## nstipated? Tired Out? No Energy? 'Fruit-a-tives" gives perfect health



treal, Que.-"I was always constid, bilious and weary until one day et a traveller who recommended t-a-tives'. I procured some. You d not know me for the same person. in perfect health, always energetic. happy to congratulate you on your cine. I recommend it on every -Mr. Emery Lemay.

it-a-tives" overcome constination in re's surest way. The intensified s of ripe, fresh fruit, combined with h-building tonics, gently and surely re natural intestinal action. Be well "Fruit-a-tives". Try a box-25c 50c at all druggists.

pedestrian, arrested for firing a ver in a New York street was itted. It appears that he was trying to shoot a motor honker. awa Journal.



## vitations

rrectness reprinted invitawedding. The actory work at

railable

Chronicle

ilndried Seed Corn is season

er bus. . weet, per bus... 2.25

# le Turnip Seed

m, Purple Top Swede, ede Turnips.

bs. .....**\$ .25** bag ..... 1.10 bag ..... 1.10

Cook, buy

## S FLOUR

of Salt: rel ...**\$2.50** Salt .. **.90** sed Salt .60

# pple Week

hile they are plentiful rices by the case.

gs & Son ir and Feed Durham, Ont. WHAT WILL 1938 MOTOR CARS BE LIKE?

Thursday, May 31, 1928

(Continued from Page 1.) how? Let us see if we can discover where the automotive future lies, by tracing the path that it has followed so far.

removed from the scene today, sible to the point at which it was steel frame with wooden panels. there are few of us who would generated. The problem that has tal adjunct to everyday life!

ways being fixed-not in a modern, 1902 Pope or Stanley. well-equipped service station, at the owner's convenience, but usual- safer because it will eliminate a ly quite involuntarily on the road great many of the accidents caused by the owner himself, accompanied by skidding. The rear axle of the always by a large group of volun- future automobile will have as its teer advice-givers.

early century had automobiles at were called quite accurately, tion of universal joints, torque bile than does this. "horseless carriages"-mere buggies tubes, propeller shafts, differentwhich had no shafts but had a pe- ials, etc., that we know now. As culiar collection of machinery for cheapness, that it a corollary of somewhere below. Even after what has gone before, and astute they outgrew this stage, they were manufacturers may be counted on still peculiar contraptions. Father to make the most of it. donned goggles, and a peculiar garment called a duster, and climbed interesting effects. It will contrifore the explosion takes place) are least the chronicle the passing of the gearthrough a door at the back. (They lower the center of gravity of a couldn't have doors at the sides, for car, the greater its road ability, no one had learned how to make and the less inclined it is to overbodies stiff enough to keep the turn. The rear end is the one road.) The engine was under the present obstacle to a lower center floor boards, which Father tore up alterations that have already been for frequent investigations. To made in it. Good roads, free from start the works someone would bumps and craters, make possible insert a long cast-iron crank into a lower center of gravity than the vitals of the machinery at the previously thought possible, but side, and turn vigorously for a spell. If the engine felt like running that day, there would pre- themselves. Appearance will change sently be a slight cough somewhere in the caverns of machinery, which would, after patient coaxing, turn to more daring lengths than are into a series of slow-spaced but devastating explosions.

But the battle was not over. It was next necessary to get the car into gear, and the wheels moving. This was no small trick. Provided however, that the clutch could be thrown in without causing some important part to tinkle out on the roadway. Father could then be seen moving off to the accompanishakings, and down-right concussions, through the thick dust kick- tion. ed up by the thin-tired wheels on the untreated dirt roads. A busy concrete mixer still gives a few of the same vibrations but by no means the same full symphony. Small wonder that the nation's business was still carried out with the aid of the horse, that people were called to the windows to look when an "automobile" went by, and rich and adventurous souls, said: one group, is the only safe material for body construction, the only material that will protect the occuthat most people, except for a few nasty, smelly things. Give me the good old horse and carriage every

That kind of remark is only twenty years old. Since those days the progress of automobile manufacturers has been nothing short of amazing; every year has seen progress sufficiently rapid to make any automobile seem hopelessly out of date in five years. And we may be sure that the marvels that are in store in the next few years will certainly, by 1938, make even the fine productions of today seem absurdly crude and old-fashioned.

More Wonders on the Way Since the establishment of the basic principle of the automobile on a sound basis, most experts list four great improvements. They

1. The self-starter 2. The closed body 3. The balloon tire

4. Four-wheel brakes The self-starter first appeared about 1912, and was adopted within the next few years by the entire industry. The closed body was an early devlopment, but universal preference for it did not make itself felt until about 1920. As for the balloon tire, it is as recent as 1924, and the four-wheel brake system, which only this year be-came universal, dates no earlier than 1924, although Europe knew

Well then, you ask, what next? Is the revolutionary stage over, and shall we see nothing but refinements like air washers, oil filters and gas cleaners, or rubber insulation of engines from frames, and new and striking color combina-

To these questions, I have found, among men whose busineess it is to know, is an emphatic "No!" Another revolution is on the way, and it will be headed by one of the most spectacular developments yet re-

Automobiles, some time in the future, will change to front-wheel This change is inevitable. It is

just as sure as the almanac, and there is not a manufacturer today who does not know it, and is not preparing for it. Five reasons combine to make the front-wheel-drive automobile the inevitable one of the future:

It will be safer It will be faster

It will be lighter It will be cheaper It will be lower

The present rear-wheel drive, to compromise. As soon as automobiles took their present form it was If the automobile were suddenly should be applied as close as pos-

The front-wheel drive will be duties only the carrying of weight It really isn't fair to say that the and brakes.

with the elimination of the old rear end, new possibilities will present radically. Front-wheel-drive cars now thought possible, and will present a torpedo-like appearance that will be both striking and hand-

## New Body Lines

with these changes will come still

holds even more.

their structure, is due for alteration. Manufacturers are evenly divided just now on the merits of steel and wood bodies. Steel, says pants of a car in collisions. No, it isn't, another group responds. Most accidents would not be serious, save for the splintering of glass in the windshield, and a flexible or non-shattering glass, such as "Tri-

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Grass Veranda Mats 27 x 54 at......49c. Large Size Bath Towels, at .....25c. Children's 3/4 length Sox, per pair....29c. Ladies' house Dresses Silk Elastic, 1/4" wide 4 yards for ..... 10c. White Curtain Scrim yd. wide, per yd. 17c. Clover Leaf Cups and Saucers ......10c. White Cups, 3 for 19c. White Plates, medium size, each .....10c. Heavy Glass Tumblers, 8 for ......25c. Rubbered tipped lead Pencils, 5 for ....9c. Good Quality Envelopes, 50 for .....19c. 5c. Chocolate bars, 3 for ......10c.

# The Variety Store

R. L. SAUNDERS, Prop.

which we are so well accustomed, meanwhile, they continue, the Willys-Knight engine now fortable riding qualities, but it is engine sounds all over the car. uses. And it is much heavier. The

#### a steel cask or a burlap bag. Engines of the Future

For every five or ten pounds of the brakes mechanically. their own weight, they now devel- The "servo-brake" falls into the scientific administrator. The auto-Similar reasons will make the op a full horse power. Imagine same classification, and is bound to motive industry is a magnificent all, even though the makers of new drive faster. Less distance for something the weight of a heavy have a wide application. It con- example of the application of them were then beginning to think the transmission of power to wheels candy box that can develop the sists of a drum with a surrounding scientific brains to practical endsof them as advanced products of will mean less friction, greater ei- power of a horse—or more, for no band, mounted on the propeller Every year, save those in which the great indoors. the art. It had vehicles that would ficiency, and consequently more ef- horse is capable of exerting a shaft. When the driver depresses the war upset all caiculations, it occasionally move without the aid fective power applied to the theoretical "horse power" contin- the footbrake, he tightens the band has given us a little more for our of a horse, but they bore small resemblance to the sure and silent ed by the elimination or modification of today. At first they have a fi

> to four thousand revolutions per | ized to stop it. minute, and will probably go highin the next few years.

In some way that is still very im- advance in engineering.

Our Expert Tire

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Our modern equipment, shown above, plus our expert,

plex," which the Ford now uses, is weight, will give economical power dynamo delivers to the motors.

### Feather-weight Brakes

Who is right? It is difficult to safety and its corollary, ease of tem of transmission. One of the not suffer the sharpest personal hitherto stuck the engineers in the say, and perhaps both are wrong, control. The public quite rightly most ingenuous is known after its this very day, a patient scientist is inconvenience. As for American industry is how to transmit the Already, in Europe, a new type of takes for granted that all automo- inventor as the "De Lervaud" and puzzling over a fact that will not industry, it would find itself in the power from the engine to a set of body known as the "Weymann" biles are good ones, that they have has been applied experimentally to fit into his calculations; perhaps he grip of a paralysis so staggering wheels that must be turned seems likely to revolutionize con- power, pickup and speed. Ac- a number of European cars. More that its effects can hardly be calcu- through an angle as large as forty- struction here. The Weymann cordingly, progressive manufac- recently a car of De Lervaud's own color, or an ammeter gives a lower lated. And yet a little over thirty five degrees to permit steering, body is flexible: unlike any other, turers are stressing more and more manufacture has carried it. The value than it should. And perhaps years ago the automobile did not without in any way interfering it is made of wooden parts hinged the element of safety. Four-wheel device makes use of a "wobble" or when he finds out he will have exist, and even twenty it was con- with either power or steering. It together and covered with fabric, brakes were one of the first indi- "swash" plate which makes, with sidered more a curiosity than a vi- was a similar problem which four- so that the body actually sways cations of this trend. Recently the propeller shaft, an angle auwheel brake designers met and about, (imperceptibly, of course) Chandler announced one of the tomatically controlled by a spring-I can lay no great claim to an- overcame only a few years ago. For and deadens the sound of moving first applications of an even newer From the wobble-plate, rods extend tiquity, and the automobile is a bit the front-wheel drive, the problem parts. Naturally it has small re- principle-applied for some time to the rear axle, and are connected older than I, but I can remember is more difficult, but it is close to sistance to destruction, but the to heavy trucks and busses, but to it there by ratchets. The inclinthe automobile of the earlier days being solved now. A few actual body of a car is seldom called upon new to passenger cars,—the vacuum ation of the wobble plate depends with a great amusement, just the front-wheel cars do exist, as test to withstand great loads unless it brake. Here is a development upon the torque needed, and the same. The amusement lay largely cars, and it cannot be long now turns turtle, and when it does no which adds materially to the ease amount of inclination governs the in the fact that I had the small before the first commercial model one is going to feel very comfort- of driving. Brawn is no longer stroke of the rods, and thus, in boy's ardor for watching things be- appears. Within five years from able anyway. If you are planning necessary to stop a car. The vac- turn, the amount of turning of the ing fixed. And automobiles, in the the time this happens, rear-wheel- to go over Niagara Falls, it makes uum brake makes use of the vac- rear axte. beginning of this century, were al- drive cars will be as funny as a little difference whether you go in uum in the intake manifold, which it highest when the carburetor throttle is closed. By varying the size of piston used to contract the longer at the whim of eccentric of dipping it up. Put out your What about engines? We shall brake bands, a wide variation in geniuses. Toady we produce matersee great changes there, too. Engines are smaller than they used to obtained. And if the engine stalls, all the power and resources of be, but infinitely more powerful. direct connection will still apply groups of trained men, working being burnt up every year simply

products of today. At first they tion of the conventional combina- engineering brains to the automo- with the drum. This turning force factories in which production ex- June 7. Durham orchestra. Ausactivates a set of levers which perts work their marvels of econ- pices Dornoch Catholic Women's Engines run at higher speed, apply the brakes. The driver need omy and efficiency is just as fas- League. now. The average has risen in the exert only the lighest pressure, and last few years from two thousand the energy of the car itself it util-

### Good-by, the Gear Shift

aboard up two or three steps, bute to safety, of course, since the higher, and will rise spectacularly chronicle the passing of the gearshift lever. The automobile of the High compressions add greatly to future will probably be controlled the efficiency of an automobile with only one lever or pedal. engine, but they have not hither- Several new control systems to to been possible because of knock- make the shifting of gears unnecing in the cylinder. Knocking is essary, are in the laboratory stage the result of a detonation in the now, and as soon as they have been engine, and means that a shattering made sufficiently reliable to justify explosive wave is striking against installation, the country will ring the piston and the cylinder walls. with the tidings of another great

perfectly understood (although A gear shift is necessary on an scientists are busy putting quartz automobile because a characteristic windows into cylinders, and photo- of the gasoline internal-combustion will carry the steam-line principle graphing the flames inside) a sub- engine is a very poor torque, or stance known as lead tetraethyl turning power, when the motor prevents this and immediately runs at low speed. The function of makes possible the redesign of the the gear shift is to permit the moengine head to permit higher com- tor to run at fairly high speed pressions. The Chrysler "red-head" without impelling the gear wheels engine is the first example of an at the same rate. Engineers have engine designed to operate exclu- long been studying the problem of Radical as all these changes may sively on the new gas. It is a making these adjustments without be, they are not the only ones. We great forward step, but it cannot bothering the driver, and they are have predicted that body shapes be operated unless a constant sup- beginning now to have something and designs will change. Along ply of ethyl gas is available. Hud- to show for their pains. Already son and Essex, to name only two many busses no longer carry a ment of squeaks, rattles, groanings, another: the introduction of new others, have compromised and gear shift, since the old transmisideas in body design and construc- produced a much higher compres- sion has been replaced by the "gas sion engine, which will, however, electric drive". The gasoline motor A recent automobile show wit- run well with ordinary fuel. The turns at an almost uniform rate nessed the introduction of some of greatest engine changes will not and drives a dynamo which supthe most beautiful body and color come, however, until ethyl gas is a plies current to motors mounted designs imaginable, but the future universal fuel-a development on the rear axle. The driver varies probably not much more than five the speed of the bus by controlling Not only the finish of bodies, but years away. Engines, weight for the amount of current which the

the best answer as to safety, and acceleration far beyond the It is not likely, however, that Further research is necessary to present. And we should look too this system will ever find much produce it even more cheaply, for a wider and wider application favor for light passenger cars. It cure in the knowledge that this Meanwhile, they continue, the of the sleeve-valve principle, which is efficient, and provides very com-

#### What Next?

under the direction of a great

cinating as the record of things to come, but it must wait for another time. Meanwhile we may rest sebrief catalogue does not include more than a tenth of the changes too heavy and too bulky for smaller which the next few decades will produce. Many new developments At the present time the great demand of the motoring public is for tem of transmission. One of the motoring public is for tem of transmission. One of the will come. Somewhere, perhaps are absolutely unpredictable at the wonders why a solution is a certain founded a new industry, or reorganized an old one. So runs invention, handmaid of modern life.

#### FORESTRY NOTES

When a man who is not used to the woods lights a match and later throws it on the ground, he expects it to go out. But when an experienced woodman is through with his match it is out. He does not leave it to expectation. He

A pail of water costs nothing in Invention, you will see, is no camp fire and help save Canada's diminishing forests. Twelve milfor lack of a few pails of water at the proper time.

> More and more girls are in love with the great outdoors to avoid

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