

## TRADE NOTES

The Jencks Machine Co., of Sherbrooke, P. Q., have given an order for smelting furnaces.

Messrs. Runciman Bros., of Godenoh, have contracted with Mr. Yurav of Keene, Ont., to change his flour mill to the roller system.

Messrs. J. & S. Clemens & Co., of Preston, Ont., have added one of Goldie & McCulloch's largest sized moulding and matching machines to their planing mill.

Mr. Geo. Cassidy of False Creek, B. C., has purchased through Messrs. Strickland & Co., of New Westminster, a Goldie & McCulloch 75 horse power Wheelock engine, and moulding machine.

The contract for remodeling Sir, W. P. Howland's flour mills at Thorold, Ont., has been let to the Geo. T. Smith Co., Stratford. The mill when completed will have a capacity of 400 barrels per day. The cost will be about \$15,000.

Mr. H. W. Petrie, of Brantford, has shipped a car load of iron working machinery to a large Detroit Iron Works which is being erected there. It is a most unusual thing for Canadian machinery to be sold in the United States, and speaks well for Mr. Petrie.

Messrs. Goldie & McCulloch, of Galt, are making some extensive improvements to Taylor & Co's, mill at Chatham, Ont. The plant includes thirteen sets 9 x 30 rolls, 4 scalpers, six purifiers, including three of Holt's new patent "dustless" machines, the first of the kind in use in Western Ontario. The capacity of the mill will in future be 300 barrels daily.

It is stated that the Cochrane Roller Mill Company of Escanaba, Mich., of which Valancy E. Fuller is President, has absorbed the W. F. Cochrane Roller Mill Supply Co. of Dundas. This was not an unlooked for event, as the former President of the Canadian Co., V. E. Fuller, the Superintendent, F. H. Brewster, and the Chill Roll Maker, Edward Condor, now occupy similar positions, at Escanaba, in the American Co. We do not know whether the Dundas shops will be operated by the American Co. or not, but we understand that the Cochrane train of rolls will be manufactured and supplied to the millers in Canada.

### PROGRESS IN INCANDESCENT LIGHTING.

Great progress is being made in incandescent lighting. The difficulty heretofore has been in supplying incandescent lights at a distance from the source of power by a safe, economical, and practical method. The low-tension currents in use are only suitable for lighting within a circle say, three-fourths of a mile in diameter, the power being located in the centre. The Ball Electric Light Co. have recently brought out a system for supplying 10, 25, or 50 c. p. lamps at any distance from the power, say, within five miles, which means a circuit of ten miles. This is done with a purely constant current, doing away with the danger which is incurred from the use of the alternating current of high electro-motive force. The current is carried on a single wire, which makes the appearance of the wiring on the streets and in the houses much neater. Perfect safety is assured from the fact that all proportions of the lamps and sockets are completely insulated. No metallic portion of the circuit can come in contact with the person, and even should it do so the current used is so small and of such low-tension that the wires may be handled with safety. The loss from overcoming the resistance is but one 25 c. p. lamp in each mile of wire, No. 8 wire being used, and about 220 c. p. is obtained to the horse-power. A new type of Ball double armature dynamo is used with this system, and regulation is obtained by novel contrivances. It is claimed that this is the most economical system, both in installation and maintenance, that has yet been brought forward for incandescent lighting, and the cost for the renewals of lamps is very slight, as they have a long life and do not blacken and there is no annoyance from burning out of armatures, fuses and converters as in the alternating systems.

### FILING SHINGLE SAWS.

Of this style of saw we hear and see but little in the way of information about keeping it in order, says a writer in the *Woodworker*. This can be attributed to the fact that good shingle saw filers are as scarce as rotary filers who can master their own saws. I have the opinion of but few on this subject, and have caught what I know about shingle saws almost from my own experience, and while I do not wish to boast, will say that I am actually sawing \$25 worth of timber a

day in using 18 and 19-gauge saws over my neighboring filers who are using 15 and 16-gauge saws; besides I am making the smoothest shingle on the same feed. This assertion can be proven.

These filers are considered first-class, and are paid from four to five dollars per day for their work. What can be the trouble? First, I run 120 teeth to a saw, to their 80 and 90. Now there is hardly a limit to the amount of teeth a shingle saw can have. A saw running on 1/4-inch feed does well with 140 teeth, and should have that number if economy in timber is sought for, which certainly ought to be the aim in sawing shingles.

Talk about economy in thin saws for board sawing, I have seen men have the thin saw craze as far as their large circulars were concerned, yet pay no attention to what their shingle saws were doing, when in reality the shingle saws were throwing away thousands of dollars annually in sawdust.

A thin shingle saw will not run with the same number of teeth that a thick one will. A 16-gauge saw will not run as well with 80 teeth, as a 19-gauge will with 130. Each tooth cuts then a fine shaving, making a perfectly smooth shingle, where if the same saw had a much less number of teeth, they would be springing, dodging and making clips.

There are many things to be taken into consideration in using thin shingle saws. First, collar, saw and pulley must be in perfect balance, and run at a high speed; teeth as short as possible to clear, with round throats, filed perfectly square, with a partly spring set and a little swaging. This latter many will condemn until they have had experience with thin saws running on a power feed machine. Some may ask, why should and how can such thin teeth be swaged? The reason that they must be swaged a trifle is this: The teeth of an 18 or 19-gauge saw are very thin, and to give the saw the set that it must have, leaves a little core or part in the centre of the cut that the teeth does not remove.

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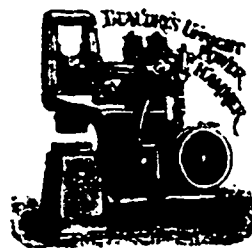
### OBJECTS.

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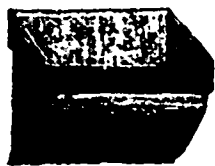
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H. W. PETRIE of Brantford has the following Wood Planers for sale.

ONE new Eclipse Planer and Matcher, Galt make.

NO. 5 new style Planer, Matcher, Moulder and Header, Cowan make.

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NO. 2 Planer and Matcher, Galt make.

PLANER and Matcher, Michael's make, Detroit.

LITTLE Giant Planer, Matcher, Molder and Header. Price \$300.

24 inch Planer and Matcher, Dundas make.

NEW Pony Planers and Matchers, only \$175.

27 inch double Surfacer, Revolving Bed, Cowan & Co's, make.

24 inch Pony Planer, Frank & Co's, make.

24 inch Pony Planer, Ross make, Buffalo.

NO. 4 Pony Planer, McKechnie & Hertram build.

NO. 14 Goldie & McCulloch Pony Planer, new style.

24 inch Wood Frame Planer, Kennedy & Son's make.

24 inch Wood Frame Surface Planer, cheap.

24 inch Surface Planer, Roger's make.

24 inch Pony Planer, Cowan make.

23 inch Surface Planer, American build.

21 inch Wood Frame Planer, Kennedy & Son's build.

22 inch Surface Planer, McKechnie & Hertram.

22 inch Wood Frame Planer in good order.

20 inch Wood Frame Planer in good order.

20 inch Pony Planer, Frank's make, Buffalo.

16 inch Heading Planer, Inglis & Hunter, maker.

12 inch Diagonal Buzz Planer, Galt make.

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ONE Planing Machine Knife Grinder.

POWER'S Wagon Jack, all iron. Smallest, packs up close; lightest, weighs only 10 lbs; quickest, ready for any height from 12 to 32 inches; self-locking, lever carries just the centre; strongest, 100 lbs pressure will raise 1,000 lbs; nicely painted; has largest sale of any Jack; retail price \$1.50.

Full particulars of any Planer in above list on application, H. W. PETRIE, Brantford. Toronto branch, 9 York Street.

### TRUSTEES' SALE

—OF—

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THERE will be sold by Public Auction at the Auction Rooms of W. V. BRUNTON & SON, 181 Dundas Street, in the City of London, on THURSDAY, JUNE 20th, 1889, at 2:30 p. m., that valuable mill and property known as "Hunt's City Mills," which is of brick, with stone foundation, situate on the River Thames, and within two minutes' walk of the market. This mill was fitted with all the modern improvements in milling within the past year. The capacity is about 200 barrels; powerful water power, with steam auxiliary, which has to be used only occasionally. The vicinity of London is one of the best wheat-producing sections of Canada and is the central point of many railroads. The mill is now running and is first-class in every respect, and is sold simply because the trust deed requires it to be so disposed of. Also, at the same time and place, the substantial Grain Warehouse, 40 x 60, brick foundation, on N. S. Bathurst Street, west of Talbot Street, on main line of Grand Trunk Railway.

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