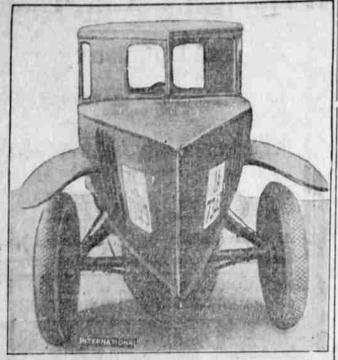
FINE EXAMPLE OF PUTTING CART BEFORE HORSE IN RUMPLER AUTO



New Motorcar With Smallest Head Resistance.

Herr Rumpler, the well known Ger-, der to produce this car he took as a man airplane constructor, has just pro-



View of Car From Above.

duced a new motorcar which he claims stuatiest possible head resistance of any car on the market. In or- | wings used as mud-guards.

and body the shape assumed by rain-drops fulling through the air. A rain-drop is forced into a perfect stream-lined form in the air resistance. The motor and transmission form a unit that is mounted to swing about the rear axis, thus doing away with the propeller shaft and universal joints. propeller shaft and universal joints, and forming a very compact power piant. The motor, which is of the "Y" type, has six cylinders and is arranged in pairs. It is of the type used by An-zant, having one pair of cylinders vertical in the center of the "Y." The radiator is behind the motor, giving perfect cooling by means of a fan. The back of the auto resembles an airship car and has a sent for the chauf-feur in the bow. The chams is made of a wide frame of pressed steel, shaped into a boaf, and it is closed in and streamlined on the bottom. This car, which is only a ten-horsepower af-fair, can, because of the slight resistince, make 75 miles un hour. The whole construction is a fine example of "putting the cart before the horse," It is a return to first principles of scientific interest. Note the rudimentary

for streamlining the cha

GREASE USED IN SEVERE WEATHER

Has Distinct Drawbacks as Lubricant for Automobile During Winter Season.

GEARS OPERATE ENTIRELY DRY

When Used in Cups It Has Charac teristic of Getting So Hard That Little Lubrication Gets to Bearing Surface.

For several years past no wise motorist has used grease as a lubricant for his transmission, yet many car owners who ought to know better emplay this heavier lubricant, Grease cannot flow to the hearing surfaces and in the transmission the gears out a clean path through the grosse when It is cold and run practically unlated-cated thereafter. In addition, greare has the unfortunate characteristic of carrying dirt and foreign matter that it may pick up. It has distinct drawbacks as a labricant in any expecially in cold weather, when it ought never to be used. In winter the grease is almost excitan to becase in which it is used, while the gwars operate entirely dry.

When grease is used in cups, it has the characteristic of getting bord, so that the cup ranger be turned down property, and little inherication gets to the bearing surface for which it is in-

On practically all curs of any lest the most recent vintage groups cups are fitted at various becauses. If the owner desires to substitute all as a lubricant for the greate he has prac-In many cases this would be worth the incressed labor.

Wick Feed Devices.

On the other hand, it may be possible to replace the grades cups with harge oil cups laxing gradual tood. Some of the namer car models bays been designed with central intelecting points and with whek owing devices. which require represidenced only more which require repositioned only more or twice a season. At any rate the substitution of oil for greener for almost any interfect in service will be a benefit to the posts affected.

charden require different belowants that is to say, different gradus of all. For the goars, the transmission, differential and rear wale, a heavy of with be the innet self-factory latercest. The last year or so has seen a comp-

ber of extremely ingentions of cups of operation thereof,

fered to the metering public, some of them embedying a gradual feed, achieved by means of constricted pas-sages that allow the oil to leak out only by degrees. Others employ what is known as wick feed, in which the oil is carried up in a wick and fed gradually to the part needing lubrication. For such places as the shackle holts of the springs, the cross shafts of the brakes, the universal joints, in some types this makes a satisfactory

Use of Graphite.

It has always been the custom to inbricate universal joints by means of greass or graphile, because there is great difficulty in keeping oil in the joint. This part moves with great rapidity when the mechanism is in operation and needs the most effective lubrication. Recently it has been found possible to lubricate the universals by means of ell fed through wicks. In many cases this change usual have to be the result of altered design, which the manufacturer is louth to do because of the cost. Wick feed has the double advantage

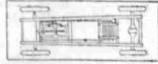
of being economical as well as effithe wick by capillary attraction, Jusus if does up a lamp wick, and is discharged upon the surface requiring indiciention. The oil spreads itself all over the whole surface, and really this nethed is the next heat those t ing the parts run in oil. The wick of cup these not require frequent filling and another advantage of the system is that dirt or foreign matter, even if it is present in the oil, cannot make its way to the bearing surface.

NEW ANTI-FREEZING DEVICE

Apparatus May Be Attached to Automobile Without Interfers ence With Running.

The Scientific American is illustrat ing and describing an anti-freezing de-Alberto, Canado, says:

biles and other vehicles using water coled motors and purticularly to antireveing dievices in connection with



A Top Plan View of Chassis Showin neation Tank and Condenses Coil at Rear.



Facts you should know when you buy a car

The question of greatest importance is not what you will be allowed for your old car but the price you pay for the new car and the value received.

You are money out if allowed \$100 more for your old car, yet have to pay a \$150 higher liet price for a new car when the comparative value is not there.

A purchaser's loss is only postponed when trading alolwances are made above a used car's real value. The deal that may appear most satisfactory to you in the beginning may prove to be the most expensive in the end.

No one receives anything gratuitously in this world-don't be misled by false allowances.

We believe that any sales policy which encourages the giving of fictitious values for used cars is an injustice to the public. We wish to establish definitely the fact that the Buick Motor Company has never followed this policyrather has always based the price of its product upon actual costs and when costs came down cor. respondingly reduced the prices of its cars to the public without any camouflage whatsoever.

BUICK FOURS

22-Four-34	Two Passenger Roadster\$	895
		935
		295
22-Four-37	Five Passenger Sedan 1	395

BUICK SIXES

22-Six-44 Three Passenger Roadster	1365
	1395
22-Six-46 Three Passenger Coupe	1885
22-Six-47 Five Passenger Sedan	2165
22-Six-48 Four Passenger Coupe	2075
22-Six-49 Seven Passenger Touring	1585
22-Six-50 Seven Passenger Sedan	2375

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WARNING TO DRIVER BY FLASH OF LIGHT

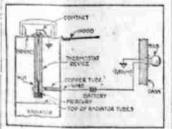
Homemade and Effective Hot-Motor Alarm for Autos.

Any Man With a Little Mechanical Ability Can Construct Device-Main Tube of Thermostat Is Made of Bakelite,

Below is an Ulustration that shows a homemade and very effective het-motor alarm. Any car owner with a little mechanical ability can easily build one. The sketch shows a section of the radiator at the top of the water chamber. The main tube of the thermostat device is made of bakeline at one of the impregnated bakeline fibers that is water and steam proof. The top of this tube is threaded into a bracket which is in turn soldered the registers of such motors, and has for its object the prevention of less by relatilization of the relative per those of sulf-freezing solutions commonly used. The result is accommonly used. The result is accommonly used to be an apparatus capable of ready affinement in an automobile of ready affinement in an automobile without interference with the normal operation thereof.

thus making a ground connection on the cur.

After the device is assembled the sopper tube is soldered in place and wire led out through it to a small tiomp on the dash. The circuit is



When the Engine Becomes Overheated, the Driver Is Warned by the Flash of the Dashboard Lamp.

the car as shown. The mercury cham-ber is threaded onto the thermostat tube so that the device can be ad-

is also led out through a brass ribbon | temperature, the motor is dangerous-

ly overheated and needs attention. At that point the mercury is so expanded that it rises in the tube and comlamp.-Popular Science Monthly,

AUTOMOBILE

Automobiles in Wisconsin represent un investment of \$138,831,000.

The American farmer is considered the keenest buyer of automobiles.

Gusoline costs 88 centuvos (44 cents) a gation in Mexico.

The membership of the Automobile association in London totals more than

Automotive experts from the United States fast year exceeded \$330,000,000, geing to 114 countries.

A new stram automobile is to make its appearance on the market in a short time to sell at about \$1,000.

Ontario leads all other provinces in Canada in the registration of automobiles; Saskatchewan ranks second.

SEE HOW YOUR

BATTE

The process of manufacture in pictures.

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THE RESIDENCE AND PROPERTY OF THE PARTY OF T