

Gifts That Last

An unusually large stock of Staple Jewelry to select from.

Umbrella bases fitted to any make of detachable handles at no extra cost.

Letcher & Son

Expert Watch Makers

106 South Sixth St.

FOR CASH ONLY

During the balance of the month we are going to give you some real bargains in Lee Tires. Now is the time to put on new tires. Prepare for the winter weather.

LEE FABRICS

Size 32x3 1/2—Six going at Special Price of \$23.80 each. Old Price \$29.15 each.
Size 32x4—Eight going at Special Price of \$30.37 each. Old Price \$38.90 each.
Size 33x4—One going at Special Price of \$31.02. Old Price \$40.80.
Size 34x4—One going at special price of \$31.72. Old price \$41.70.

LEE CORDS

Size 32x3 1/2—Two going at special price of \$36.10 each. Old price \$46 each.
Size 32x4—One going at special price of \$46.73. Old price \$58.80.
Size 35x5—One going at special price of \$67.77. Old price \$86.25.

Above prices include the war tax. Remember, the sale is on now and continues for the balance of November. Out of town orders given prompt attention.

AGENTS FOR
HUDSON MAXWELL
CHALMERS AND ESSEX CARS

COLLINS AUTO COMPANY

ACCESSORIES AND REPAIRING
PHONE 317
511 H STREET, GRANTS PASS, RE.

Just a Warning to Shop Early

ELECTRICAL XMAS PRESENTS will be sold out long before you're shopping days are over. The jobbers have started cancelling orders until after the holidays.

XMAS TREE LIGHTS have just arrived, select your gifts early or you will find them sold out.

Our special, just think, then come in and look.

ELECTRIC WASHING MACHINES, large swinging wringer, operates in either direction, instant wringer release, heavy duty motor, large ball bearing castors.

ONLY 3 MACHINES LEFT FOR \$100 EACH

Every housewife should have one—Make it a Xmas Present

WE ALSO HAVE ELECTRIC WASHERS FOR \$100 AND \$200

Grants Pass Electric Co.

HARRY S. CLAPP, Electrician
215 North Sixth Street

Phone 350-R
Next Door to Water Office

Ardencraig Farm For Sale

Complete With Stock and Equipment

at \$50,000.00

For sale only by owner or authorized agents

AUTO TOPS

Replace the shabby top with a light, easy-to-handle weather-proof one now.
Smart looking, serviceable tops—perfect fitting and improving the car's looks—a wide choice in materials and colors.

OUR PRICES LOWEST
G. B. BERRY



JOB PRINTING NEATLY DONE AT THE COURIER OFFICE

EVANSTON, ILL., LIBRARY ON WHEELS

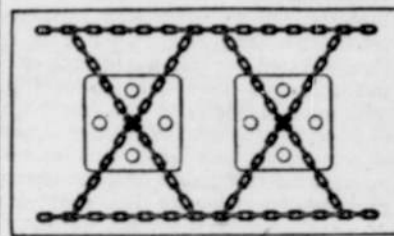


In recent years the automobile has been put to various uses, the latest being the "library on wheels." Books and papers of various kinds are now delivered and collected to homes and places of industry by the Evanston, Ill., public library. The photograph shows a group of children making a selection of the different volumes carried by an automobile.

ANTI-SKID CHAIN INVENTED

Flat Plates With Lugs or Projections Serve to Prevent Slipping of Motor Vehicle.

In illustrating and describing an anti-skid device, the invention of E. Benjestorf, Fernwood, Saskatchewan, Canada, the Scientific American says: In connection with tire chains for the wheels of motor vehicles the inventor provides relatively flat plates



Anti-Skid Tread Plate for Tires.

with lugs or projections which serve to prevent skidding of the vehicle. Owing to the fact that short lengths of chain pass between the lugs the possibility of clogging of the lugs with mud is removed.

TO KEEP WINDSHIELD CLEAR

New York Chauffeur Utilizes Piece of Chamois Skin and Clean Rag or Paper.

Louis George, who has for twelve years been a chauffeur in New York, writes that for the last two years he has been keeping his windshield clear on rainy days in a very simple manner. When the windshield is first wet he takes a piece of chamois skin, a clean rag or, if he has nothing else handy, a piece of newspaper, and rubs the glass with it, pressing quite hard, and he says the glass stays clear so long as the rain lasts.

AUTOMOBILE NEWS

Keep watch on the spokes of the wheels, especially if the car is an old one. If the spokes can be shaken, tighten the bolts on the flanges of the hub.

In cases of chronically squeaky springs, try jacking up the car so that the weight is removed from the springs and then soaking these latter with kerosene.

Five gallons of kerosene containing one pound of commercial sulphuric ether will serve almost as well as gasoline as fuel for the modern automobile engine.

Motortrucks in New York state, with a capacity of one ton or more, must hereafter be equipped with mirrors so that the driver may have a view of the road behind him.

The finish of the car, the lustrous enamel and varnish, need tender handling in the early months of their service, or their beauty may be permanently destroyed.

Washing soda, kerosene and plain soap and water should be the cleaning agents used by the car owners for cleaning parts, tools, etc., about the garage.

Ammonia generates a heavy vapor that tends to seek the floor. In case of a gasoline fire this vapor settles on the flames, keeping off the air and smothering the fire.

In Louisville, Ky., no person under sixteen years of age is allowed to operate a motorcar, unless accompanied by the owner or a person more than twenty-one years of age.

In the thermo-siphon cooling system it is important to keep the radiator full or nearly so. In order that there may be adequate resistance to keep the water forcing its way forward.

A slightly tapering bolt with a number of steel washers under the head so that by removing one or more the bolt may be tightened in its bearings makes an admirable steering gear connection.

SAYS CAR RUNS BEST AT NIGHT

Authority on Engineering Explains Effect of Cool Atmosphere on Motor.

COMBUSTION MORE PERFECT

Evening Air Estimated to Make Difference of About 5 Per Cent in Power of Engine—Produces More Powerful Impulse.

Speaking in a general sense, a motor ought to run better at night than in the daytime. Whether it does so or not has been a matter of argument between motorists ever since motorists existed, and one readily remembers columns of discussion that lasted for years in almost all the early automobile magazines.

Really, the thing is very simple, says that engineering authority, A. Ludlow Clayton, in Motor Life. One is liable to forget that two things are burned in a gasoline motor—gasoline and air. Neither can burn without the other. Also to get the best and most powerful combustion the proportions of gasoline to air cannot vary very much. To one cylinder full of air just so much gasoline and no more can be added.

Cylinder Full of Air.

To one cylinder full of air! What is a cylinder full? The answer is that it all depends upon what you fill it from. Everybody knows that when driving in very high altitudes the rarefied air causes a noticeable loss of power; anyone who has driven at 5,000 feet elevation cannot fail to have observed this.

Now, the real reason for the loss of power is that owing to the rarefying effect of the altitude, the piston can only suck in a smaller amount of air which will only carry with it a smaller amount of gasoline, and so will only produce a more feeble explosion. Of course, the volume of air taken in on the suction stroke is just the same whatever the altitude, but its weight is less in proportion as the altitude increases and the ratio for best combustion is between the weight of the fuel and the weight of the air necessary to insure reasonably complete combustion.

Heat Rarefies Air.

Other things have the same effect as altitude. For instance, heat rarefies air by expanding it so that on a hot day the air charge which an engine can breathe in is smaller in weight than it would be on a cold day. In testing airplane engines it is an invariable practice to make an allowance for the temperature of the atmosphere because the difference in power is quite appreciable. With a 300 horsepower engine a variation of 15 horsepower or more can easily occur by reason of nothing else but change in the air temperature.

Here is one of the principal reasons why an automobile motor does run better at night. Night air is almost always cooler than day air, so at night the engine can get a heavier charge and so produce a more powerful impulse at each explosion.

WINDSHIELD LIABLE TO LEAK

Where Water Seeps Through Between Two Panes Trouble May Be Obviated by Lapping Them.

With the slanting type of windshield water is liable to leak through the slight opening between the two panes of glass when a heavy storm is encountered. This trouble may be obviated by making one of the panes overlap the other, which, of course, calls for the fitting of a new upper or lower half.

Fender Noise.

When vibration has caused a more or less extensive crack in a fender there results a sharp, cracking noise that is very annoying and often is difficult to locate.

AUTOMOBILE HINTS

Too much emphasis cannot be placed on lubrication.

Two-thirds of the doctors in the United States own motorcars.

Do not allow the engine to race or to run when the car is standing.

The horn for a motorcar was offered as the first free accessory 15 years ago.

When it is absolutely necessary to run on a flat tire, keep the tire in soft dirt, if possible.

Running the engine while the car is standing causes a daily waste of 67,000 gallons of gasoline.

About the only satisfactory material for packing a gasoline connection is hemp string and soap.

One of the common troubles encountered in the brake assembly is a tendency to clattering.

Rear wheels are particularly liable to looseness, and this condition induces rapid tire destruction.

The timely repair of even the most insignificant tread cut prevents sand blisters, mud boils and blowouts.

The addition of a little pure flake graphite to the lubricating oil is a help to motors that have seen some wear.

SIR FREDERIC G. KENYON



Sir Frederic G. Kenyon, gentleman usher of the Purple Rod, Order of the British Empire and president of the British Academy, is considered by many the most accomplished scholar in the world.



Warming relief for rheumatic aches.

HE'S just used Sloan's Liniment and the quick comfort had brought a smile of pleasure to his face. Good for aches resulting from weather exposure, sprains, strains, lame back, overworked muscles. Penetrates without rubbing. All druggists have it.

Sloan's Liniment (Pain's enemy)



EVERY BITE TAKEN

from a slice of our bread creates a desire for another. There never was such delicious bread. Try a loaf and note how the youngsters and yourself too will soon finish it. You cannot possibly bake better bread, nor as big a loaf for the same cost as you can buy it for here.

Ask your Grocer for Bread baked by the

GRANTS PASS BAKERY
308 G Street