VALUABLE Motor Car Service Department PROBLEMS SOLVED.



PROTECTION FOR POLISHED METAL.

Bright metal work can be protected by using a mixture of one pound of lard, an ounce of gum camphor and a little lamp black, melted together.

WORTH REMEMBERING. Before washing a car, a mixture of kerosene and lubricating oil should be forced between the body crevices with a squirt gun, or allowed to seep in from the application of a brush.

CONCERNING OVERSIZE TIRES. the regular size tires, but are larger, way into the bearing surfaces. with a greater air capacity, and consequently their use results in increased riding comfort and lower operating cost.

FOR CLEANING SMALL PARTS.

CAREFULLY AND FOLLOW THEM EXACTLY

Best of all Fly Killers 10c per Packet at all Druggists. Grocers and General Stores can filled with kerosene and a stiff

ONE ABUSE OF THE CAR. Running a car constantly at high to which a small quantity of ethy fluid speed sets up a vibration which loosens has been added. It is the result of every bolt and nut, including spring long and patient experimenting in the

that are hard to eliminate. CARE OF UNIVERSAL JOINTS.

thoroughly several times during the year. After this cleaning, inject a small quantity of high quality steam cylinder oil and rotate the joints for several Oversize tires fit the same rim as minutes to permit the oil to work its General Motors engineers to find a new

> ADJUSTMENT OF BRAKES. just free on the drum and shorten the brought him to the conclusion

cross shaft, brake connection, spark and provided for that purpose. See that the emergency does not strike the end of the ratchet or floor boards.

Celluloid curtains can be cleaned and renewed by applying clean vinegar with a soft cloth. When the accelerator pedal is press-

A rear axle should be cleaned every out all old oil first.

MASTER FOUR

24-33

THE unquestionable dependability—the

1 strikingly handsome appearance—and

the decidedly low cost of the New 1924 McLaughlin-Buick "Master Four" Four-

Passenger Coupe make it the logical choice

On account of its ease of control-its lux-

urious finish and appointments, "milady"

will find it the ideal car for shopping, while

its roominess and generous luggage com-

partment add to its desirability as a family

To the recognized McLaughlin-Buick

standards of reliability and performance

have been added four-wheel brakes, a new

and more beautiful body design and many

other improvements. The result is a closed

car of a quality and appearance never before

McLAUGHLIN MOTOR CAR CO., LIMITED

Subsidiary of General Motors of Canada, Limited

BRANCH HOUSE: BATHURST AND RICHMOND STREETS.

obtainable at so moderate a cost.

OSHAWA . . .

HAVE YOU SEEN

for Four

ONTARIO

THE 1924 CARS?

Ample Room

of business and professional men.

car.

50 Miles A Gallon

DAYTON, O., Sept. 27.-A few months ago C. F. Kettering, president of the General Motors Chemical Company, a subsidiary of General Motors, predicted an average of 50 miles to a gallon of gasoline in four years. Only recently Kettering's firm came out with a new fuel which may produce the result he prophesied.

The fuel is called ethyl gas and consists of ordinary commercial gasoline

clips, shackle bolts, radiator, etc. This General Motors Research Laboratories develops a series of squakes and rattles here, during which automobiles were run hundreds of thousands of miles on this and other test fuels. In the tests more than 2,500 sub-The universal joints should be cleaned finally adopted was found to be comstances were tried out, until the one mercially practicable. The fuel is a wine-colored liquid, the color being

caused by the ethyl fluid. fuel was the trouble motorists have experiencing with knocking. Through research into this bugaboo of The brake pedal of a car should never motoring by Thomas Midgely, jr., now be permitted to touch the floor boards, general manager of the chemical com-It is does, first adjust brake so it is pany that is producing ethyl gas, When cleaning small parts of the pull-rods connecting pedal with brakes "knocking" was not caused by faulty chassis such as oil holes on the brake by means of turn buckle or adjustment ignition, or by carbon igniting the gas before the spark could.

Instead, he discovered this phenomenon was due to a high pressure gas wave, traveling at high velocity, strik-Never depend too much on brakes for or top of the piston. Considerable damage could be done by this wave, even to wrecking the engine. A little powdered resin sprinkled on On this hypothesis General Motors

the fan belt will keep it from slipping. engineers sought a remedy and finally came upon ethyl gas as the solution Failure to keep the clips tight is They figured that if the compression of most common cause of spring the engine could be increased greater power and economy could be obtained. But increased compression produced the knock, which they finally have been able to forestall by the use of the ethyl gas as fuel. Addition of only one-tenth of one per cent. by volume of the ethyl fluid to

the gasoline is said to be enough to ed too quickly it will most likely cause produce the desired result. Its use said to eliminate loss of power, waste of gasoline and carbonization. It is a step towards the fulfilment 5,000 miles or less. To do this drain of Kettering's prediction of 50 miles on a gallon of fuel.

No. 23 WHAT'S THE BEST TITLE FOR THIS PICTURE?



SUBMIT YOUR TITLES ON A POST CARD.

Five dollars will be pald by The London Free Press to the person sending in the CLEVEREST title for the scene pictured above. For the next best five titles than 25,000,000 families in the United States that seems a liberal estimate. States that seems a liberal estimate. But in consideration of the present number of automobiles, and of the rate at which the total has been growing, it at which the total has been growing it at which the total has been growing. California there is an automobile for every \$50 persons, a ratio of 100 to 1. Surely there are possibilities in an American invasion of that outside market.

NO. 22—WINNER: "BEARDED AND BEING SHORN."



For the first time in two or three ! weeks the Contest Editor received a ford, 570 William street, London. sufficient number of good titles to allow some to be placed in the "honorable street, London. mention" column. Picture No. 22 did not prove a stumbling block like some of the previous cartoons, and the result "The Gold Digger." Irene Vanderhart, 50 Peter street, Kitchenr. was a real supply of witty titles. Now, Picture No. 23 should come in London. the same class. A book agent is often "The Family Flower and Dough." made the butt of many jokes. Rake up Walter Hodge, 463 Dorinda street, a few or think up some new ones and London. send in your titles. If you look carefully at Picture No. 23 you'll see that Main, Strathroy, Ont. the business man's visitor is a book agent and that he is not an individual Needer." playing a concertina. Here are the winners for Picture

A. Brakeman, 179 Penrose street, Sar-\$1-"The Doughboy." Jack Holmes, 2 Windsor avenue, London. \$1-"Playing a Loan Hand." Ray L. Francis, R. R. No. 1, Kirkton. P. \$1--"The Feminine Touch." Alfrieda Holskamp, 16 Nelson street, Stratford,

\$1-"A Revenue Cutter in Action." William J. Rabb, Box 416, Harriston, The Oil For the Farmer .- A bottle of \$1-"Taking a Leaf Out of a Popular Book." Mrs. F. Landon, 76 Bruce street, doctor. It is not only good for the chil-

W. S. Peace, 158 John street, London. always be a bottle of it in the nouse. "Don't Forget the Stamp."-J. C. Advt. Brakeman, 179 Penrose street, Sarnia. "Don't Forget the Stamp." Mrs. Hooley, 140 Giles street, London. "The Sinking Fund." R. L. Slatterie, 303 Romeo street, Stratford. "Still Passing the Bait." F. Gordon

Abbotsford, Hespeler road, Galt. "I'm Going Shopping, Not to Church. D. M. Coulter, 137 Douro street, Strat-"A Modern Shylock." Mrs. Dill Cor- lash "Hey! I Am No Rockefeller." Mrs.

A. Hamilton, 482 Church street, Wind-

"The Almighty Dollar." C. Jeanne effect the operation of the engine and "What's That For, Church Collection?" William G. Bugler, 1034 Trafalgar street, London. "Who Said 'The Woman Pays?" Ernest Violot, General Delivery, Wood-

"Don't Forget to Put On the Stamp." -, 24 Tecumseh avenue, "Just Dues." Edna C. Jennings (no

"Pa's Regular Customer." Fenton Wilson, 22 Main street, Simcoe. "The Personal Touch." 7 Comfort Place, London. Sanatorium, Tillsonburg, Ont. | position.

"Touching Father." H. B. Ruther-"Gimme!" James T. Fisher, 516 King

Dough." Fred Young, 80 Emery street,

"The Common Interest." Miss E "The Latest Model of a Dough Mrs. Schneider, Box 868, Brampton, Ont.

"To Order." William H. Donaghy, 2258 Bloor street, Toronto. "Overhead Charges." Arthur Kearns 'A Touch, A Touch, I Do Confess.' Brickwood, 61/2 Cartwright street

"Making a Name For His Wife." Mrs. St. John, 768 Dundas street, Lon-"The Will of the Conqueror." Amy Hessey, 385 Grey street, London,

Dr. Thomas' Eclectric Oil in the farmhouse will save many a journey for the dren when taken with colds and croup The following titles are worthy of and for the mature who suffer from pains and aches, but there are directions "-And Put a Stamp On It, Too!" for its use on sick cattle. There should

> An excellent pipe joint cement can be made from a mixture of brown shellac and flake graphite.

The only remedy for worn gears is replacement; however, chains may generally be adjusted to eliminate the back

Wear in the timing gears and their

oushings, or chain and sprocket, will

A flat tire on a front wheel is much more dangerous than one at the rear. A front tire blowout may turn the car

Smashed hub caps should be replaced mmediately. Otherwise they permit dirt and grit to enter and wear the bearings, while grease is oozing out.

into a ditch.

For safe backing, especially at night with a white light is advised. This can be mounted on a bracket and

Motor Buying Public Jolts the Statisticians

That the American motor-buying every five persons. What has happened nouncement of the new Nash models public refuses to be bound by the in these states is at least possible in statistician's hard and fast dictum that many of the others. the point of "saturation" is near at OUTPUT STILL MOUNTING. hand is the conclusion of The New

to the point where it vies with building The Herald observes editorially:

"It is calculated by the Cleveland Trust Company that the American people have spent \$6,600,000,000 in the last four years for automobiles, two-thirds as much as they have spent in the same period for new buildings. Is such a ratto likely to be permanent? Or will it gradually swing more in wealth. Even if the saturation point should be reached the automobile plants would not shut down. Men in the trade estimate the replacement market to be close to 2,000,000 cars a year. This allows an average use of six years for each car, which seems conservative enough.

"Meanwhile current production forms."

CAR FOR EVERY FAMILY.

point is. It seemed impossible at one soon fall out of the market. American public paid no attention to vindication of these predictions. the statistics, and now there is one automobile to every two American BIG FOREIGN MARKET.

vehicles registered in the United States. vehicles. Now, in only eight months In 1910 there were 468,497. In 1917 of the present year, 2,692,000 autoincrease of 764,052 since the first of the average rate for the eight months.

"Doubtless for any given place and York Herald, in calling attention to the growth of the automobile industry upward with the gradual increase of oversold to a greater extent in Sepwealth. Even if the saturation point

Or will it gradually swing more in ahead. When 2,205,197 motor vehicles establishing for Nash Motors a new favor of housing as the "saturation were produced in the United States in record in public demand and volume of point" is approached for automobile 1920 there were persons who declared sales. that such a fantastic output could not

go on, that the people wno were buying on the various fairs held throughout "Such questions raise the further automobiles did not know what they problem of just where the saturation were doing, and that the bottom would time that there could ever be more "When, in 1921, automotive producthan one automobile to every five tion was only 1,661,550 cars, the first of the country, but is a condition that families. When this goal was reached time in the history of the industry, in 1917 there was talk of the saturation with the exception of the war year

point in earnest. Economists and statisticians could prove that it had had fallen below that of the previous already been reached. But the great year, the drop was pointed to as a "But in 1922 production reached the "In 1900 there were 13,824 motor unprecedented record of 2,659,064 motor

there were 5.104,321; in 1921, 10,464,005; mobiles have been turned out, a greater in 1922, 12,239,114. On July 1 of this amount than for the whole of last year. year the bureau of public roads now And production this August, at 348,000 announces there were 13,002,427, an cars, was substantially above the "When and if the saturation point

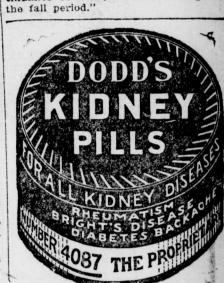
"How much more can the total grow? is reached in this country our manu-Will 15,000,000 be the limit? With fewer facturers will doubtless devote increas-

Sales of Nash cars for the first cirm months of 1923 surpass the mark established for the full 12 months of 1922 This announcement by E. H. McCarty general sales manager of The Nash Motors Company, is supplemented by the statement that, following the anin excess of production.

"As a matter of fact," said Mr. Motime there is a saturation point. But Carty, "the factory was oversold in the saturation point itself keeps moving August one thousand cars and will be

> "Reports received by us from dealers the country since August 1 tell of public interest in the Nash lines. This interest is confined to no particular sections

is general. "Every indication points to a continuance of heavy demand throughout



280 Maitland St. London, Ont. H. J. WALLIS, 74 Anderson Ave. JONES & SPRY, 381 Glebe St. ALEX. CAMPBELL, 42 Beaconsfield Ave SAM WILLIS, 765 Talbot St. YOU Put the Vulcanite Hexagon Slab Through These Severe Tests-

These Tests Prove Vulcanite Quatity

1. Lay the sample on a hot radiator for 12 hours—see if it will melt or dry out.

2. Lay the sample on ice for 12 hours-then pour boiling water on it. See if the sudden extremes of temperature affect it in any way.

3. Soak the sample in water for 12 hours—see if its weight shows any absorption.

4. Immerse the sample in nitric, sulphuric, muriatic or other ordinary acidsee if it is affected.

5. Lay a glowing hot coal of fire on the sample-see if it sets fire to the SEND the coupon below for a sample of the Vulcanite Hexagon Slab Shingle. You put the sample to the tests listed here. Do your best to harm it. You never saw a roof which will stand up like Vulcanite. Then you will realize that in its heavy, rigid tough-

ness; its fire-resisting and weatherproof qualities; its beautiful and distinctive appearance-lies the solution to your roofing problem.

Vulcanite Hexagon Slabs, because of their exclusive, patented design, insure double protection everywhere-a tight seal against any weather-a deep tile effect and a heavy shadow line. More square inches of roofing than in any other slab shingle. Made from tough, long-fibre, pure rag felt, impregnated through and through with finest asphalt. Quickly and economically laid over roof boards or right on top of the old shingles. Finished in green and red crushed slate.

Vulcanite Roofing of the same high quality also comes in individual shingles, four-in-one slab shingles, and in rolls, both slate surface and smooth finish-for home, farm and industrial buildings. You can identify the genuine by the Vulcanite name and the Beaver Trademark.

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Administration Offices: Buffalo, N.Y. Thorold, Ont. London, Eng. Sales Offices:
Thorold, Ont., and Winnipeg, Man. Also Manufacturers of Beaver Wall Board



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"Signing the Peace Treaty." A. Yeo, Comfort Place, London.
"The Sign of Peace." Golding Hulse, works when the gear-shift is in reverse GEO. H. BELTON LUMBER CO. Rectory St. and C.N.R. **Phones 117 and 118**

MCLAUGHLIN-BUICK