IN THE WORLD OF EASY TRAVEL

There will be no more motor shows in Canada till after the war.

Plans are being made in England to build after the war a single-cylinder, 20-horsepower.

Los Angeles county, in California, has built a 20-mile road from Los Angeles to the harbor for the sole use of motor trucks. The same territory is being served by electric steam

In applying wire to terminals, the correct way to perform the operation rection that the hands of a clock | ter jackets and radiator and out dency is tightening the nut will be to petcock, couple the connection, fill the twist the wire, tighter even than it tank with clean water and note the If the wire is twisted the other improvement, way, the nut tends to untwist it, making its hold uncertain.

hotel men, will open the largest and otherwise. That young man made quality. most complete garage in the world. the journey, and the experience was This will be located at Second avenue, rather pleasant than otherwise for the 47th and 48th streets, and will be 200 driver of the car, who had the real by 350 feet in size. Garages in other enjoyment of a companion who, did cities will be built, and hotel men will not bicker nor complain, ,who spoke be interested. In each of these the only when he was spoken to, and who a commodious steel cage 20 by 12 stop and at all times ready to start. feet, and even larger. The space will A guest on motor car trips is a guest be thief-proof, and equipped with ev-; only when agreeable, and is a real the ery conceivable improvement, includ- pest and joy-killer when otherwise. ing owners' and chauffeurs' steel, thief proof lockers, stand pipes for washing, facilities for polishing within the private cage, work bench, flushing devices, smothering devices for representatives' farms in Illinois who fire, and telescopic doors to each cage, reported in a recent survey conduct-The cars will proceed on double ed by the United States Department the Rocky Mountains. ramps for entrance and exist on their of Agriculture, 54 per cent. stated own power. It will be possible to that their outfits were not disabled a serve 36 cars with gasoline at one single day when needed during the entime. The building will be five sto- tire season last year. Of the remain- thod for blasting away the earth your tires the force of which is inreys high and will accommodate ing 46 per cent, the average number nearly 90 cars, with each taking 240 of days their tractors were out of square feet of space. There will be commission when needed was five.

If your engine is running hot it time. may be that your cooling water is The reports of tractor owners indinot circulating properly on account cate that with a careful and profiof the accumulation of scale and cient operator a gas tractor is a very rust in the water jackets. Here is dependable source of power. Occathe thing to do: Empty the radiator, sional slight delays probably will be Fill it with saturated solution of plain encountered, but serious ones will be washing soda and water. Run the exceptional, whereas with a careless soap and lubricants. engine with retarded spark for a short or incompetent operator expensive time, until the soda solution is hot. | delays are apt to be frequent, Let stand for two or three hours, then drain the radiator again. Un- A California ranch owner is couple the lower water connection inventor, of a portable iron gate and connect the line to the water which can be placed across main irpump, with a hose. Turn the hose rigation ditches to divert the flow on fully and start your engine. The of the water into laterals

THE "WHIPPETS" WHICH HELPED WIN THE BIG NEW BATTLE



new "baby" tanks did great work recently. One of them chased a German general. They can run and dodge faster than a man.

move. This is because the screw through the petcock and the loose thread is right-handed and the ten-lower connection. Then close the

Last year a man travelling through the country alone and on a lengthy The total automobile and truck reg- trip was approached by a young man istration in the United States as of who asked permission to travel in the a profitable by-product. January 1st, 1918, according to official second seat of the runabout. He sons in the country. A year ago cared to stop, eat only when the driv-shades. there was one vehicle for every 29 er cared to eat, and make no demands persons, and two years ago there was to stop for any other but necessary one vehicle for every 42 persons. purposes. He was told that he must It has been announced in New be ready to go at a second's notice York that the Interstate Garage Com- when any stop was made, and was

Dependability of Tractors.

reception rooms for owners. club- This average, however, did not inrooms for chauffeurs and dog kennels, clude one man who stated that his machine was not usable about half the

NEWEST NOTES

wool washing plants is recovered by the English city of Birmingham at

that is believed to contain 10,000,-

lish doctor has invented has no heat at the top, a moderate quantity in middle and the maximum to the tire upon meeting such an obamount at the foot.

Of more than 600 tractor owners on power possible of hydro-electric de- physics: The energy of a moving be used to clean off any grease of

with dynamite, making a hole which creased nine timessoft concrete quickly fills.

its exhaust pipe.

sects cannot be utilized in fertlizers, either.

Rubber tree tapping by a series of one as well. tomary vertical incision system.

has been invented consisting chiefly was first received. of a rod to be thrust into the ground! Thus you will note that the collid-

been invented a varnished canvas an hour, pipe which has the advantage of be- A drop of 163 feet is equal to a

Instruments installed by scient sts when a huge reservoir was built in New South Wales have recorded earthquake movements, dislocations and earth tides due to the weight of 30,000,000,000 cubic feet of ought to drain the oil from the crank

the production of nitrogen fertiliz- been diluted with gasoline which has ers from relatively inexpensive and got past the piston and into the oil. by a Brown university professor. a Frenchman has placed several in- the hot season to run the carburetor candescent lamps on a revolving with as thin a mixture as possible." circle, each in turn being lluminat- When draining the water system of ed briefly and their combined rays the car it is well to make certain that being sellected by a reflector.

WHAT TO DO. Hot Engine Due to Crust Formed In-

If your engine is running hot it

may be that your cooling water is not some receptacle, a large can or pail. circulating properly on account of an so that it can be used again. The accumulation of scale and rust in the reason is that in all water there is a

soda and water. Run the engine posed already to have been made, with retarded spark for a short time. whereas with fresh water a new deuntil the soda solution is hot. Let posit will be precipitated. By using stand for two or three hours, then the same water over and over again drain the radiator again. Uncouple this furring up of the water spaces the lower water connection and con-nect the line to the water pump with may be minimized. a hose. Turn the hose on fully and start your engine. The water will be forced through the water jackets and Spark plugs are a source of much radiator and out through the petcock obscure ignition trouble, that car and the loose lower connection. Then owners have great difficulty in locatclose the percock, couple the connecting. In many cases the insulating tion, fill the tank with clean water, material in the construction of the

SPEEDING DOES DAMAGE TO TIRES Going Thirty-five Miles An Hour is the Same as Falling

Off a Housetop.

seemed to go along all right and you Statistics obtained by the B.

Perhaps a day or two later you are that trucks engaged in the haulage of forced to change a tire. Upon show- grain, produce, truck, and live stock 000 tons of high grade phosphates ing it to the repair man, who tells you in the rural districts numbered 79,789 pany, composed of leading New York informed that he would be left behind and many million tons of inferior that the carcass of the tire is in need during 1917. Next rank manufacturof repair because of a bruise, com- ers with 65,928, and then retailers An Arizona scientist hopes to fix monly called a "stone bruise," you re- with 64,486. According to the figthe time of the cliff dwellers by mark, "Rather strange, I have no ures, there are 238 commercial vehicomparing the age rings of tree recollection of hitting a stone; I have cle manufacturers in the United trunks still standing in their homes travelled only on improved State States; 90,000 trucks were made durwith the rings on the oldest trees roads and city streets." But you fail ing 1917, and it is estimated that the to recall the severe shock your car 1918 production will go over the 200,-An electrically heated mattress and its occupants experienced when 000 mark, for pneumonia patients that an Eng- you hit the bump or hole in the road. One rarely stops to consider the force of such a stroke when delivered

> light. The first three are solvent of struction or road irregularity. Government experts have esti- Back to school days for a moment, rubber, and will rot the tire if allowmated that of the 26,000,000 horse- if you will, and recall that old law of ed to remain on them. Gasoline may velopment in the United States, 19 .- body varies as, the square of its vel- oil, as it evaporates immediately, but 000,000 horse-power lies west of ocity. Apply this to you car and you tires should not stand in contact with will note that by doubling the speed any of the above. To give concrete columns for the energy is increased four times. buildings wide foundations a Ger-|Triple your speed and the violence man engineer has invented a me- of the road shocks deliver a blow to

While an increase of speed greatly Baking and several other kinds of multiplies the force of the road cooking can be done with a stove shocks, the direction of the blow is that a California inventor has de- also changed. In driving slowly signed to be placed beneath the hood over a slight obstruction or depresof an automobile and connected with sion the force of the blow is downward, due to the dead weight of the Because locusts are rich in nitro- car, and the shock is received in a vergen and phospehoric acid the gov- tical direction, which is easily abernment of Uruguay has appointed sorbed by the cushion of air and the a commission to ascertain if the in- springs on the car without injury to

By speeding up the car the force of Evaporation from a new gasoline the blow from a road obstruction or can is prevented by a spring con-, irregularity has changed its direction trolled spout cover, while a tube from vertical, straight up and down, extends from the spout to the bot- to a horizontal force, as the weight tom of the can to admit air and in- of the car not only has a downward sure a steady stream being poured. thrust on the obstacle but a forward

small borers set in a circle, the in- The cushioning effect of springs is vention of an English expert in the [not used, hence they do not absorb Belgian Congo, has proven a more this horizontal blow, which is aimed productive method than the cus- directly at the axle; therefore it is a dead blow on the tire which overtaxes Scientists have advanced the its cushioning effect and stretches its theory that where the coal of Ai- inner carcass constructions to such aska is permanently frozen to a degree inward that the inner ply of depths of hundreds of feet it was cords or fabrics is strained or broken concealed in some previous age and later develops into a blowout. The the following vegetation prevented length of time for a blowout to develop depends on the force of the For detecting leaks in under- blow, which in turn is governed by ground water pipes an instrument the speed of the car when the blow

to pick up the sound and a tele- ing force of an automobile is govphone receiver with which it can be erned absolutely by the speed. If you should drive your automobile off A parliamentary committee that the roof of your house, which we will nvestigated found that the produc- say is about forty feet above the tion of all of London's electric pow- ground, what would be the effect? er in a few central stations would Horrible, you say. Quite right. The save 6,000,000 tons of coal a year force of the impact when the car hit and greatly lessen the smoke evil. the ground would be equal to its For ventilating in places where striking or collision force of being blasting is being done there has driven at a speed of thirty-five miles

ing practically proof against dam- force delivered to a car when travelage from blasts as it collapses if ling at a rate of seventy mile san hour. By doubling the speed you increase the force of the blow fourfold.

Drain Oil From Crank Case.

"The owner of a good motor car

case at least every four weeks," says The discovery of a partly electri- an automobile sales manager. It will cal and partly chemical process for frequently be found that the oil has easily obtained materials is claimed This destroys its lubrication qualities. During the summer season it is ad-To obtain a powerful searchlight visable to use a somewhat heavier oil with a comparatively weak current than in the winter. It is also well in no water remains in the pipes and packets, by rocking the front of the car. This will throw the water out of the bends and pockets. The majority of thermosyphon cooling systems drain off easily enough, but in the pump system it is necessary to use care. It is a good plan in draining off the water to let it run into water jackets. Here is the thing to certain proportion of foreign matter Empty the radiator. Fill it with a jackets and radiator. In the water saturated solution of plain washing already used this deposit may be sun-

> Spark Plug Troubles. plug is porous, permitting electric

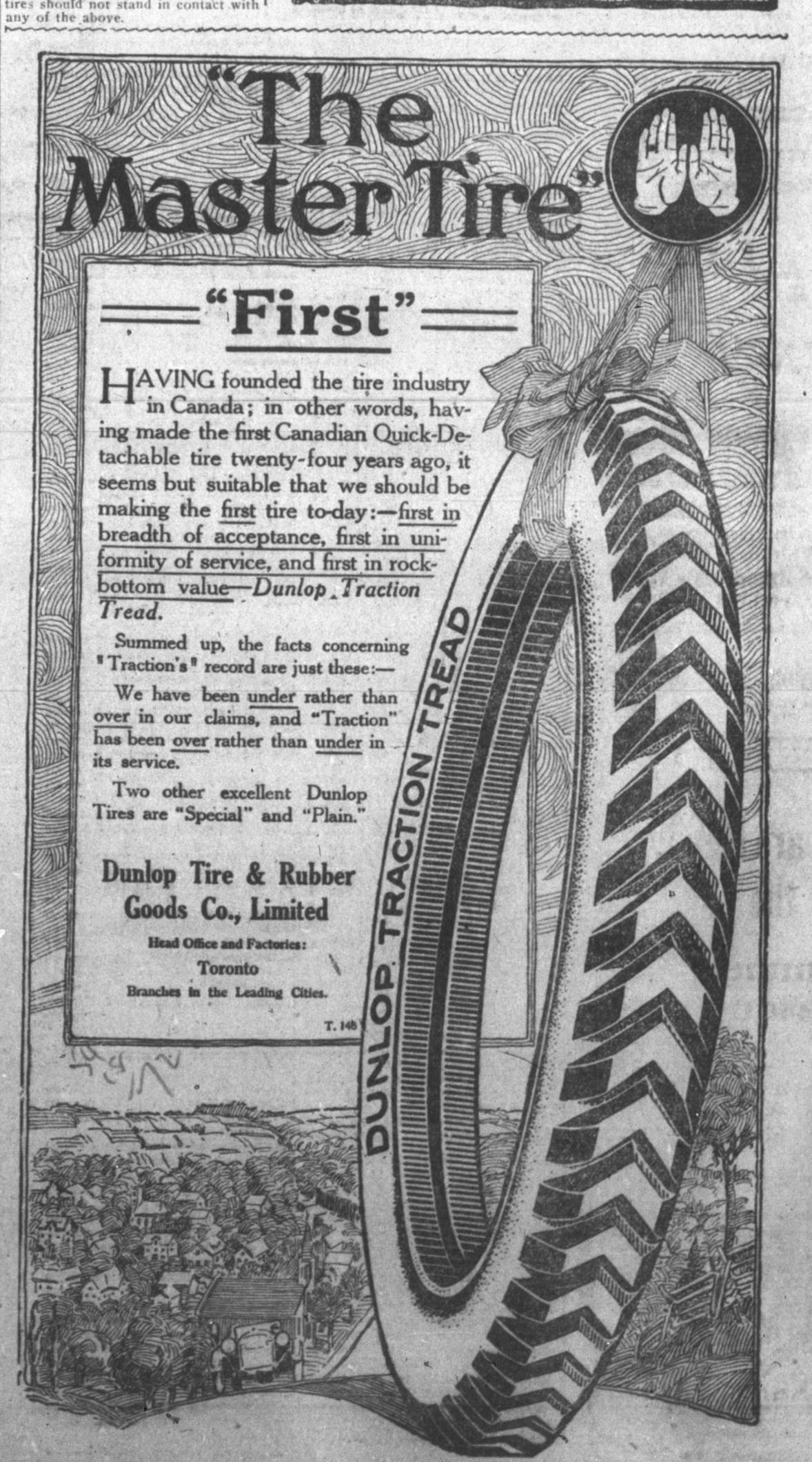
Goodrich Rubber Company indicate

Arch Enemies of Tires. Gasoline, grease, kerosene, heat and

til finally the insulation changes its properties entirely. In such cases the car owner having cleaned his plugs and finding the trouble still existent, assigns its source to some You have been bounced off your other part of the system. In these its sewage plant and converted into seat, of course, and heard the cries of circumstances the car owner is recompassengers in the rear seat to "cut her | mended to consult the service station Sleeping hammocks for small down a little," just because you struck of a spark plug manufacturer and get children have been invented which a hole or rocky, uneven spot in the a plug equipment which is specificalfigures furnished from all of the 48 was given that permission only on states, is 4,941,276. There is now one motor vehicle for every 20 persone to, stop only when the driver one motor vehicle for every 20 persone to, stop only when the driver one motor vehicle for every 20 persone to, stop only when the driver one motor vehicle for every 20 persone to, stop only when the driver of the damage was done. You slowed up for a short space and the old boat of the damage was done. Trucks Haul Big Farm Produce.

leakage through the porcelain and also allowing absorption of the carbon formed with each explosion, un-

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George Boyd

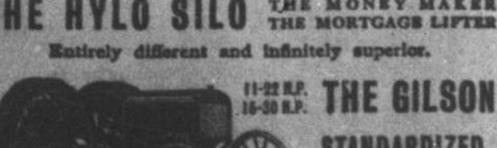
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