# HOME AND FARM MAGAZINE SECTION

# Automobiles and Good Roads

A Department Designed to Help Farmers With Progressive Road Ideas.

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Here is an interesting article discussing the repair and @ maintenance of earth roads. It is particular of interest just now while D. Ward King, inventor of the King Road Drag, is vis- @ iting the Northwest.

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F YOU look at the ordinary country road afte: a shower, you will see

small puddles along the wneel ruts and sometimes larger pools. This water stays on the road surface because it cannot drain away into the side of earth will lice past the smooth face of ditches. If you look closely you will see said ditches which have grown up with bushes and weeds in many cases, and which are so far from the traveled part of the road that the rain water does not drain into them. That the center where the horses travel. The road then has a ten-inch crown.

The rain that falls on a road properly crowned will run quickly to the side and not soak into the surface or form A good, strong pair of horses with pools. The side diches for surface a well-built drag can drag three or pools. The side ditches for surface of way, and should be open at every the best way to maintain good roads. of them into neighboring brooks or each four miles of road should own a streams. If the ditches mer ly collect drag and drag the road when it rains, the water from the roat surface and and he would always find the road in it cannot run away, large pools will be good condition when he goes to market. formed along the roadside, which will gradually soak into the soil beneath the road and make it so soft that the wheels of wagors will cut through the road surface and soon destroy it.

# Surface Water Trouble.

Sometim's water runs from land along the road into the road, and forms, a little stream down the wheel tracks in the middle, where the horses travel. When driveways into farm yards are built across thy said ditches they frequently form channels for water from the farm yard to run into the road. The pipes under driveways become filled with leaves or rubbish and the water can no longer run away. L. the driveways that stop the ditch water were rebuilt so that no pipes were neees sary and the ditch could be left open. much trouble from surface water would be stopped.

To keep a road smooth and crowned been fully charged.

THE KING OF MOTORCYCLES SILENT POWERFUL VIBRATIONLESS

, the best method is to drag it with a r. ad drag. A road lrag is made easily with two halves of a log which has been split. The log should be about six or eight inches in thickness and abort six or eight feet long. The two halves of the log are set three feet apart with They are then fastened together wi braces sct in holes bored through the

log. A pair of horses may be used  $\otimes$  the care of tires prepared by an  $\otimes$ forward so that it slants across the @ ddwn the cost of the farmers' @ read in such way that a small arount @ fres. 

road, thus forming the crow ... The edges of the logs will s ooth out the ruts.

# Best Way to Drag.

The lest way to drag is to begin at part of the roadway where the wagons the side ditch and go up one side of rubber and erough of it should be used travel is called the traveled way. To the road, and then down the other. In when inserting a new tube to allow it prevent water from standing on the the next trip the drag should be started to slide easily and avoid friction, and traveled way, the road should be raised a little nearer the center, and the last the vulcanization of the inner tube in the center and should slope gently trip over the road the drag may work to the casing, which is likely to happen into broad, shallow ditches. It is then close to the center itse'f. Small ridges when the casing is overheated from a said to have a crown. It it is ten feet of earth will be thrown in the horse long run or from standing in the hot should be made on large cuts by culfrom the center of the road to the side tracks and smeared by the round side ditch, the surface at the side ditch, of the log smoothly over the road. lease or from lumps. the surface at the side ditch should be Smearing the earth by the drag is calle ! at least ten inches lower than it is at "puddling," and it tends to make the pressure gauge. It should be used surface of the road smooth and watertight after the sun comes out.

The :oad is always dragged after it has rained, and not when it is dry. low point so that the water can run out In every country some farmer along the first two weeks.

#### Auto Licenso Fee Opposed

A storm of protest has been hurled at City Commissioner Newman, of New

Orleans, who proposes to enforce a recont ordinance making necessary a li cense fee from each person permitted to operate a motor car on the streets of the city. The ordinance also provides that a picture of the driver must. be carried, ready for reference in case it should be demanded by any policeman. There is no objection to the examination to determine the competency of all drivers, but the picture and fee features are being attacked by the motor organizations.

## Bo Careful

Don't start out in the morning until you are satisfied that your battery has

Some Good Hints on Care of Tires Farmer Writes for Advice and General Answer Is Given With Ideas on How to Save Tire Cost.

tracks. Some further valuable hints on @

Driving in ruts grinds the rubber off the side walls where it is necessarily to drag the road, and are hitched to @ expert and in addition to those @ thin, allowing water and grit to work a chain fastened to the front half of o published last week are given be- (into the tabric which will soon cause the log. The road drag should move low. They will be found to ut @ a casing to be beyond repair.

VOID greases, oils and acids, they are solvents of rubber, cause rapid deterioration, make tires susceptible to cuts and similar injuries.

Soapstones or tale is a lubricant of sun, but not so much as to harden the canizing as soon as possible.

The first auto accessory to buy is a often.

#### Tiro Stretching Tendency.

Don't forget a new tire has a ten-

Air costs nothing, use plenty of it. Use nothing but air to inflate tires, gas, especially carbonic, injures tubes. Be on the safe side and have your the rim. tires more than large enough to earry car and all extras. You will receive greater milcage and easier riding qualities in return for the slight cost of over-size tires.

# insufficient Inflation.

Insufficient inflation and continual verloading destroys casings and tubes. Remember that over loaded tires are car adds 15 per cent to the wear on Be sure your front wheels run par

allel to each other

It is possible for wheels out of aligament to completely grind the tread off a good plan to shift your casings, for a casing in the short space of 50 miles, even though the rear tires are almost

it will pay you.

#### Rusty Rime Hard.

Rusty rims are hard on thres. Keep our rims clean.

Rusty rims should be smoothed with mery paper and painted with shellac, AUTO CONTROL Japan varnish or aluminum paint, also AUTO MAGNETO e graphite to make rims operate eas-AUTO TIRES

Treads are cut and prematurely worn gencies.

Automobile Trips!

If in an emergency you must use chains, be sure there is play enough to allow the chains to slide around the

tires so as to equally distribute the strair.

#### Wet Rubber Susceptible.

Although rubber does not cut easily when dry it i very susceptible to cuts when wet.

Don't ignore cuts. By allowing water and grit to enter will eventually develop into sand blisters or mud boils and separate the tread from the carcass. Small cuts may be repaired with Heal-a-Cut, but permanent repairs

A blow-out is frequently caused either by a stone or other sharp object rupturing the fabric of a casing.

# Bar Flat Tires.

Don't ride home on a flat tire. It's expensive. If you have no spare case lency to stretch under air pressure. It and cannot make roadside repairs it is takes from ten to twenty days for a far better to remove the tire and proeasing to attain its full dimensions, ac- eeed on the bare rim. Even if the sim vater should run parallel to the right four miles of road in a day, and it is cording to service. This means that is ruined, you have consolation of care should be given to inflation during knowing a new rim is far cheaper than a new tire.

When you travel on a deflated tire both the casing and the tube are literally chewed between the eground and

The

E.

Apply sensitive brakes slowly. Quick stops grind away treaeds.

When starting, don't try to get to full speed in a few yards. Sudden applications of power won't help to keep down tire expense.

# Adjust Brakes Properly.

See thtat your brakes are properly adjusted practically all of the terrific 25 per cent more expensive to run and bear the strain of stopping and start-5 per cent added to the weight of the ing. When your brake, are improperly adjusted prartically all of the terrifir strain of stopping comese on one wheel. This will ruin the best of casings.

As the strain of the rear wheels is greater than that on the front, it is Always have your wheels trued up worn out they should ive considerable after an accident, no matter how slight, additional mileage on the front wheels. As the right side of a casing is always more worn than the left, due to rubbing up against curbs, etc., it is also wise to change the tires on the right wheels to the left and vice-versa. Always carry some patches (either the cemented with the necessary vulcanizing cement cr the non-cement type for making roadside repairs, also an inner and outer sleeve for emer-

THE AUTOMOBILE That Needs Neither Garage Nor Chaffeur.

The Henderson

The first motorcycle was constructed with a single cylinder. This was a big improvement over the bicycle and very satisfactory for the city messenger service. But it was not until 2-cylinder machines came out that cross-country riding became popular. Only those who have fairly burned up their machines trying to climb a hill or pull through sand know the value of surplus power when touring. As the single was an improvement over the bicycle and the twin an advance over the single, so is the 4-CYLINDER 8 H. P. HENDERSON a big advantage over the twin Write for illustrated catalogue or call for · Free Demonstration.

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Chamber of Commerce Is Against Prohibition

San Francisco Chamber of Commerce vote was as follows

on the issue of statewide prohibition has just been compiled.

voters are to pass on a prohibition jority against prohibition, 1146 .- Oreamendment to the constitution at the gonian, May 23, 1914. next general election, it was desired to

learn the sentiment in regard to such a measure among the representative business men who comprise the mem-SAN FRANCISCO, May 22.-(Spe-cial.)-The result of a referendum of the vote showed an overwhelming vote among the members of the sentiment against prohibition. The

In favor of prohibition constitutional amendment, 41; opposed to prohibition In view of the fact that California constitutional amendment, 1187; ma-

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