

be practically stationary. He thought, perhaps, if the price of coal keeps going skyward it might make a cent or two difference in the price, but with a manufacturing cost of 2½ cents per gallon, not including overhead charges, it will be possible to sell the nuoline at 10 cents a gallon and leave a fair margin of profit.

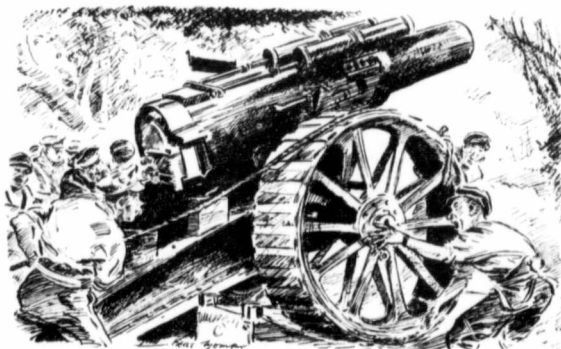
Mr. Grogan said that a road test of 415 miles had just been concluded, a Mitchell car having been run to Albany on the east side of the Hudson, and then to Schenectady and Utica, returning via the west side of the river via Newburg, Tuxedo and the Fort Lee ferry. The average was 11 miles per gallon of nuoline and the performance was said to be perfect for the entire trip. Mr. Grogan announced that a company is being incorporated to manufacture nuoline commercially. The president will be Senator Robert Lawson, of Brooklyn. Associated with him will be Mr. Grogan, M. Clemont, the inventor; Dr. H. O. Lehman and H. Roes, and some others probably will be included in the corporation.

Mr. Brokaw thought the test was hardly exhaustive enough for him to give unqualified approval of it, but said it appeared to do the work of gasoline. The color is about the same as gasoline, but it feels a little more oily, and it seems to run the engine more evenly than gasoline, the explosions apparently being quite as powerful, so that the evenness was not due to lessened propulsive force in the cylinders. He is hoping for further and more exhaustive tests, for he feels that if nuoline really will do the work of gasoline it will solve the most important factor in the high cost of expense of auto operation.

Wasn't a Ford, Anyhow

"What kind of a model is your automobile?"

"It isn't any kind of a model," replied Mr. Chuggins, gloomily. "It's a horrible example."



Excited Tommy (as the gun gets into position): "Ere, back 'er down a bit. She's on my fag!"

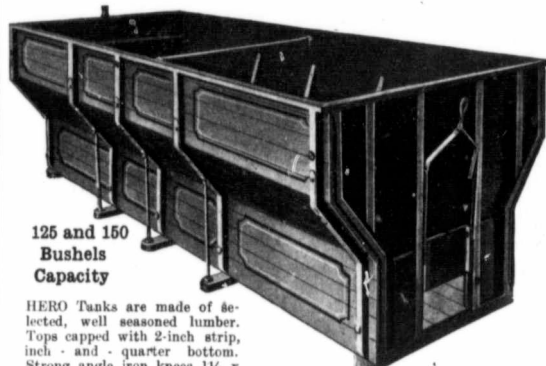
HEAT INSULATING EFFICIENCY OF MATERIALS

Study of the results of an investigation of the heat-insulating efficiency of various materials has been made by the United States Bureau of Standards, and although absolute statements would not be warranted at the present stage, certain preliminary conclusions have been stated. In general, it appears that gypsum shows a greater efficiency as a fire-insulating material. Concrete and clay vary somewhat, depending upon their porosity. The denser clays conduct the heat a little more rapidly than concrete. The more porous clays, however, conduct heat somewhat less rapidly than the concrete. The effect of the aggregates on the concrete is not very marked in changing the relative conductivity. There is little difference in this respect between gravel, trap rock, slag, and soft-coal cinder aggregate. Limestone concretes, however, seem to stand out as giving a much lower conductivity. There was found to be but little difference between the behavior of the gypsum specimens furnished by different manufacturers. The dense high-plaster mixtures give much better results than the porous low-plaster, high-water mixtures.

Many a man has been surprised to be told that he saws his whiskers off. Yet this is exactly what he does when he shaves. Examination of the edge of a well sharpened razor, under the microscope, shows not a smooth edge, as was once supposed, but a series of more or less regular teeth. This saw-tooth edge, says E. R. Gross, of the Colorado Agricultural College, is the junction between the two surfaces of the blade and cannot be avoided.

If this is the condition on a highly polished razor blade, continues Mr. Gross, what enormous hills and valleys must one expect to find on the surface of the ordinary polished bearings used in machinery and motors. These

Hero Grain Tanks



125 and 150
Bushels
Capacity

HERO Tanks are made of selected, well seasoned lumber. Tops capped with 2-inch strip, inch - and - quarter bottom. Strong angle iron knees 1½ x 1½ x ¼ inch. Lined with hardwood. Angle iron joint between sides and bottom ensures flax-tight construction. Braces are adjustable to overcome sagging—an exclusive feature. Large stock on hand.

If your dealer does not carry this line write direct to

Hero Manufacturing Company, Limited
WINNIPEG (Under New Management) CANADA

STOP!

LOOK
HERE!



**Mr. Farmer
Merchant
and
Country
Butcher:**

We are in the market to pay you the highest market prices for your Hides, Sheep Skins, Wool, Seneca Root and Raw Furs, and guarantee you honest assortment for anything you may ship us and prompt returns assured. Write us for prices and shipping tags and any other information gladly furnished on request. At your service. Come, ship us a trial shipment and be convinced upon request we hold goods separate for your approval of our valuation.

NOTICE—SALT ALL HIDES WELL IN WARM WEATHER.

The B. E. Hogan Hide and Fur Co., Limited
Local: Phone Garry 4051
Long Distance: 362 Pacific Avenue, Winnipeg, Man.

Johnston's Granary

Handy. Rigid. Safe.

Protect your grain from fire, lightning and rodents. Set up a Johnston's Granary—metal covered and tight as a drum. The grain can't bulge the walls. You can place it where it will be handiest; and move it from place to place if necessary.

METAL DOOR—LOCKED JOINTS

Johnston's Granary is protected from 4-bagged thieves and from fire by galvanneal iron walls with locked joints. Iron bands with tension bolts hold the walls against bulging. The door is iron covered. Inside there is a sectional door to hold the grain. The sections of the roof hook together and offer a solid metal resistance to wind, water and snow.

Grains cannot heat or mildew. A 14-inch galvanneal ventilator provides plenty of air. Johnston's Granary is fitted at our factories and shipped ready to set up. Full details on request.

DINNER GRAIN UNLOADER.

Can be used anywhere on the farm. Send for literature and prices. The Metal Shingle & Siding Company, Limited, Winnipeg, Man.



TURN TO
OUR

Startling Contest

ON
PAGE 42C

There's a New Ford Car in it for YOU