Hudson Company to Make Debut-The Old Familiar Favorites.

Chicago, April 7 .--- Altho the first signed entry blank for the third annual auto derby, which will be held on the Chicago speedway June 9, has yet to be filed away by the local promoters, it is not difficult to forefrom prospective entrants.

There probably will be four Amercer and Duesenberg nameplates. Hudson is the neophyte team, the comeago this year, altho two of its cars weight below is very important. were campaigned last season by in-Crawfords to act as mechanical expert for Hudson. Jack Gable, for-merly mechanician for the late Bob ey at the wheel of a Hudson.

be entered by Earl Cooper, who has rather than demountable rims. been entrusted with them by Harry Stutz, the builder and owner. Altho GARFORD COMPANY COMBINES these cars were retired after they SALES AND SERVICE DEPTS. captured the 1915 road racing and one of them on the Pacific coast and who his teammates will be.

the fans at Elgin and Indianapolis, intelligently and efficiently. have not been active in racing circles Pullen, driving on the Pacific coast company, for the California distributor. The "After

Duesenberg Always a Contender. Duesenberg, always a persistent contender in road races and speedway events, will be represented by Duesenberg has not announced the personnel of his 1917 team, it is thought that Wilbur D'Alenc and Tommy Milton will drive for him.

Altho the French Peugeots will not be as prominent this year as last when they took 13 of the 25 speedway races on the 1916 schedule, as the result of the retirement of Dario Resta and the Indianapolis speed way from racing, the auto derby will not be without foreign competition. Sunbeam of England and Fiat of Italy each sending two cars across the Atlantic to wage international combat. Josef Christiaens, the Belgian, may be at the wheel of one of the Sunbeams and Cagno and Scales have been named as the Fiat driv-

Unless Alphonse Kaufman, who brought Resta to this country, finds dianapolis sells its French speed creations at the prohibitive price it is asking for them, it is probable that only one of the four Peugeots now in America will be campaigned this season. This Peugeot, owned by Lutcher Brown, has been turned over to Ralph De Palma, who also plans to enter the rebuilt Mercedes in the auto derby.

This about exhausts the supply of foreign cars in this country with the exception of the two Delages and the Peusun, owned by Harry Harkness of New York. He has not announced his 1917 racing plans as yet and it is a question whether his exotic mounts will be prepared for another campaign since they failed to show much promise last season

Barney Oldfield in New Car. Barney Oldfield has switched his allegiance from the Delage to a novel aluminum car that has been built for him by Harry Miller of Los Angeles and which will make its malden start in the auto derby. The promoters also have been promised several othindividual entries, including George Buzane's Duesenberg, William Weightman's Duesenberg, Joe Boyer's Frontenac and Tom Alley's American, that will bring the number of starters up to the limit-33

NEWSPAPERS BETTER MEDIA THAN MAGAZINES

George Howard, sales manager of the Pullman Motor Car company rates newspaper advertising as 10 times more valuable than magazine advertising, and he bases this statement on a comparison of the returns received from newspaper and magazine advertising by automobile deal-

ers:

"A machine to be sold in a certain community must be advertised strictly before the eyes of those in that community, and the newspapers are the only medium for the work," he said. "We have found from actual experience that newspaper advertising stimulates business under any conditions. For a sales corporation to sell a machine in any given community, whether it is a large city or a small town, the merits of the motor and the quality of the car in general must be brought before the public of that community thru the adver

## Wheel and Motor World

overshadowed it in importance. ing favor accorded semi-floating rear the sale." promoters, it is not difficult to fore-axies and quick-detachable rims, cast the field for this race—the open-each being the lightest type of con-

the inquiries that have been received the being the lightest type of the truction employed for its purpose.

EQUIPPED CAR

The builders of the Franklin have

It is surprising The builders of the Franklin have the surprising to those who re-consistently followed light-weight call the motor car of some ten or There probably will be four American teams of three cars each on the starting line. They will have on their hoods, the Hudson, Stutz, Merican teams of the Hudson, Stutz, Merican their hoods, the Hudson, Stutz, Merican their hoods, the Hudson, Stutz, Merican their hoods, the Hudson that the first what constitutes "standard equiptions of the public for ease of riding and abiliment." The purchaser of a car, but

ity to hold the road is light weight, a few years ago, found that he had and that the proper relation of the bought the chassis and body only pany making its racing debut at Chi- weight above the springs to the Before he could operate his car with

Ira Vail. Both Mulford and Vail will up to their self-imposed standards top, etc. As a type of the completely be members of the factory team, by extensive use of aluminum and equipped car the Cramer Motor Car per representative visited the great which will be managed by Arthur alloy steels, together with careful Co., 410-12 Fifth street west, Studebaker factories and inspected Hill, able director of Dario Resta in designing of parts, making possible points to the Pathfinder Touring 1915 and 1916, assisted by Billy a touring car that weighs only 2,280 Roadster, from the Indianapolis Chandler, who has abandoned the pounds. Axles are 30 per cent plant of the Pathfinder company, as Burman, also will chase prize mon- ing and aluminum differential hous- deed, this company goes many steps Stutz and Mercer Cars.

Stutz and Mercer will celebrate service brake on a transmission included in the one purchase price. brake drum. In addition, all cars of course, there are a full comple-The Stutz cars will are equipped with quick-detachable ment of electric lamps for front,

In its long and successful career, speedway championships, last sea-son Cooper was permitted to drive believes that it has probably never stat to control water temperature, made a more practical decision than motormeter to show what proper moanother was driven in the Cincinnati that which combines their sales and tor temperature is maintained, Delco inaugural race by Gil Anderson and disabled. 1Cooper has not announced and under one head. In this, and in tires and tire pump, and a hundred no other way, in its opinion, can or more luxuries and conveniences. The Mercers, former favorites of service for truck users be handled "The ability to render quick and CAR STILL USED DAILY

for two years, the factory confining intelligent service is an asset in fa-its entries to the fall meets on the vor of any truck manufacturer," de-concerning the first Dodge Brothers ery wheels. Automatically, the em-New York speedway in 1915 and clares S. M. Williams, sales man- inotor car ever built developed from New York speedway in 1916 and clares 5. M. Williams, sales man-1916, and the team captain, Eddie ager of the Garford Motor Truck a discussion among automobile men 1910, driving on the Pacific coast company. "Old

and Publisher.

"Service, to be real, must be will-for ordinary experimental purposes.

"It may surprise you to know that Within recent years, road-holding ing, intelligent and prompt and ability has received more attention, when such service really exists, it the better part of a year was conability has received more attention, when such service really exists, it however, as is shown by the increase goes a long way towards closing sumed in making up these dies, all her such as a long way towards closing because Dodge Brothers insisted on

lany degree of comfort or safety were campaigned last season by in-dividual owners. Ralph Mulford and about producing a car that measures even such essentials as lamps, horn, lighter in proportion to body weight a notable example of what, in these than the average. This is made pos- latter days, is considered the comsible by the use of nickel-steel tub- pletely equipped automobile. Ining, and by keeping the transmission beyond all other car manufacturers off the rear axle and locating the in the items of equipment which are rear and tonneau, starting and lighting batteries, speedometer, clock, gasoline gauge, electric horn, windshield and tool equipment. each Pathfinder is equipped with er Hartford shock absorbers, thermo-

DODGE BROTHERS FIRST

An unusual bit of information in Detroit a few days ago. "After purchase, service has come Betsy," as the car is familiarly of an inch. she originated more than three ONIA \$30 MAY 1. only "to see how it looks and acts,"

was made up originally of manufac- tail price of the Maxwell touring car vertising, if the advertisor has a real land company by the Overland-Han- sinking to the bottom, where it lay

OAD AND GIVE EASE

On when he buys a truck; and your motor cars with the other automo- well company's manufacturing plants that Chandler advertising has not almost that chandler advertising has not alm Oldimers in the automobile busi-shrewd buyer makes sure of his one eastings in purious are often heard to remark that ability to command such service.

This is done because it is a very tomobile producing organization since producing organization of the chain-driven cars of the early tomobile producing organization since price first evidenced a marked of the abelity to hold the convince him that this is not so. He has, also, learned to distinguish belowever, set about making dies for forgings. Dodge Brothers, road.

OF ENTRIES—33.

OF ENTRIES—34.

OF ENTRIES—35.

OF E due to the adoption of shaft drive often happens that his investigation with its heavy working parts located directly on the axle, was either overlooked or put up with because the relief from early-day troubles the relief from early-day troubles overshadowed it is investigated and it every part which they and previously determined was to be a forging. With some of these, of course, the first year or so of the European war. GOODYEAR COMPANY ADDS say, but with many others the plain castings would have been adequate for ordinary experimental purposes.

duction is explained to a large degree by this initial thoroness

PROCESS OF MAKING AN

AUTO CAM SHAFT. car factory. In fact, it is little short of marvelous to watch the speed with which the various parts which go toward making up a spick and span 1917 automobile are manufactured While in Detroit recently a newspa Studebaker factories and inspected every process of manufacture from the foundry to the assembling deing manufacturing operations was the processes necessary to make a single part, the cam shaft used in the new series 18 Studebaker cars. The steel for the cam shaft comes

to the factory in bars. This bar is cut off by gigantic shears into bil lets about a foot long. The billet is heated to a malleable state and placed on the die of a great steam hantmer. In a few strokes the billet of steel is elongated and shaped roughly into its final form. Aftthis operation s allowed to cool in the air. then heated again slowly to 1700 degrees Fahrenheit. This heat treat ment readjusts the grain of the steel

after the strains of the dropforge hammer. It then goes thru several lathes and as a last finishing process it is cleaned, straightened, inspected and hen passed on to the final grinders. Here it is ground to shape under emery wheels are guided over the curved surface of the cams so as to insure accuracy to the one-thousandth

his work at the shore in the past he years ago. Altho she has already Unable longer to offset the concredits to display advertising in the piled up a record of more than stantly-soaring price levels for raw newspapers, rather than to the fact 150,000 miles, she is being used to-materials without either taking that we have been advertising the day for the most difficult experisomething out of the car or adding Pullman nationally thru magazines mental runs. However, the unusual to its selling price in order to make valve aviation motors. Altho Fred and had the cars on exhibition at the lies in the fact that "Betsy," unlike ends meet, the Maxwell Motor Sales auto shows in Atlantic City.—Editor most experimental cars designed corporation, it is made known, has found it necessary to increase the re-

Military training has been added o the educational classes of the

CHANDLER COMPANY IN FACE CAMPAIGN

One of the most interesting adver- never supplied any Chandler dealer ising campaigns of many a season anywhere with a special gear ratio is that now being followed out by the for demonstrating purposes, because handler Motor Car company of what any Chandler Six does, every Cleveland, manufacturers of the Chandler Six will do. partment. One of the most interest- Chandler Six. Mr. R. Reedy, manager of the Graves Auto Co., local REMARKABLE PROOF OF Chandler distributer, says that he never had any doubt of the value of newspaper advertising, but that his conviction as to the value of such ad- Toledo factory of The Willys-Over-

"Chandler advertising this spring." the business man acquires a lien manager, who was discussing early that has been attained in the Max
the business man acquires a lien manager, who was discussing early that has been attained in the Max
the business man acquires a lien manager. Who was discussing early that has been attained in the Max
factory calls a fact campaign. Not company in its production.

which the boat also carried, affected

to facts.

The Chandler company in its advertising minces no words when it says that not to its knowledge has a professional motor car driver ever made a record with a Chandler Six. Goodyear Tire & Rubber company's but that all the thousands of owners factory school at, Akron, Ohio, ac-cording to an announcement just is-ing the kind of records that count-'doing it right from the beginning.' sucd to employes by P. W. Litch-records of satisfactory service. And Undoubtedly the remarkable success field, vice president and factory that the Chandler company has never of the car from the first day of pro-manager. Instruction is to be given built a racing car, because Chandler under the supervision of ex-army owners do not want racing cars, and officers of long military experience, the 55 to 60 miles per hour speed. The Goodyear factory is in operation that every Chandler does is speed ROUESS OF MAKING AN

24 hours of the day, divided into much greater than the owner would three 8-hour shifts. The classes in ever ask for. And that the Chandler military training have been arranged company has never built a special that the chandler company has never built a special that each shift of workers may have mountain-climbing car with short two hours of drill each week. wheel hase and low gear ratio bewheel hase and low gear ratio be cause the case with which every Chandler climbs grades on high goar

FINEST CONSTRUCTION.

is satisfying to the Chandler owner

And that the Chandler company has

Information just received from the

ing cars.

raised and the greater part of the cargo salvaged. "These 18 touring cars, when Apjril 7. 200th visit, ised to the surface, presented a (advertisement) raised to the surface, presented a

"Some time ago the vessel was

been on fire for several days, before

contains a novel endorsement of "During all this time the cars were Willys-Overland construction and the subjected to the effects of fire, smoke

"Last year," says Mr. Hansen, "the the paint and upholstery, teamer Wissely, carrying a cargo of "Examination revealed, however,

Dr. Shallenberger, specialist in chronic, nervous, special diseases. Waterloo, Russell-Lamson, Saturday,

Look today for the Want page.

## **Increased TIRE MILEAGE**

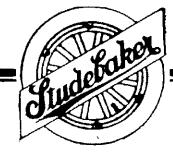
We will re-tread your old tire and double your mileage. Work guaranteed.

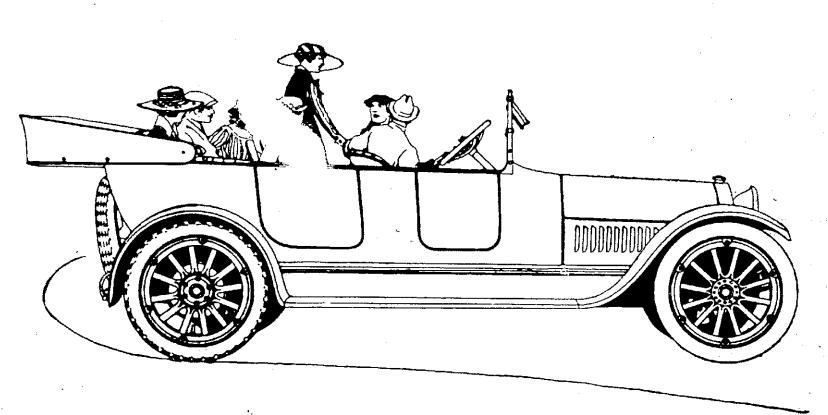
VULCANIZING

Re-tread Tires for Sale.

## Waterloo Auto Clearing House

108 EAST FIFTH STREET.





## The Studebaker SIX The Latest and Best Studebaker Automobile

C'TUDEBAKER has spent four years In perfecting a single basic automobile design.

Each year Studebaker has produced a better car.

The Series 17 Studebakers offered such remarkable values at their prices that the entire output was sold early last August.

The Series 18 is still better.

They embody ninety distinct improvements of mechanical construction, convenience and comfort.

In ratio of power to weight they are probably the most powerful cars on the market.

In ratio of power to gasoline consumption the most economical.

Their balance is refined to such a point

that a single set of tires frequently runs from 8000 to 12000 miles.

Their lines are distinctive.

Their paint and varnish work excellent.

Genuine leather is used for all upholstery —leather not only genuine, but high grade genuine leather.

Their seats are formfitting, deep. comfortable, luxurious.

See the Studebaker SIX, examine it thoroughly, see how carefully every detail is finished—even the tonneau carpet is bound with leather.

Ride in the Studebaker SIX, sense its ease, its roadability.

Then you will realize why at \$1250 it is the greatest "buy" on the automobile market today.

Four-Cylinder Models FOUR Roadster . . . . \$985 FOUR Touring Car . . . FOUR Landau Roadster . . FOUR Every-Weather Car All price for to Drawn

Campbell Motor Car Co. 417 West Fifth Street Phone 281

SIX Touring Sedan

tising columns of the newspapers. "As an example of this, our salesmanager in Atlantic City has just put in an order for nine machines. The sale of these cars and the success of

