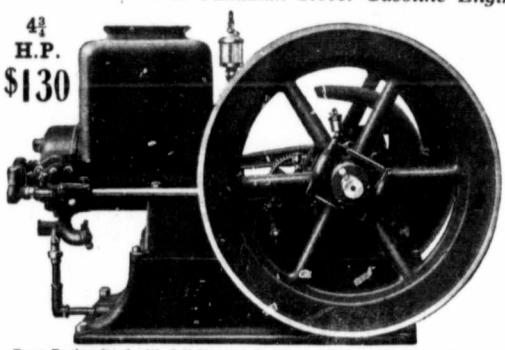
THE ORIGINAL FARMERS' COMPANY

BIGGER AND BETTER THAN EVER!

The Canadian Stover Gasoline Engine Company have always given Best Quality

4¾ H.P. $130



Every Engine fitted with Self-Cleaning Igniter. Gasoline Tank in Base.

Note Our Latest Offers:

1½ H.P. Engines, complete with pulley **42.50**

3 H.P. Engines, complete with pulley, self-contained **85.50**

4½ H.P. Engines, complete with pulley, self-contained **130.00**

7½ H.P. Engines, complete with pulley, self-contained **195.00**

Power Washer, reversible wringer, enameled drain board, drains from the bottom; both washer and wringer controlled by small lever. Complete with wringer **22.00**

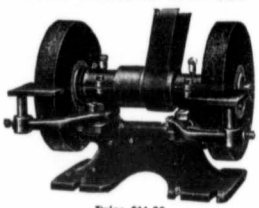
Every Engine is guaranteed perfect in workmanship and material and to develop much more than the advertised Horse-Power.

Our Exclusive Safety Device

Compare Our Goods with the Best on the Market

WRITE FOR CATALOGUE

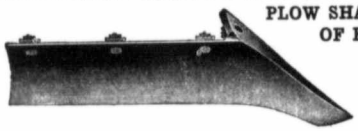
Tool Grinder No. 310



Price $11.00
Complete with sickle-grinder attachment

Plow Shares

Cheap Plow Shares kill horses. These fitted Plow Shares are absolutely guaranteed first class in every respect. They are standard in Make and Quality. Stubble, Breaking or Engine Plow Shares same price.



PLOW SHARES
OF EVERY MAKE
PRICE LIST

	Each
12-in. Shares	$2.00
14-in. Shares	2.25
16-in. Shares	2.50

Write for Catalogue

The Canadian Stover Gasoline Engine Co. Ltd., Brandon, Man.

Gas Engine Troubles

By A. C. CAMPBELL

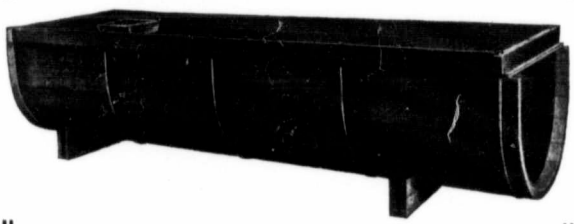
Article Number 4

AT the close of our last article we were discussing the question of running an engine too cold and thereby losing power or using an excessive amount of fuel for the power delivered. To enable our readers to more thoroughly understand this matter it will be well to devote some time to the discussion of the relationship between heat and work. Heat is not a substance but a condition. It is a form of energy.

In measuring anything, whether a substance or a condition, we must have a definite unit. For instance, one pound is the unit of weight, one foot the unit of length and so on in all measurements. A degree of temperature is the unit used in measuring the intensity of heat but not the amount of heat. The unit of the amount of heat is called the British thermal unit and is invariably expressed by the letters B.T.U. A B.T.U. is the amount of heat required to raise the temperature of one pound of water, one degree F when the temperature of the water is 62 degrees F.

There is a definite relationship between heat and work, that is to say, if we have a certain amount of heat in a fuel it is equivalent to a certain amount of energy or work.

Careful experiments have gone to prove that the mechanical energy of one B.T.U. is 778 foot-pounds. A pound of fuel contains a definite number of B.T.U. and therefore the greater number of heat units transformed into work by the engine, the more efficient is the engine. A pound of gasoline contains from 18,000 to 20,000 B.T.U. and a pound of kerosene contains from 22,000 to 24,000 B. T. U. If we conducted a test with a gasoline engine and found that of the 20,000 B.T.U. in a pound of gasoline, 5,000 were delivered in the form of work then the efficiency of the engine would be 25 per cent. That is to say, 25 per cent of the B.T.U. have been transformed into work. It should now be plain to the reader that if



When you think Thresher Tank, think

"Saska"

and ask any Implement Dealer in Western Canada, or write us for Special Delivered Price.

"SASKA" MANUFACTURING CO. LIMITED

SASKATOON SASKATCHEWAN