

In The World of Easy Travel

Stitches in Time.

Keep a watchful eye on the king bolt in the steering knuckle. If it wears through the axle will drop and a severe accident may follow. If the knuckle through which it passes seems out of true the bolt is wearing and becoming weaker. Keep it well greased through the grease cup on top and you will delay this danger almost indefinitely.

Do not think because the magnet gives you such faithful service that it never has troubles of its own. You probably give it a drop of oil in each oil lead once a week. But the distributor should be cleaned occasionally, using a brush or a piece of cloth dipped in gasoline. The dust which accumulates on it will soon short-circuit it, causing engine to miss explosions. Dust sometimes accumulates

inside the distributor, which must be removed for cleaning. Another trouble is pitting of the platinum points of the circuit breaker. When this occurs no current can run at all. If this trouble is suspected run a strip of fine (not coarse) emery cloth between the points a few times. Do not attempt to file them. If circuit-breaker gap is out of adjustment or any other magneto trouble develops, do not attempt to remedy it yourself.

In order to get the best service from your tires it will be necessary to keep careful track of the number of miles run. Get a mileage book at a tire agency or rule a memorandum book for the proper entries. Have a page for each tire or tube and identify it by the manufacturer's number. Have six columns as follows: Date put on and speedometer reading. Date removed and speedometer reading. Miles run. Total miles to date. If you have no speedometer it will be necessary to estimate mileage by the number of hours run.

If the carburetor catches fire do not give way to panic. Shut off the gasoline at the tank and start the motor if possible. A self-starter is useful here, but one should spin it by hand if necessary. This draws the flame into the carburetor, where it will do no harm. Water from the radiator may be thrown on burning woodwork, but never throw water on a pool of burning gasoline on the floor, as it only spreads the fire.

Novel among parasols for motor use is one of navy blue Dresden silk with a yellow silk lining with gray bird pattern. The parasol is gathered between each rib, has a folding natural wood handle, and a specially strong frame.

An extension lamp should be part of the equipment of every car. Get a socket and fasten it to some convenient part of the dash and tap your leads at some convenient part of the circuit—usually the first box at the front. The long cord enables you to reach any part of the car. Get the same kind of lamp and socket as is used on your car; either single wire or double wire. Then if the cord will not reach to the back of the car you can use the socket in the tail lamp.

When changing detachable wheels, cover the metal parts that come together with grease. Otherwise they will rust and you will find it difficult or impossible to separate them.

Overnight bags made of fine grained black walrus leather in Boston bag shape are rather new and seem to be well liked by those who have used them. They are lined with pale tan leather or a fancy lining chintz, which is as durable as the leather. The bags are unfitted.

The best grinding material for engine valves is carborundum, although emery is very good. Use the compound which contains it ready mixed. If none is obtainable, buy 120-degree emery if valves are badly pitted, finishing with flour emery. Mix with oil to a paste like thick cream. This will do the work, but is not as good as the compound.

In case the spring squeaks, it will not be necessary to remove it in order to oil. Jack up frame to take weight of car off spring, remove the clips that hold spring leaves together and pry leaves apart with screwdriver or cold chisel. Graphite grease should then be spread over every leaf, using a table knife or thin piece of metal.

This Prevents Tracking.
Many a gear-box has been ruined by using unsuitable lubricants, and many an owner has viewed with dismay the condition of his gears, although he has superficially taken all precautions, keeping the gear-box well supplied with grease. It is not generally known that if a suitable lubricant is not used the gears will "track"; or, in other words, will displace the grease, and leave a clear channel for them to revolve dry, with disastrous results. To obviate this a thicker-than-oil lubricant must be used, and doing so considerably quiets the running.

Connecting Carburetor and Intake.
When connecting the carburetor to the intake manifold of the engine it should not be necessary to "drift" the bolt holes in the flanges of the couplings in order to bring them into line. If the piping is in good order it should go into place without difficulty. If it does not, it is usually the case that the difficulty may be rectified by altering the position of the carburetor on its bracket. Bringing the parts into line by main force and awkwardness is very apt to strain the joints.

NEWEST NOTES OF SCIENCE

Dried orange and lemon peel are good substitutes for kindling wood. Traces of copper are found over almost one-third of the area of Chile. Glycerine applied to the glass stoppers of bottles will prevent them sticking.

Steam-driven motor omnibuses that use coke for fuel are being tried in London.

A California inventor has patented curved shears for cutting corrugated metals.

An Italian has invented a holder for a boiled egg that clamps to the side of a plate.

A new rack for covers: tooth brushes is covered by a box that protects them from dust.

Brazil has prohibited the use of preservatives in almost all kinds of food and beverages.

A new spirit level for use in dark places is equipped with a dry battery incandescent lamp.

Paper machinery belting, as well as cordage and yarn, is being successfully made in Austria.

Bales of cement-covered straw have been used by a Colorado farmer to build a six-room house.

A new manhole guard for street work can be folded very compactly for carrying when not in use.

An Englishman has built a tug-boat that is driven by an aerial propeller for use on shallow streams.

Steam from a small portable boiler is fed through hose to a new device for removing paper from walls.

A German is the inventor of a combined cane and umbrella, which also can be unfolded to form a camp stool.

To remove the cocoons of certain insects from trees a loop of wire at the end of a pole has been patented.

A Paris theatre has a reversible floor; one side being intended for dancing and the other holding the seats.

Piano stools that are adjustable to several angles as well as heights have been patented by a Chicago inventor.

The Peruvian Congress has offered a prize of nearly \$500 for the best text-book from which to teach temperance in the public schools of that country.

Short telescopes take the place of lenses in spectacles of German invention for extremely nearsighted persons.

Shutters that can be operated from a driver's seat have been invented to protect automobile radiators from freezing.

For ironing laces and other light fabrics an Englishman has invented a polished steel roller, heated by electricity.

For cleaning tobacco pipes a bulb operated by the mouth has been invented. The end of the tube fitting tightly over the bowl.

In Bombay the tank and outlets of a century old street sprinkler have been mounted on the chassis of a modern motor truck.

Toothed blocks for carrying large pieces of ice for which a patent has been issued are said to have advantages over tongs.

The governments of Brazil and Peru have combined to maintain a chain of wireless stations all the way across South America.

For men who have much writing to do out of doors a desk that can be suspended from the shoulders by harness has been invented.

Electrical apparatus that warns miners of roof movements in mines in time for them to escape has been invented by an Australian.

A new lock for automobiles will secure robes or baggage on a rail or can be used to fasten the steering gear against being moved.

French scientists who have investigated have found that rubber is subject to attacks by microbes unless kept in perfectly dry air.

A new type of incandescent lamp has the filament concentrated into a small spiral to give it greater vertical distribution of light.

So bluminous is the clay found in one place in England that bricks made from it yield oil, gas and ammonia when heated in retorts.

Radiating arms which form the top of a new camp stove fold down like an umbrella into a tube which constitutes its body and support.

An inventor in Australia has given a piano a slightly curved keyboard to

enable a player to reach all parts of it with equal effort.

Up to 150 letters a minute can be opened with a new office device in which a hand-operated crank feeds them between circular knives.

For future identification of criminals, a Paris physician has suggested subcutaneous injections of wax to form permanent membranous cysts.

A steel helmet that also can be used as an intrenching tool and to hold food is the invention of a former member of the United States army.

That mulberry leaves for feeding silkworms can be kept fresh indefinitely in cold storage has been discovered by an Italian sericulturist.

An Iowa inventor has obtained a patent upon a unicycle that is driven by an electric motor and prevented from falling by gyroscopic fly wheels.

Experimenters in Germany have found that ramie fiber and silk make better incandescent gas light mantles than cotton, which generally is used.

A new egg boiler for breakfast tables is operated by an alcohol lamp which holds only enough fuel to cook its contents for a predetermined time.

Industrial alcohol is being made from the waste from two Swedish wood-pulp mills that use the sul-

phite process, heretofore considered worthless.

Spring wire clips have been invented which, when fastened to an ordinary pen, permit it to hold enough ink to be a fair imitation of a fountain pen.

China imports great quantities of old newspapers from the United States to manufacture into a thin paper for the inner wrappings of rolls of silk.

For home-use a billiard table has been invented that can be clamped to any table of sufficient size and leveled with screw blocks at each corner.

An automatic stabilizer for aeroplanes, employing electricity, but not a gyroscope, and weighing less than twenty pounds, has been invented by a Chicagoan.

That drainage waters do not take any more plant food away from fertilized soils than from unfertilized has been indicated by experiments in Germany.

The United States, which leads the world in the use of crude cocoa, last year imported more than 213,000,000 pounds, establishing a new high record.

The Government of Panama has granted a concession for the establishment and maintenance of electric

plants and telephone systems throughout the republic.

A recently patented coat and hat hanger which can be carried in a pocket and attached to any wooden surface without tools will sustain a weight of 60 pounds.

To increase the power of microscopes an Austrian scientist utilizes ultra-violet rays, which, though invisible to the eye, are highly effective in photography.

A wayside station for automobilists that an Illinois man has patented delivers gasoline from accurately marked glass tanks, so a purchaser can see what he is getting.

Look Out For the Cables.
Where brakes are operated by wire cables the latter should frequently be inspected, especially at places where they pass round a bend or in such positions where they are liable to chafe. After a strand or two of the cable has gone, the rest soon follow, with the result that the cable is liable to give way at the critical moment.

The motor car is a sound investment that pays dividends in all directions.

Tire Repairs

We desire to announce to automobile owners that we have installed the most up-to-date vulcanizing plant between Toronto and Montreal.

ITS OPERATION

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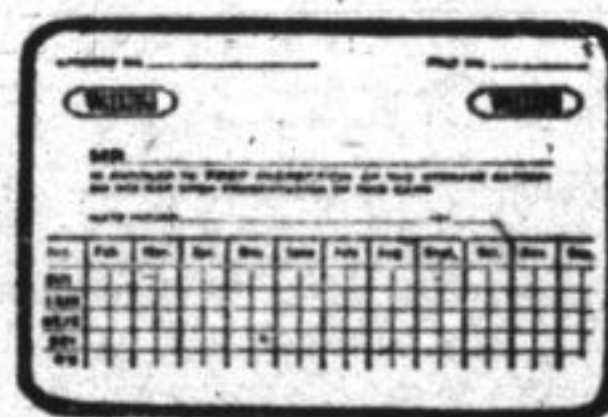
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