalogue and Name Given on Request **\$875**

Electric Starter and Lights
Motor 4-cylinder, 4 1/4-inch bore by 5 1/4 stroke, dual ignition system, Stromberg carburetor, 3 speeds, centre control, right and left-hand drive, full floating rear, 34x4-inch tires, demountable rims, 114-inch wheel base, and fully equipped.
These cars were ordered for export, but owing to demoralized transportation facilities could not be shipped, making it possible for us to buy the entire order for Spot Cash.
We have only a limited number, so act quick. Cars now on our salesfloors.
Every car sold with a guarantee.
Gorson's Automobile Exchange
238-240 N. Broad St., Philadelphia, Pa.
Open Evenings and Sunday 10-2. Agents Wanted.