## In the Automobile World

#### NEW DEVICE MAY BE FINAL SOURCE

agree, will be electric, yet without line car. the bother, little power and short life afforded by the storage battery

type of electric automobiles to-day. The discovery is a way of producing permanent electricity in what Professor Mototaro Eguchi of the Higher Naval College at Tokyo calls by a Norwegian civil engineer. It a "permanent electret." The per- is known as "Norsk Kraft Olle." what the permanent magnet is to mechanics.

Its possibilities haven't even been thought of, because it is still in its experimental stage. But It has the same prospects, if not greater, in the field of practical electrics as the permanent magnet had in the field of practical mechanics, when it was invented back in 1600.

The automobile is one of the "electret's" future fields. Underneath hoods of the future may be devices based on Eguchi's electret. replacing with much higher effi- 000 to fake motoring organizations. ciency the gasoline and steam power It is difficult to convict promoters of plants of to-day.

it is to-day, has been shown to keep the project. its electric charge, up to 20,000 volts to a centimeter of surface, since 1919, when it was first made, without a loss.

manent magnet, the permanent elec- surfaced roads, a considerable miletret may be the motive power of age has been graded and drained acautomobiles -- among the many other cording to engineering standards.

r Bonnomical Transportation

If you wish to

uy your Chevro-

let on time, the

nearest thing to

GMAC plan-

own plan for sell-ing its cars on time, which is available to our

possibilities it was in the future. Until that stage arrives, there may still be a transition-perhaps OF MOTOR POWER from the gasoline to the steam car. That sounds surprising since the A discovery just made by a Jap- steam car once enjoyed greater popuanese scientist may be the final stage larity than it has to-day, and since in the perfection of the automobile. there seems to be little discussion That final stage, many engineers over the permanence of the gaso-

#### Synthetic Gasoling.

Synthetic gasoline is being invented in nearly every civilized country in the world. The latest The process under which it is made has been patented.

Speeding Unnecessary. Tests conducted by motor o-ubs in various districts of the country show that speeding gains little time. A person who follows all rules will arrive at his destination almost as quickly as the motorist who breaks the rules.

Fake Motor Clubs. Motorists of the United States annually pay out more than \$30,000,these organizations as they always The electret, as crudely shaped as claim that they had good faith in

Good Roads Increase. The mileage of surfaced roads in the United States is nearing the Thus, somewhat like the per- 500,000 mile mark. In addition to

Full protection in any weather-

comfort in winter-snugness

against snow, sleet, and rain-that's

what you enjoy when you drive the

Fine quality curtains, carefully tail-

ored and close fitting, keep the cold

out and warmth in. Entrance and

exit to both seats are unhampered

and free because the curtains are

supported by rigid rods and swing

The Chevrolet touring is the lowest-

priced car of equal quality and equip-ment on the market. It offers all the

advantages of economical operation all

the year around: an open car for the

open road in summer and snug comfort for winter driving.

Come in! Satisfy yourself that here is a

low-priced touring car that offers real

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'Phone 9.

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T. J. ALEXANDER, Arden, Ont.

Dressing Contact Points

THE TUNGSTEN OR platinum points of the ignition make-andbreak, the magneto and the reverse current cut-out of the generator become dirty and eventually wear so rough as to make uncertain contact.

Glass-Hard Tungsten Points Except on magnetos and some battery cut-outs, these points are

discharged and if it remains in this

condition too long, they will be ruined. You should have it fully charged and filled with liquid and

keep it from becoming discharged

until it is instatled on the car again,

Unless one has some private means

of charging, the best way of caring

for such a battery is to store it,

during its idle period, at a battery

service station, where it will be

kept charged and otherwise looked

after. The cost of this service is

DRIVING-GEAR ADJUSTMENT

E. W. writes: I have just in-

stailed a new pinton and ring-gear

in my ---- car and find that the drive is quiet, when the engine is

pulling, but that it makes a grind-

ing noise when the car is coasting.

How can this noise be eliminated?

pair manual of this make of car. you will find this subject much

more fully treated than we can treat it in a letter. The best method of adjustment is based

upon coating the pinion teeth with prussian blue, turning the axie by hand and determining the tooth contact by noting to what parts of

the ring-gear teeth, the blue is transferred. These contact marks should cover from one-third to onehalf of the tooth length from the inside or toe of the tooth and the

Answer: If you can obtain a re-

ever it may again be needed.

usually of tungsten, so hard that they cannot be filed as can the platinum points so generally used years ago. Honing Tungsten Contacts

Tungsten points can, however, be smoothed by the use of a stone hone, special small thin forms of which are on the market. The contacts are opened widely enough to admit the hone, each side of which smooths off one of the contacts, when they are pressed together with light pressure and the hone drawn back and forth between them. No more metal than necessary should be removed and the surfaces of the points should be left so that, when together, they touch flatly, thus making contact over their full surfaces.

Smoothing With Sandpaper Contact points can also be cleaned and smoothed by means of a piece of tine sandpaper, doubled with the sanded surface out, which is drawn between them when they are lightly held together. A thin, fine jeweler's file is suitable for use on magneto points or any points of soft metal, but one should be careful not to waste any of the expensive metal.

RING LEAK OR VALVE LEAK | plates of this battery to let it stand



W. A. M. writes: On testing the compression in the cylinders of my six engine. I find that there sures the well being of the battery is quite an escape of gas from No. and its readiness for service whenor the piston-rings must be leaky. but cannot tell which. What test can I use to settle this point?

Answer: Remove the spark-plug and introduce into the cylinder about a fluid ounce of heavy engine oil (air cooled engine oil would be good), replace the plug and hand-crank the engine with all other plugs removed. The heavy oil will seal the piston and if compression is then found to be well retained it will indicate that the leak is past the rings. If no improvement is noted, the leakage is through the valves. A leak past a piston into the crank-case, can usnally be heard as a hissing noise at the breather (oil-filter) opening A rubber hose can be used to listen through. With the exhaust manifold off, an exhaust valve leak can usually be heard at the exhaust port and inlet valve leakage may be audible at the carburetor air-



E. S. asks: How should a bat. out of mesh until this adjustment tery be cared for, when it has been is obtained. The presence of coast-taken out of the car? I have one ing noise usually indicates that the that was removed about a month pipion is adjusted too far back toago and is now run down and am ward the rear of the car. Try setwondering if the plates will be ting it a little further forward. damaged.

Answer: It will damage the the prussian blue method

checking up the tooth contact by Choosing A New Car.

Demand Up-To-Date Features In The Vehicle Of Your Selection

THE MOTORIST who has not acquired a new car for a number of years and who is now intending to do so, naturally wishes to secure one embodying as many as possible of the improvements which have recently been made and the following partial resume of such advances in the art is offered to refresh the memories of such intending pur-

The Engine Itself

Stiffer and better balanced crankshafts, supported in more numerous bearings. Vibration, dampening devices and supporting methods that check vibration. Piston-ring equipments, which better retain compression and control oil pumping. Interchangeable bearing bushings, which eliminate the need of bearing adjustment. Positive lubrication of all important bearings by direct pressure feed of oil. More convenient oil drains. Cylinder heads, that detach without disturbing water connections. The use of silent chain timing drives, that are readily adjustable. Placing the exhaust pipe where it does not overheat the car floor, gas rectifiers for distilling gasoline and water from engine oil and filters for removing solid impurities therefrom. Air cleaners to keep abrasive dust out of the engine. Gasoline filters to keep water and solids from clogging the carburetor. Better hot-spot manifolds, to improve fuel vaporization and reduca carbonization and oil dilution. Full automatic spark control. Carburetors of superior fuel economy and accelerative ability. Thermostats and shutters (manual and automatic) to control water temperature.

The Brakes And Steering Gear Four wheel brakes-the great outstanding recent advance in motor cars-of the mechanical and hydraulic types, some of them embodying the self applying feature. Improved protection of braking surfaces from the weather and more accessible and convenient adjustments. Interchangeable brake-shoes, which facilitate relining service, Transmission brakes, which are weatherproof and easy to care for. Steering knuckles with anti-friction thrust bearings, steering devices with variable gear ratios and ratios adapted to balloon tires. Antishimmying provisions.

Chassis And Transmission Parts

Lower bung frames and bodies, longer lived clutches, operated with less effort and with automatically or more conveniently lubricated throw-outs. Universals that are automatically or more readily offed and which better retain jubricant. Transmissions with shorter shifting movements and with gears which engage easier. Lubrication of spring bolts and steering joints by one operation of a magazine otlar. Built-in bumper fittings, which hold bumpers securely Better general accessibility and demountability of units and fewer lubrication points. Improved devices for locking gears, ignition and steering gear. Tilting and otherwise less glaring as well as more effective headlights. Backing lights and traffic signal lights,

Three Big Advances Balloan tires and lacquer finish are two of the epoch-making innovations and the coach type of enclosed body, which has placed winter driving comfort within reach of motorists of moderate means, is a development of incalculable significance.

OIL FOR LAID-UP ENGINE THE OIL OUT



se taid up for the winter, is it ad deable to drain the engine of oit

walls and presible sticking of the pistone it is usual to inject about a tablespoonful of fresh oil into each cylinder before leaving the doubtful.

jengine. It is a good idea to handcrank the engine over a turn or two each fortnight, during the period of the lay-up, to prevent the pistons from becoming set in their

AUXIIRARY WATER PUMP O. H. N. asks: Will it improve the running of my Ford engine, i I put on one of the auxiliary water namps, which are run by the fan

Answer: It should speed up the water circulation, make the radiafor somewhat more active and thus tend to lower the average engine temparture it you want to bring Answer: No. it is considered better practice to draw off the used oil and refill with fresh. This in sures the removal of any water which may have collected in the oil pan and which might freeze and leaves the angular result. Our experience indicates the removal of the might freeze and the Ford thermosiphen cooling systems. leaves the engine ready to be tem. by letting the engine run started at any time. To guard rather hot, conduces to good fuel against rusting of the cylinder economy and flexibility and that the

Questions of general interest to the motorist will be answered by Mr. Clough in this column, space permitting. It an immediate answer is desired, enclose self-addressed, stamped envelope.

## Vast Expansion w Advanced Equipment New Prices Possible

The history of Dodge Brothers and their subsidiaries' drastic price reductions is simple and brief.

A better and better product followed by greater and greater demand.

To meet that demand, an expansion of buildings and equipment involving an expenditure of more than \$10,000,000.

Output vastly increased, with subsequent reduction in the cost of materials and production.

Installation of advanced labor-saving and qualityincreasing equipment. For instance, one giant steel-body press costing \$10,000 replaces ten former presses costing \$7,500 each, and does the work more efficiently. Result: The figest line of vehicles in Dodge Brothers history at prices that seem incredible in view of Dodge Brothers traditional quality-

That seem more incredible still when considered in connection with improvements that include-

Rich and attractive colors. Smart and stylish body lines. Four dependable cylinders. Absolute smoothness of engine operation. Greater power, and and elasticity.

And advanced steel body and windshield construction that afford exceptional driving vision at a time when clear vision and safety are paramount in the mind of every motorist.

Touring Car		•		\$1095
Roadster -	•		•	1095
Coupe -	•	•		1170
Standard Sed	an			1235
De Luxe Sed	an			1485
E a h Tom	ata (	Town	F-t-	

M. OBERNDORFFER
124 CLARENCE STREET

### Dodge Brothers MOTOR CARS

MADE IN CANADA

# MILLORS



Chrysler's record of the past two years looms as one of the most brilliant in the motor car industry.

Canada and the rest of the world have bought more than 280 million dollars' worth of cars of Chrysler manufacture since the Chrysler was introduced just two years ago.

In the quarter of a century that preceded the coming of the Chrysler, there is nothing in the industry remotely approaching this overwhelming Chrysler popularity.

Here is recorded a most significant tribute. Not only to those supreme superiorities with which the first Chrysler sounded a new note in motor car engineering and craftsmanships but also to the later refinements in performance, beauty and comfort which - with the addition of the new Chrysler Imperial "80" to the Chrysler "70" and the Chrysler "58" now offered at electrifying new low prices-have immeasurably increased Chrysler's leadership.

# 

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#### New Records New Prices! Graham Brothers Truck sales for 1925 were the largest in their history.

The previous record breaking year was surpassed by 123 per cent. Such healthy increases in demand require proportionate increases in production.

Graham Brothers four factories are now equipped for larger output than ever before. They are therefore able to give truck buyers the benefit of still further savings-Savings that are now passed along in the form of another substantial price re-duction—the fourth such reduction in eight months!

NEW PRICES 1 Ton Chassis - - - - \$1350 11/2 Ton Chassis - - - -MBM Low Chassis - - - f. o. b. Toronto, taxes antra M. OBERNDORFFER

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