

# Honks Heard Down Auto Dealers' Row

There are in the United States 225,000 miles of railroad and 2,151,570 miles of public roads, only about 8 per cent of the latter being improved. For every mile of railroad there are about nine miles of dirt road and one mile of good stone road.

A movement is on foot at Hartford, Conn., to make free such ferries as now ply on the Connecticut River where there are no bridges. As autoists have no other means of reaching shore without an extensive detour the ferries derive quite a revenue.

The Scranton (Pa.) Automobile Association has pledged itself to pay \$9,000 as its share of the expense of building a state road from Scranton to Stroudsburg, over the Pocono Mountains. Regardless of what action the Legislature takes at its next meeting, it is almost an assured fact the road will be built.

Though there will be no Grand Prix, and consequently no club race for voiturettes in France this year, small one-lungers will not be altogether without a speed contest during the coming season. Some time in June L'Auto will put on foot its fifth annual voiturette race. This year the stroke will be unlimited.

When a motorist has become somewhat expert in the running of his car it will be found advantageous to gradually feed until the point is found at which the motor runs well, but will not stand a further reduction. The smaller the proportion of gasoline the more economically the motor will run and the cleaner it will keep.

Nearly all the employees of the German factories are making a determined stand against the motor liability law mass meetings having been called all over the country and resolutions set up. The men fear entire loss of work, as many factories are not yet working shorter hours, but with fewer hands already in keep down expenses.

to several legislatures of the states named before they finish their present sessions.

A frequent cause of leaks in radiators is said to be that the vents in the filling caps become clogged with sediments of dust, with the consequence that steam accumulates in the radiator and the pressure, seeking an outlet, forces an opening at the weakest point. A mixture of red lead, white lead and gold size will be found excellent means of stopping any leaks of this kind.

## LIKENS BATTERY TO HORSE.

Waverley Man Cautions Against "Over-feeding" of Storage.

"Did you ever think," said H. H. Rice, manager of the Waverley Company, "how much the care of a storage battery resembles that of a horse? The same thought and attention that every intelligent man bestows on a horse, should be applied to a battery, and the same degree of intelligence

that is horse a batt pressed & you parallel "The like f regular proper on sh feed b should time y wait u down full ch

"Ho reach can't ney."

"We walter

## No Mud-Boils or L

You know what these mean, and what they cost —unless you have Goodyear Tires.

The Goodyear Detachable Auto Tire is alone free from these troubles. Our (patented) rivet-fabric breaker-strips prevent them.

Those who know Tires know that breaker-strips are strips of canvas laid in between the tread (or wearing surface) and the body (or carcass) of a tire casing. When a tire wears down to the breaker-strips it is time to have it re-treaded. Mud or sand works in through cuts between these breaker-strips and the rubber tread on ordinary tires and separates them. Then you have mud-boils—or the tread breaks loose in strips.

These breaker-strips used in Goodyear Tires are made from what is called "rivet fabric." It is a heavy web—like fabric woven in a checker-board with small squares. The back squares are flat. The front and pressure of curving the tire pushes through from both sides and pulls it tight over the center of the tread so that the tread cannot move. It is a square.

The whole tire is held in this position by the metal bands. The metal bands hold the tire in place.

The safety of the automobile depends upon these two qualities: the ability to hold the tire in place and the ability to grip the road.

part  
of the expense of building a state road from Scranton to Stroudsburg, over the Pocono Mountains. Regardless of what action the Legislature takes at its next meeting, it is almost an assured fact, the road will be built.

Though there will be no Grand Prix, and consequently no club race for voiturettes in France this year, small one-lungers will not be altogether without a speed contest during the coming season. Some time in June L'Auto will put on foot its fifth annual voiturette race. This year the stroke will be unlimited.

When a motorist has become somewhat expert in the running of his car it will be found advantageous to gradually feed until the point is found at which the motor runs well, but will not stand a further reduction. The smaller the proportion of gasoline the more economically the motor will run and the cleaner it will keep.

Nearly all the employes of the German factories are making a dead stand against the motor liability law, mass meetings having been called all over the country and resolutions set up. The men fear entire loss of work, as many factories are not only working shorter hours, but with fewer hands already to keep down expenses.

Again the question of building a scientifically constructed toll road, minimally correct rates to cover the cost of the members of the Minneapolis Automobile Club. The idea was popular last summer and a resolution was at once passed among the members, and now again the subject is up for consideration.

What does it mean to you, for instance, to have to wait for the arrival of your doctor? It means a great deal to us, and we are doing our best to help him do his work.

Some time ago we were asked to help in the organization of a new club, the "Minneapolis Automobile Club," and we are doing our best to help them.

much the care of a storage battery assembles that of a horse? The same thought and attention that every intelligent master bestows on a horse, should be applied to the battery, and the same degree of intelligence

## No Mud-Boils

You know what these mean, and what they—unless you have Goodyear Tires.

The Goodyear Detachable Auto Tire is free from these troubles. Our (patented) fabric breaker-strips prevent them.

Those who know Tires know that breaker strips are strips of canvas laid in between the tread (wearing surface) and the body (or carcass) of the tire casing. When a tire wears down to the breaker strips it is time to have it re-treaded. In sand works in, through cuts between these breaker strips and the rubber tread on ordinary tires separates them. Then you have mud-boils—the tread breaks loose in strips.

The breaker-strips used in Goodyear Tires are made from what we call "rivet-fabric," specially woven—looks like a checker board of  $\frac{1}{4}$ -inch squares. The black squares are the rivets. The heat and pressure of curing forces the fabric through from both sides and unites or together the rubber of the tread with hundred rivets,  $\frac{1}{4}$ -inch apart.

The whole tire is as solid as though no breaker-strips were there. No mud-boils can form.

The fabric is so arranged in keeping with the tread that we have patented this invention. This invention insures greater wear and grip, greater fuel economy. That the vehicle will be more comfortable.

The Goodyear Detachable Auto Tire is the only tire that can be repaired in the field.

The Goodyear Detachable Auto Tire is the only tire that can be repaired in the field.

... from the expense of building a road from Beaufort to Bormes-les-Mimosas. Expenses of what will be the least expensive at the meeting. It is almost an assured fact, the road will be built.

Though there will be no Grand Prix, and consequently no club race for voluteers in France this year, small one-lap races will not be altogether without a speed contest during the coming season. Some time in June L'Auto will put on foot its fifth annual voluteer race. This year the stroke will be unlimited.

When a motorist has become somewhat expert in the running of his car it will be found advantageous to gradually feed until the point is found at which the motor runs well, but will not stand a further reduction. The smaller the proportion of gasoline the more economically the motor will run and the cleaner it will keep.

Nearly all the employes of the German factories are making a dead stand against the motor liability law, mass meetings having been called all over the country and resolutions set up. The men fear entire loss of work, as many factories are not only working shorter hours, but with fewer hands already to keep down expenses.

Again the question of building a scientifically constructed hill with absolutely correct grade is engaging the attention of the members of the Minneapolis Automobile Club. The idea was broached last summer and a subscription list was at once started among club members, and now again the subject is up for consideration.

Sheet steel is now much in vogue for motor bodies. If the panels of sheet steel are properly made they will add much to the strength of the whole, although it may be true that a sheet of steel unsupported has but little stiffness. It is the flanging and the curving that adds the strength, and it is at a cost, nor does the weight increase materially.

Some larger firms, under some circumstances, have their parts made with sheet steel, although a number of years ago, George W. Kamm, of Milwaukee, Wisconsin, invented a system of sheet metal construction which has

much the appearance of a wire-mesh combination that of a horse? The name though and action are very intelligent. The action on a horse, should be applied to a battery, and the same degree of intelligence

## No Mud-Boils

You know what these mean, and what they—unless you have Goodyear Tires.

The Goodyear Detachable Auto Tire is free from these troubles. Our (patented) fabric breaker-strips prevent them.

Those who know Tires know that breaker-strips are strips of canvas laid in between the tread (the wearing surface) and the body (or carcass) of the tire casing. When a tire wears down to the breaker-strips it is time to have it re-treaded. Sand works in, through cuts, between these breaker-strips and the rubber tread on ordinary tires, separates them. Then you have mud-boils—the tread breaks loose in strips.

The breaker-strips used in Goodyear Tires are made from what we call "rivet-fabric," specially woven—looks like a checker board of  $\frac{1}{4}$ -inch squares. The black squares are the rivets. The heat and pressure of curing forces the rivets through from both sides and unites or together the rubber of the tread with hundred of rubber rivets,  $\frac{1}{4}$ -inch apart.

The whole tire is as solid as though no breaker-strips were there. No mud-boils can form, as the tread cannot be loosened.

This fabric is so important in keeping the tire troubles that we have patented this construction. This one exclusive feature means that tires will always look well. That they will get dugged or lumpy. That the vulcanization to keep them looking and wearing well, will be vastly reduced.

Other features of our tires are the use of a new formula which gives them a longer life, and the use of a special vulcanizing process which gives them a better grip.

The Goodyear Tire & Rubber Company

70-3-11

through them with the old French road, and  
the new road has advantages in  
driving over them, except that there are  
no difficulties of any kind. There are no  
ruts, and the road is very smooth.  
There are no stones or rocks on the surface.

When a man gets his automobile  
out of the mud, it is up to him to  
have something to get him back home.  
The mud is hard at first, and then soft,  
and will not stand in straight lines.  
The mud is good for a while, but after  
some time it will stand in straight lines  
and the mud is still soft.

Safety and the importance of the German  
factory are making a dead issue against  
the motor liability law which has been  
being called all over the country and  
resolutions set up. The men fear cutbacks  
of work, as many factories are not only  
working shorter hours but with fewer hands  
already to keep down expenses.

Again the question of building a scientifically  
constructed hill with absolutely correct  
grade is engaging the attention of the mem-  
bers of the Minneapolis Automobile Club.  
The idea was broached last summer and a  
subscription list was at once started among  
club members, and now again the subject is  
up for consideration.

Sheet steel is now much in vogue for  
motor bodies. If the panels of sheet steel  
are properly made they will add much to  
the strength of the whole, although it may  
be true that a sheet of steel, unsupported,  
has but little stiffness. It is the flanging  
and the curvature that adds the strength  
and it is at almost no cost, nor does the  
weight increase materially.

Longer wheelbase, larger tires, better and  
more comfortable seats, more cars fitted  
with foot rests to allow a change of posi-  
tion, longer and more comfortable riding  
handle bars, a lower center of gravity, bet-  
ter mudguards, a more efficient exhaust sys-  
tem and stronger frames. These changes  
sum up the improvements in the motorcycle  
this year.

The present  
influence of the  
Automobile Club  
is to be seen in  
the fact that  
they are  
now in  
the process  
of getting  
the  
automobile  
law changed  
so that  
it can be  
used and enforced more

# No Mud-Boil

You know what those mud-boils are, and when  
you have had one you know what they are.

The Goodyear Breakable Auto Tire  
breaks mud-boils easily. Our exclusive  
feature here is the way we prevent them.

The Goodyear Tire know that breakers  
are strips of rubber laid in between the  
wearings of the tire and the body of carcase  
tire carrier. After a few years down to the  
strips it is time to have it re-treaded,  
and working through carcase, the  
strips and the rubber tread on ordinary  
separates them. Then you have mud-boil  
the tread breaks loose in strips.

The breaker strips used in Goodyear Tires  
made from what we call "rivet fabric,"  
specially woven—looks like a checker board  
 $\frac{1}{4}$ -inch squares. The black squares are  
the heat and pressure of curing forces them  
through from both sides and unites or  
together the rubber of the tread with hundred  
rubber rivets,  $\frac{1}{4}$ -inch apart.

The whole tire is as solid as though no  
strips were there. No mud-boils can form  
tread cannot be loosened.

This fabric is so important in keeping  
tire troubles that we have patented this con-  
dition. This one exclusive feature means that  
tires will always look well. That they will  
not get ragged or lumpy. That the vul-  
canizing expense to keep them looking and wear-  
ing new, will be vastly reduced.

Other points—some of them even more im-  
portant—are mentioned briefly in the columns to the  
right. If you are interested in the details, call at your  
nearest office or ask for our helpful book, "How to  
Buy an Auto Tire." It's Free for the asking.

**The Goodyear Tire & Rubber Company**  
Local Agency—Quarantine Tire Co.  
208-210 South Michigan Avenue  
Chicago, Illinois

# No. 11. R.

The author has written a book on the  
subject which will be published.  
He has also written a paper on the  
same subject which will be published  
in the Journal of the Royal Society of  
Medicine. The author has also  
written a paper on the same subject  
which will be published in the Journal of  
the Royal Society of Medicine. The  
author has also written a paper on the  
same subject which will be published  
in the Journal of the Royal Society of  
Medicine.

The whole time is as solid as the  
air is well there. No hard-boiled  
tread cannot be beaten.

This fabric is so important in keeping fire troubles that we have patented this exception. This one exclusive feature means that pictures will always look well. That they will not get ragged or lumpy. That the usual expense to keep them looking and wear new, will be vastly reduced.

Other points—some of them even more important—are mentioned briefly in the columns to the right. If you are interested in the details, call at your convenience or ask for our helpful book, "How to Buy an Auto Tire." It's Free for the asking.

**The Goodyear Tire & Rubber Co.**

**Local Agency - Guarantee Tire & Bicycle  
206-210 South Illinois St.**