

## TRADE TOPICS.

**HECLA FURNACES.**—A saving of one ton of coal in seven is the claim made on the strength of a three years' test for the Hecla steel-ribbed fire-pot, one of several features of the Hecla furnace, manufactured by Clare Bros. & Co., Limited, of Preston, Ont. Other features are the all-cast-iron combustion chamber, and the famous fused joints, insuring a gas-proof, dust-proof and smoke-proof furnace. For suggestions in planning your heating arrangements, write Clare Bros. & Co., mentioning this paper.

**BAKER BALL-BEARING WIND ENGINES.**—Windmill power for pumping purposes is growing in popularity, as it is economical and requires a minimum of attention. The only debatable question, therefore, is, what are the best makes? While there are several good ones, there are points of preference and superiority in this as in other machinery. Readers in need of windmills will be interested to learn that an old-established firm, the Heller-Aller Co., manufacturers of the Baker Galvanized Steel Ball-bearing Wind Engines, whose factory and general offices at Napoleon, O., cover over 150,000 square feet of floor space, are closing a deal with a view to opening a plant at Windsor, Ont. Simplicity of construction, workmanship and durability, are recognized features of the Baker mill, while the manufacturers claim the following improvements: "The wheel revolves around a stationary steel spindle, instead of being keyed to shaft and revolving in box; the pump rods are operated by means of a chilled steel, ball-bearing eccentric, instead of the old-style pitman attached to wrist pin. The mills are easy-running and noiseless. The mechanical principles of the Baker Wind Engines are original and unlike any others." Some advantages and distinctive features of Baker Back-geared Engines are mentioned in the advertisement which appears on another page.

Besides windmills, the Heller-Aller Co. manufacture galvanized steel towers, sub-structures, suburban outfits, flag towers, bell towers, pneumatic pressure tank systems, gasoline engines, cylinders, hydraulic regulators, hydrants, pressure house-tanks, pumps, tank valves and floats, galvanized steel tanks, pine and cypress tanks, cisterns, tank heaters, feed cookers, etc. We welcome this firm to Canada, and advise our readers to get in touch with them. Write for catalogues to the Heller-Aller Co., Windsor, Ont., mentioning this paper.

Uncle Ephraim had two hogs, which he kept in a pen at the rear end of his little lot. They were of the "razor-back" variety, and, although they were fed bountifully with kitchen waste, it seemed impossible to put any fat on their attenuated frames. One morning when he went out to feed them they were not there. They had disappeared, leaving no clue to the manner in which they had made their escape.

"What's the matter, Uncle Eph?" inquired a neighbor, noticing the deep dejection with which the old man was looking down into the empty pen.

"My hawks is done gone, sah," he answered.

"Stolen?"

"No, sah. I don't see no signs dat anybody tuck 'em."

"Did they climb out over the top?"

"No, dey couldn't a' done dat."

"How do you think they got away?"

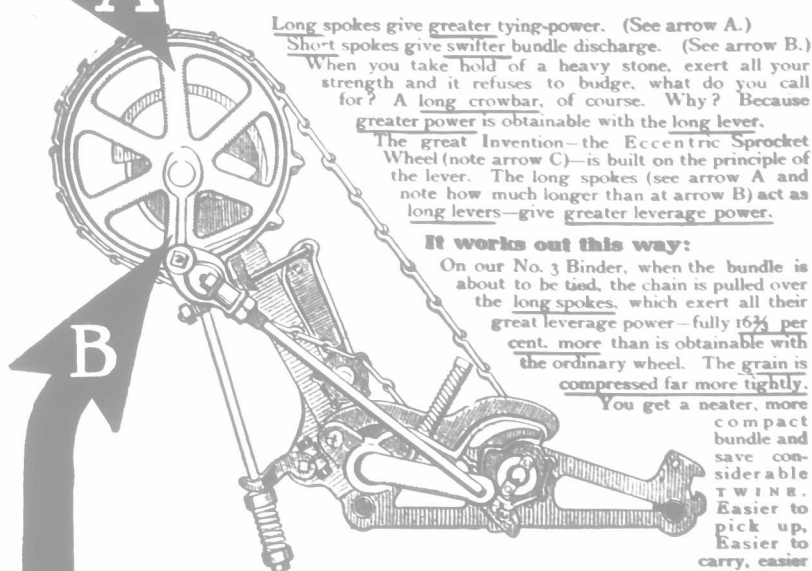
"Well, sah," said Uncle Ephraim, "my 'pinion is dat dem hawks kind o' raised deirselves up on aidge an' grope through a crack."

A stolid German who was coming over to America, had the misfortune to fall overboard, but the alarm was given instantly, and, after a very exciting experience he was rescued. That evening he appeared on deck, not much the worse for his mishap, and was surrounded by a number of passengers, who evinced a great interest in him.

"Oh, me," gushed a wide-eyed young woman, "how did you feel when you fell overboard, and the ship had gone on, and you were left alone in the ocean?"

The German looked at her calmly. "Well," he answered,

## READ ABOUT THE GREAT INVENTION THE ECCENTRIC SPROCKET WHEEL



Long spokes give greater tying-power. (See arrow A.)

Short spokes give swifter bundle discharge. (See arrow B.)

When you take hold of a heavy stone, exert all your strength and it refuses to budge, what do you call for? A long crowbar, of course. Why? Because greater power is obtainable with the long lever.

The great invention—the Eccentric Sprocket Wheel (note arrow C)—is built on the principle of the lever. The long spokes (see arrow A and note how much longer than at arrow B) act as long levers—give greater leverage power.

### It works out this way:

On our No. 3 Binder, when the bundle is about to be tied, the chain is pulled over the long spokes, which exert all their great leverage power—fully 16 2/3 per cent. more than is obtainable with the ordinary wheel. The grain is compressed far more tightly.

You get a neater, more compact bundle and save considerable time. Easier to pick up. Easier to carry, easier to shock.

Immediately after our Knotter ties the bundle, the chain is pulled over the short spokes (see arrow B and note difference in length of spoke as compared with arrow A). The shorter spokes greatly increase the speed of the chain. The bundle is given a swifter discharge than with ordinary wheel, and the needle is speedily brought back, out of the way of the downcoming grain, into position for the next sheaf.

The Eccentric Sprocket does this, too—it prevents that "jar" or "jerk" always noticed on other machines when a bundle is being tied and discharged. You will not feel it on the No. 3; neither will your horses be annoyed by it, nor "the life" of the machine be shortened. Frost & Wood No. 3 runs along and does its work without even a suggestion of that "jerk."

Now, you see why every maker would put the Eccentric Sprocket Wheel on his binder if we did not control the patents for Canada. You see why it's wise to invest a post card and get our Binder Booklet so as to become thoroughly posted on the peer of them all—the Frost & Wood No. 3.

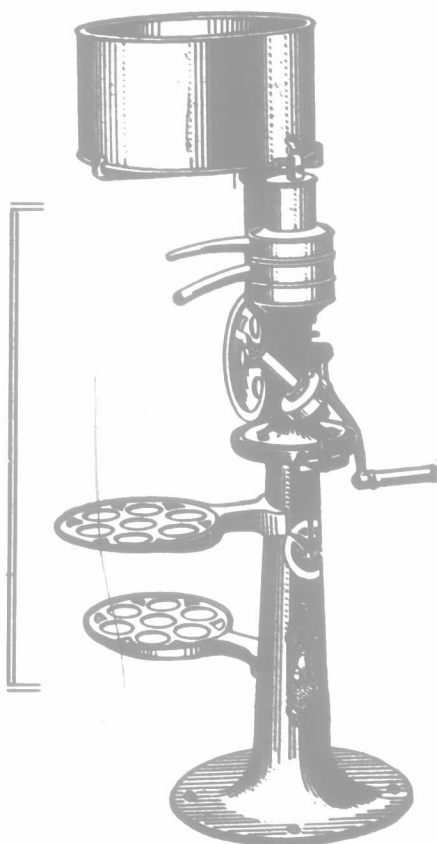
You are on the right track when you start investigating our No. 3—the binder that is built by a purely Canadian Company, who thoroughly understands Canadian conditions. We would like you to read a few of the hundreds of testimonials we have received from Canadian farmers, which back up our claims to the letter.

Just write us for catalogue F 47

**The Frost & Wood  
Company,  
LIMITED.**

**Smith's Falls, Canada.**

## Frost & Wood No. 3 Binder



## The CAPITAL Is the Cream Separator that will "Buy Itself" For You.

As soon as you have read this advertisement, sit down and write a post card for The Capital book—the book that not only tells the story of the easy-running, cream-saving separator, but that tells how you can put The Capital in your own dairy practically without costing you a cent.

The book also tells all about the wonderful Capital gears, about their perfect meshing and non-wearing qualities—how they run in oil—how an automatic clutch stops them running the minute you let go of the handle—and about how they give the light, three-and-a-half-pound bowl 7,000 revolutions a minute.

It tells how and why The Capital skims closer—why The Capital wastes less than one-fifth the cream that other separators waste—and then explains how the machine can be made sweet and clean in two minutes after you are through using it.

This book is full of hard-and-fast facts—separator facts—which every dairyman owes it to himself to know; facts which will prove a revelation to the dairyman who is not familiar with The Capital.

Write for the book to-day—NOW.

**THE NATIONAL MFG. CO., LIMITED.**

Head Office: Ottawa.

Factories: Ottawa and Brockville.

Branch Offices:—Regina, Sask.; Edmonton, Alta.; Moncton, N.B.

## Present Your Daughter With a Bank Account

Present your daughter with a bank account and a monthly allowance. Have her pay her accounts by check. Tell her what she saves will be hers.

**3 1/2 %**

This will teach her to be thrifty, and give her an education in the value of money—knowledge every girl should have. \$1 opens an account; 3 1/2% interest, according to agreement. Obliging clerks.

**Agricultural Savings & Loan Co., 109 Dundas St., London, Ont.**

**PLEASE MENTION THE FARMER'S ADVOCATE.**