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GAS PROBLEM IS ONE THAT GROWS

Fluid Distilled Joday Contains Much That Used to Be Known as Kerosene.

ENGINEERING SHOWS RESULTS

Intake Manifolds Are Being Designed to Give Just Right Amount of Heat to Vaporize Last Drop of Gasoline.

swallow these days.

The poor gas problem is one which has grown with the motor indulyry. The first few "largetees currents partial above an effect of the problem of the p

A Worthy Ambition.

A Worthy Ambition.
The ambition of the modern motor engineer is to introduce into the combistion chamber the most rapidity burning fact possible. When the fact refers in drops only the external surface of the drop is exposed to the spark. It is necessary to expresse to the spark, and the combistion is complete. If fact can be reduced to a true gas, that is still better. Even with the best centimeter now obtainable the gastoline is only partly vaporized.

Even with the best carburetor now obtainable the gashine is only partly vaporized.

It would be simple to apply enough learn to make the fluid into a true gris, but another difficulty enters here. As the gas is heated it expands, it becomes "thinney" there is less prove comes "thinney" there is less prove comes "thinney" there is less proven the compart of the combustion of the combustio

Into which the heavier particles drop, to be heated.

Beset With Difficulties.

Most hot devices consider another trait of the stubborn little drop of gasoline—clinica to the dry wall, of the intake manifold and thus steaking into the combustion chamber without being vaporized. The most paper has a property of the intake manifold so that there is a sharp corner in the internal wall. The unsuspecting drop of pas crosps along the wall outly transches the center. There the rush of vaporized ras into the manifold gots a sweep at fit. It is as if the mas drop had straight

a wind-form and it is finited on a syspace.

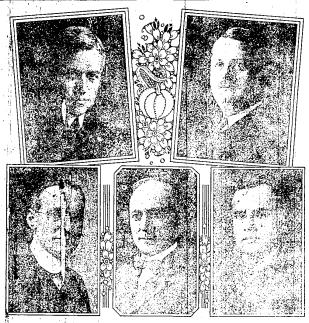
Applications of these general principles in this year's cars include a combination manifold and carbarrers with dampers for regulating the supply of heat, a corrugated interference of the state state of the state of the state of the state state of the state of the

Famous Rocking Stone.
Of the rocking stone, just west of
the buffulo range in Bronx park, New
York city, tradition says that sachems and medicine men of the various Indian tribes built their council
fires about this colessal cube of pinktah grantle.

Couldn't Stand That.

When I was a youngster we lived on a farm, and as my parents were derived their members the preachers and their families were always welcome to come at any time. I had quite a case on the preacher's young the sts son, a land of ten years. One day they all drove into the yard just a stand, and it may be set son, a land of ten years. One day they all drove into the yard just as they have been in the cylinders, and that to "wait" while the preacher folks. And I hungrily watched my young love and is hungrily watched my young love and stylenges of chicken and there was none left for us. That could be represented to per young love are six plees of chicken and there was none left for us. That is claimed, will be clike can in half the usual distance at a prevent skild ding.

STATE FAIR EXECUTIVE BODY



Michigan Stafe Fair Executive Committee—Upper left, Charles T., Frezeett, Tewas City, upper right, Thomas E. Newton Detroit; below, left to right, Clark L. Srody, Lansing, John S. Hoggerty, Detroit.

Heading the executive committee pucker, charles T. Prescoti, Tawas lost knewn pure bred lives of the Michigan State Fair, which City, and Clarke L. Brody, of Lannagers, land agreement charge of the business since is mare associated with Mr. Hall institute which has been an inclusion of the board of managers, la former prescribed and counsel with G. W. The function of this committee is since its storigh.

The function of this committee is since its storigh.

The function of this committee is sorigh. In 181 and 1912, Thomas E. Newton Chairman Haggerty, a former prescribed in the fair's succeeding to D. Mr. Haggerty was one of the state fair, and much of the fair's succeeding to D. Mr. Haggerty was one of the state of the

YOU AUTO, KNOW

YOU AUTO, KNOW
That a battery is 1 were as ofneton, in cold wearly as it is
in starm—swain to 5 minber of
coulses. In the first of 5 and 1 and

do citi for taken gours and the sediment from 1° plates channel out, if this is die in the spring, the energy crit ford during the summer will us aftly carry the hadrey through the succooling wifeer without its tribule.

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SERVING TABLE FOR AN AUTOMOBILE



AUTONIOGILE

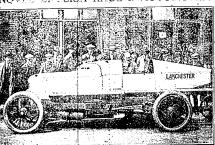
A motorist should be as clever in backing a cur as he is when driving browned.

Drewhrd,
Two-thirds of all breakdowns are caused by improper a insufficient tubrication.

A shipping clutch is not only a bitrain on the engine but causes waste of power and fuel.

B too inserting a spark ping, apply strainlife in powdered form to the firstills. The pluss edge thus he removed easily, no nunter how long they have been in the cylinders,

REGUSSIP NOVEL ENGLISH RACING AUTOMOBILE



The new Lanchester racing cur, which is entered in many of the English nato classics. The driver of the machine is entirely covered in, the machine being constructed along modern and improved plans. A feature of the construction is the series of byces running from the engine to the tail of the car, through which the hot aft is carried of the car, through which the hot aft is carried or.