Look Out.

ROAR DISCORDANTLY First Was a Reed Horn and Came from France and Was Followed by the Ejectric light and

the Siren.

The first auto signal horns used to mur-The latest coar discordantly or convinging, and says plainer than shouted

bray hearsely. Their warning is far-flung. sinr coming! Out of the way!"

The Manal bean industry has advanced step by step with the mulding of cars. Withour devices of the present wort, autobilling would not have progressed nearly so rapidly. For the car is rapid motion needs its warning sound far ahead of it. With such a wound a part of the machine.

great sound would have been impracticable. Yet this was the chief been until attention of all expert and progressive

drivers of cars. Along with the old reed horn-it is old by comparison now, though but three years away-came the electric bell and the shaftdriven siren. These signals had precisely

distinct raucous sound. Much scientific study and investigation dropped into a chair unable to say sort of warning sounds. The first problem, and utterly autounded. Then he com-

CARS ON EXHIBITION

GUNCH BLUFFS, IONA.

1000 MAIN ST.

one "Automobile" Then mechanism bad to be devised to make that noise carry a Old Style Was a Mild Request to for the successful signal horn-it must be long way. Then a third factor appeared simple and easy of operation and unfalling. The man or women driving a car at high speed has plenty to do without botherng with a horn. The really valuable horn must be so handy to manage that it works very nearly automatically. The car must almost emit the noise of its own effort. as a welcoming dog barks loudly while on

With the constant improvement and development of the motor car and its acconnories in every conceivable direction, I would sooner or later come. they have come and how fully they answer the needs of the automobilist-this country standing well in the lead in their manu facture-is told in an anectote of which Paris is the scene.

for it. The manufacturers had an agent In the French capital, and they sent a spiomobiling has now attained a measure, preliminary supply over to him. The agent of safety that could have been reached in | made his way to an establishment femous. for its stock of high priced accessories, The first auto signal came from France There happened to be in that shop at that loose and were almost as frequently lost. a reed born The first French moment a count and counters widely The engines were started from the side of difficulty of sticking. machines that were brought to America known in the automobiling world. The the car instead of the front were equipped with it. The reed horn was dealer himself was not very approachable got affective, because it developed too little and looked coldly on the American product, and they often stuck. power. It could not be heard at any great But the French couple, who had plenty of

about the new device attracted them. just three years ago, when the efforts of minds, here was a chance for an interest. Important one, as it meant a large area. four and six-cylinder cars run practically inventors began to make the new types ing diversion. Unwillingly the dealer possible. Once these commenced to get brought out an eight-volt battery-what center and on the side, were used for with mathematical accuracy. the agent said he wanted-and the new steering. horn was connected on. It is an American Europe where a motor car runs now. Then and bells. People knew you were coming ness. it was an untried experiment.

same faults as their contemporary plereing, so thoroughly automobile-like blocks. they had not nearly enough power and no it could have been mistaken for nothing eine than a signal horn-that the counters has been put into making just the proper word. The count seemed half terrified was to invent a poles that should be sud | menced to realize the possibilities of the curious metallic cry that was like nothing else under the sun. "I must have it-

> Fully half a dozen signal horns have been invented the last three years, each with its own peculiar warning cry and mechanism, each having its own enthusiasts. There is scarcely one of these that will not make itself felt at least three-quarters of a mile away over all the other noises engines of extreme lightness. An autoof city streets and through bends in roads and thick woodland. Power of this kind eighteen pounds a horse power, as com- men who have made a special study of the is essential in an automobile horn. Its pared with about 320 pounds a horse warning must reach the ear of every one who may possibly be in the way long before the car arrives or is even in eight. and its sound must not only be distinctive.

The sound of the signal born, experts in cal because musical tones full and soothe. the European four-inch races. It has to alarm and get the man or womans

theory that an automobile is practically a pace than formerly. occomotive, though on a highway with "The motor has been quieted by attenso powerful that no one can possibly miss reliable source of ignition current.

BUYERS WANT A QUIET CAR

is for Auto to Run Without

suliders of motor cars is the quest for quiet course, May 30, that they will be perand it is important not merely as it is a mitted to take their cars all the way desirable and luxurious quality, but more through the long grind if they are in because it evidences sound engineering and satisfactory physical condition and pass fine service to be given through a long life. the examination of the representatives of When there is not a sound to be heard the American Automobile association conin the movement of a motor car there is not tunt board. The drivers have accepted this only pleasure in the performance of the advice with considerable satisfaction, as car, but tangible evidence of harmonious many of them feared they would be govworking balance and sasurance of fine erned by the three-hour limit track and

Loosely made pieces, carelessly put tothings that a lence means.

Early Conditions in Automobile World Contrasted With Those of Today

The speed of a mile in three minutes

was considered fairly good. Stx and twelve-horsepower was consid-

ered enough

Mixing valves were used instead of car- average speed. bursters, and they had a tendency to drip astantly. The weather affected this de-How well vice considerably. In cold weather it was netimes necessary to heat the mixer and affected by the weather.

The radiator consisted of a copper tank. placed in the side of the body, with holes One of the American horns had been running lenthwise for the air to pass perfected and a foreign sale was wanted through and cool the water. A Diteen-mile pletely replaced the chain drive. We are run was sufficient to overheat the amount

of water generally carried. Chain drive was the only form.

Starting handles were frequently carried the period of opening is constant. Me-

The "hit-and-miss" method of low-tendistance, and to build it so as to produce time just then, were curious. Something sion ignition was employed. Quite a good

"Let's hear it," they said. To their it would "hit." The battery space was an Noise and rattle was characteristic. In

long before you arrived. The noise of the It sounded. The noise was so sudden, so transmission alone could be heard for hills.

Every machine fought shy of all hills. but do not find any.

Twenty to thirty horsepower is regarded as desirable for quiet running and a good

Now the float-feed carbureter is used, which does not overflow or drip, and is ear for less money. considered more efficient in gasoline consumption. It is quite automatic and not

The honey-combed radiator is placed in will suffice to run a car for fifty miles or

now quite accustomed to the appearance of a starting handle carried in front of the All valves are now cam-actuated, so that

chanically operated valves eliminate the The high tension and particularly the

Automatic inlet valves were the rule, magneto have not only brought a simplicity and certainty in the firing, but very little space is required.

Wheel steering is now used with excepname: It would "miss" about as often as tion of a few slow-speed electric machines. Quiet running is a leading feature; the Tillers and steering handles, both in the silent. Transmission gearing is now out

Nearly every doctor owns automobiles now and very few have horses at all. The product known and heard in every part of fact, it was not necessary to have borns livery stables are fast going out of busi-

> It is easy for modern cars to climb all Some drivers spend the evening looking for hills which they cannot climb

Auto Has Undergone | Get Expert Advice Great Development

now!" he cried. "Quick! How much is it?" Has Been Improved in Quality by Buyers Often Secure a Much Larger Process of Elimination and Engine Advance.

> "The advent of the automobile was made ossible only by the development of gas power in the old stationary types of gas engines," says E. R. Thomas of the Thomas company.

"The trend of present-day automobile engine design is toward the long stroke. quietness and higher efficiency. The modern long-stroke tendency started largely its manufacture agree, be short, sharp on account of the wonderful speeds atand harsh. Its tone must not be must- tained by cars with long-stroke motors in

"During the last five years the automowho hears it "back to earth" instantly. bile has undergone great development. It ing all day and must stand idle the rest So the automobile signal horn, as it has been improved in quality and cheap- of the time. Frequently it is better to inbeen perfected today, is very much in the ened by the natural method of elimina- stall two light wagons rather than a big mme category as the short, sharp blasts tion of the more unfit constructions. This truck and thereby cover a larger terriof a locomotive whistle. This is on the process is still going on, but at a slower tory, make more trips and operate over

many other classes of traffic. The high- tion to the valve-operating mechanism, to way it travels over-to make the situation, the carburetor and to the exhaust line. more difficult-has no flagmen, no gates, It has been given remarkable flexibility no precautions against accident. Nothing by improvements principally in the carremains to warn the careless pedestrian buretor and valve setting, and the magagainst disaster but a signal that shall be noto has come into its own as the most radiators have been strengthened and increased in cooling efficiency. The cylinder acketing and lubrication have been cared for in such a way that there is no longer any excuse for an overheated motor.

Driving Period Lengthened. The Indianapolis motor speedway management has obtained advance permission to notify drivers entered in the 500-mile Above other present considerations of international sweepstake race over that speedway rule in force in 1910.

the units, but when the car moves down Honey and Tar, which checks the cough the highway with hardly a preceptible dis-urbance to call undue attention there is only the process of the street and expels the cold. M. Stockwell, Hanni-bal, Mo., says: "It beats all the remedies evidence of the surery and reliability by I ever used. I contracted a bad cold and which the car is distinguished from other cough and was threatened with pneumonia. It is not that ellence is valued so One bottle of Foley's Honey and Tar commuch for its own sake, as for the fact pietely cured me." No opiates, just a re-that slience is important for the other liable household medicine. Sold by all druggists.

on Motor Wagons

Truck Than is Needed for Their Business.

There are so many questions that arise when it comes to considering the use of motor wagons in any line of business that mobile engine usually weighs fifteen to the safest course is to get the advice of application of the power vehicle to various lines of monufacture and wholesale and retail trade. Without such device there is always some danger of making the mistake ob buying machines that are not best adapted to the particular conditions prevailing. A not uncommon error is the buying of a truck that is unnecessarily large, for example, and which in a few hours can do all the hauling that previously required two or three teams workdifferent routes simultaneously.

> OWNERS KNOW THEIR CARS Dick Stewart Offers a Number of Remedies for Automobile Troubles

the harmony of the infinite number of working parts which afford to them the phase of tire service. delightful pleasure of annihilating speed and distance," said Dick Stewart last week. four in affording to the owner the real service. To the casual observer it seems an but upon the operator rests the added responsibility of mechanical efficiency. The day is past when owners of cars accept any old excuse such as the muffler being "short circuited" when the car is stalled. Owners of cars quite often know as much about the car as the driver, and therefore are in a position to properly judge the necessary delays. These delays without doubt

are often caused by unreliable ignition. "The carburetor system will rarely give rouble except in case of foul or dirty gasoine. To overcome a delay from this source one needs only to drain off the carbureton or clean out the pipe line, without necessarly changing the carburetor adjustment. If it should become necessary to remove the needle valve or any other parts, a careful note as to their proper replacement should

be made. "With the modern lubricating system rouble seldom arises. As a proper engine lubrication is a most vital feature of conatruction, manufacturers have designed this as fool proof as possible, the only caution being to keep the oil tank properly filled and observe the proper flow through the gauges. The ignition system, owever, is a source of trouble in many ways. Few operators understand it sufficiently to be without a care. When trouble in this mechanism of the automobile occurs, same must be traced, and to do so uickly one must have an intimate knowledge of its workings. The trouble may arise from a number of sources. Assum-ing, as an instance, the use of high tenon magneto, one should first test for yeak compression, then for foul spark plugs. When all wiring is intact this is sually the source of trouble.

However, should the cylinder compres don be found good and the plugs in re pair and clean, the next in order is an inspection of the magneto itself. Assuming all wires free from leakages and the priary connections tight, the trouble will in rariably be found in the timer or circuit breaker. This may be found corroded, precenting a clean making and breaking of the primary circuit. This part cleaned and the points properly adjusted, will invariably uch the spot so to sperk."

HOW TO LOCATE WIRE TROUBLE Before Assembling Ignition and Other Wires Into a Cable Index

Them. It sometimes happens that a fault develops in some one of the several electric circuits about the modern car, with its double ignition system, electric side and tail lamps and possibly one or more dash amps. When this trouble comes is it not pleasant to trace the faulty wire and seet it with accuracy from among its many associates? Decidedly it is not. Particularly is it not when one comes to that part of the wiring where the aggregate wires are formed into a nice cable for their near conveyance between the batteries and the switches. There is a remedy to be had n the form of a cheep box of children's water colors. Before assembling the wires nto the nice, fat cable, hand them every six inches or so with a distinctive color This will prove a great help on many occasions, even though the wires and colors are so numerous as to require indexing.

To Dissolve the Union of stomach, liver and kidney troubles and ture billousness and malaria, take Electric Bitters. Guaranteed. 56c. Beaton Drug Co

AUTOS WILL NOT BE CHEAPER

Manufacturers Prefer to Improve Their Products and Uphold Prices.

A few weeks ago a canvass was made among Detroit manufacturers with the The speed of one mile in - seconds is the idea of getting expert opinions as to the record. Almost any car can make forty future course of automobile prices. Among some fifteen or twenty prominent men it terviewed there was scarcely a dissenting voice in the opinion that the developments would be along the lines of a better car for the same money, rather than the same

Most of all, a buyer wants reliability and service, regardless of whether he spends \$500 or \$5,000 in the purchase of his car. It is truly remarkable that even at front of the car and two buckets of water the lowest prices charged by some of the American manufacturers so great "sine can be had, and that in any standard makefor possibly this should be qualified by saying any standard make been on the market for one reason or more -a buyer can obtain good value and his money's worth. In other words, a prospec tive purchaser is safe in buying almost any American car today. Of course, in the very nature of things, some men profer one type, some another, and it is perfectly true that in the higher range of prices s buyer is offered greater horse power, larger car, and more elegant finish. How ever, from the standpoint of reliability and service. It is safe to say that the lower priced products have demonstrated by actual performance that they are to be thoroughly depended upon.

The Key to the Situation-Hee Want Ads.



Do You Realize the Effect of a Split-Base Rim?

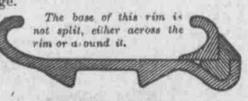
Because water and rust ruin the casing and tube, the Firestone Demountable Rim is made with an unbroken base. Experience shows that rims which separate into halves, or split across the base, let water into the tire. The Firestone rim is designed from the standpoint of the tire maker. It saves tires as well as time and effort in changing them. We avoid show-room display propositions in favor of results in actual service.

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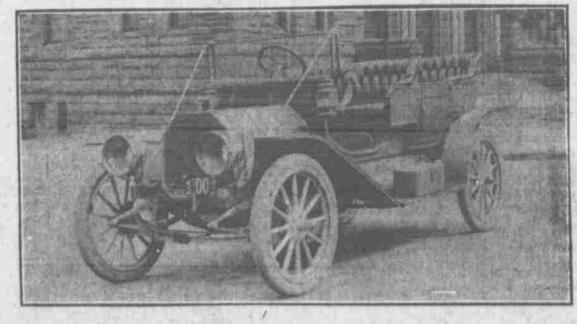
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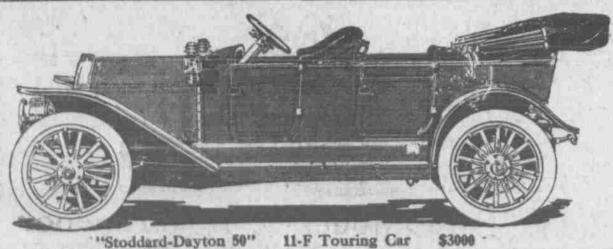
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This car (shown above) is roomy, inxuriously appointed, graceful in design, refined in appearance, strong in construction and very powerful. It is for seven passengers, has front and rear doors. 150-inch whosebase, 36x415 tires. No. 2 Universal Q. D. demountable rims (including 1 extra), 5x415 cylinders, two independent ignition systems (including Bosch D-4 magneto), shock absorbers, robe rail, footrest, five lamps, Prest-O-Lite tank, horn, jack, etc.

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