

Technical Service a Help to Owner of Car

er grade motor cars, means keeping the easily understood by the initiated. car in highest possible state of efficiency that the wear and tear of con- DESIGNING OF AUTOS

When a men buys a high grade car

it for the enjoyment he expects to However, in the designing depart-

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KOCH'S Bicycle Repair Shop

in motor car construction, it is really ! floor of the retailer's showroom.

OPENS UP WIDE FIELD.

His guarantee, of course, assures him knows there is a motor, transmis-dustry. of satisfactory workmanship, but it is sion, a running gear with wheels and,

get out of it. Naturally the more sat ment of a large automobile company, isfactory the car the more satisfied the like the United States Motor comowner. Perhaps it is trite, but it is pany, for instance, the problem of nevertheless true, that a satisfied creating a new car has much more understood that before something The motor car a few years ago new is placed on the market no small was about as cranky as the leading amount of hard work must be done lady in a first night performance; but before the car can assume tangible today, so great has been the advance shape and be placed on the pelished

218 17th St.

a murmur. Well, perhaps, not without tising man to state that his cars product as the manufacturer of the higher than ordinary tires of the same murmur, because lack of lubrication were designed and built first and their higher priced vehicle. Technical service," as it is under will cause the poor, distressed creature selling price found out afterward. To make one part do the work of stood by the manufacturers of the higher and the manufacturers of factories, every operation is a factor the use of unerring machinery rather well known in advance and, much as than the uncertain hand of the methe advertising man may regret this chanic, to achieve a maximum of comphase, here at least is an instance plications—these are the chief aims To the layman the designing of an where modern factory system has of the modern high class automobile he should buy more than so many automobile may not appear like a overtaken the cut and dried methods designer, pounds of steel, wood and aluminum very formidable undertaking. He of older days in the automobile in-

the duty of both manufacturer and at first blush, only a competent medealer to go farther than this.

Speed is costly. To reverse many erate price designer, for to design a many well known axioms, the saving requires designing skill and research facilities of no mean order.

owner makes a prosperous manufac important aspects, because here it is each producing a motor to do certain as speed increases, so the ratio of work. Both turn out an excellent ar cost runs up. Why should it be differticle, both motors work well, deliver cut in the case of the motor car which the required power with equal relig- is run at top speed all the time? bility. But one costs considerably less to manufacture than the other.

> well versed in foundry practice; he would cost little to maintain, avoided the use of too many loose pieces and cores in pattern work. Here and there he exhibits definess in making it particularly easy to get fact that his machine, by being pushed the sand out of the hollow castings. to the very limit of its capabilities, minimum; blow holes have been ar- a mile a minute or even more. ranged in the most convenient places and have been made large enough to sert the bee population of Illinois was

> two entire cars, designed under the demand it, and its quick restef for same conditions as obtained in the hurns, scalds or cuts is his right. Keep production of the two motors which everything healable and does it quick I used as an illustration, may be Unequaled for piles. Only 25 cen's at equal in quality, but the one may be all druggists.

foundry cost of the motor is reduced and that it is possible to give the

wonderful the amount of abuse a high grade car will and does stand without a murmur. Well perhaps not without tiens man to the automobile adversarial and the automobile and the automob

car of the quality demanded by the many well known axioms, the saving public, to be sald at a moderate price of time is not always a saving motor cars, or in the space of human Take the case of two designers, life, inevitably costs something. Just

Driving a car at its highest speed all the time involves an expense be-Very often it is found that the man youd all proportion to the pleasure who produced the cheaper of the two obtained, and always results in shortmotors happened to be a designer ening the life of the car that ordinarily

Most of us know the motorist who tears through the town with wide open throttle, in gleefull realization of the Core pasting has been reduced to a will attain and maintain a speed of

Bloomington, Ill .-- Apiary experts aspermit the gas to escape freely and decreased in myriads by the long winwithout endangering the castings by ter. Many apiaries are destroyed, the their pressure. The result is that the bees starying.

It Looks Like a Crime

benefit of the savings to the buying to separate a boy from a box of Bucklen's Arnica Salve. His pimples, boils. The point I want to make is that scratches, knocks, sprains and bruises

Automobile Notes

lished by the city of Minneapolis, and around. in it will be stored and maintained all the municipal motor vehicles.

great humanitarian industry the de- and an increase of over a billion dol- in the way of friction. The manufacmands come at all hours, for death waits on no man. Speedy service is remains for motor vehicles to displace in speed on a dry road between a car better than delayed service, particular over 20,000,000 horses in the United with plain treads and one with nonly in case of death, and thus the undertaker has to have an adequate wagon equipment. The undertakers who have taken up the automobile with energy have found that their radius of 1912. Up to December 1, \$27,241 was usefulness has been doubled without collected from fees, and it is believed enlarging their equipment.

products in this line. But several of vantage in racing. The tire factories the characteristic companies are only unite in stating that a car equipped taking up this branch of manufacture with non-skid tires requires only and in future the indications point to enough additional power to counteract A municipal garage will be estab- a larger proportion of non-skids all the additional weight of the treads.

> It is expected that 10,000 automobiles will be registered in Oregon in ment.

present is 6,000. The new numbers About 40 per cent of the total out- have black figures on a green back-

The fact that the surface bearing upon the ground is cut up by the protu-

The census report shows over a berances in the tread is reckoned an million and a half more horses in the advantage in the matter of traction, United States now than 10 years ago, without imposing any disadvantages skids is the almost inappreciable degree resulting from the difference in weight of the respective tire equip-

Puts End to Bad Habit

Things never look bright to one with the number of vehicles registered at "the blues." Ten to one the trouble is a sluggish liver, filling the system with bilious poison, that Dr. King's New Life Pills would expel. Try them. Let the joy of better feelings end "the blues." Best for stomach, liver and The only reason that a tire of the kidneys. 25 cents at all druggists.

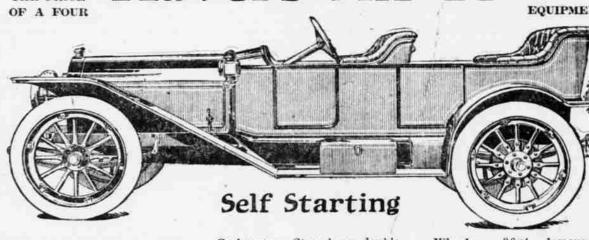
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CAR FOR THE PRICE

CYLINDER Havers Six-44

\$1,850 WITH STANDARD

PRICE



BRIEF SPECIFICATIONS

Motor-Six cylinders in pairs, long stroke, unit power plant, three-point suspension 44 horsepower.

Carburetor-Stromberg double

Clutch-Multiple disc. Rear Axle-Full floating. Cooling-Thermo syphon. Wheel base-122 inches.

Wheels - 36x4, demountable rims.

Weight-3,100 pounds, fully equipped. Color-Brewster green, nickel finish.

The day of the six-cylinder car is here. If you have any doubt, ride behind one and you will never consider a four. The Havers "Six-44" is the greatest proposition for the money on the American market for 1912. This car requires no explanation, no apology, no strong talking points on one part or feature to cover up cheapened or weakened construction elsewhere. It is a mechanically perfect car and in beauty of lines and appearance nothing need be said—the car speaks for itself. Study the specifications from stem to stern, look the car over and you will find everything there as represented -and more too. Do not compare this car in material and construction with cars selling for the same price, but with cars costing from \$2,000 to \$4,000. If you can find any superior features or better mechanical ideas of construction, we shall be glad to have you tell us what they are.

The Havers "Six-44" sell on their merits. We want to see and talk with buyers who know automobiles and those who appreciate a finely constructed machine when they see it ;also that large class of buyers who are in doubt as to just what to buy.

Come and inspect our car. You will not be pressed to buy, and will be shown every courtesy. We do business on a business principle and do not inject the "personal element' 'into our transactions. BUY A SIX THIS YEAR AND BE IN STYLE NEXT YEAR

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