

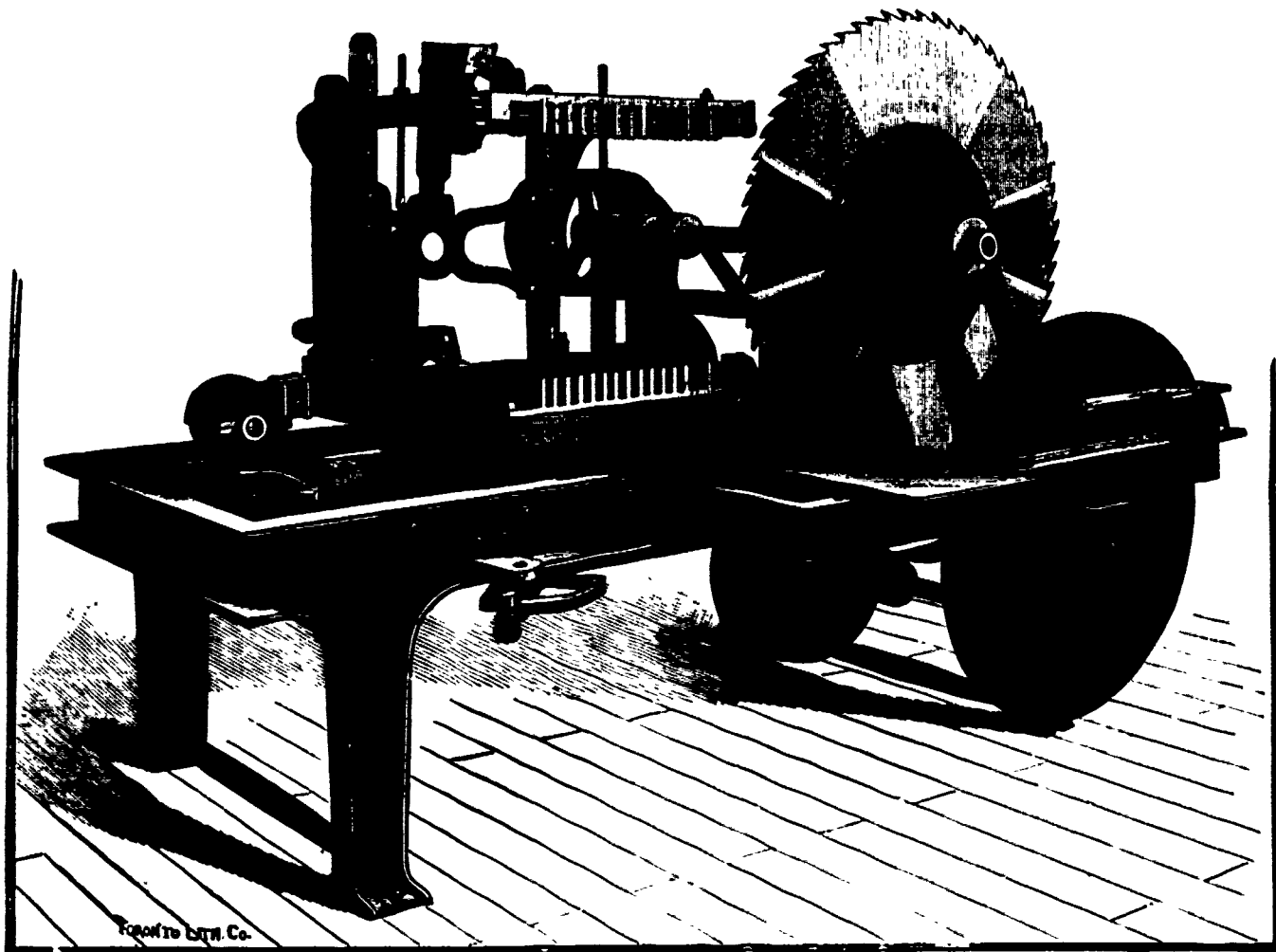
THE LANE SHINGLE MACHINE.

AN illustration is given herewith of the Lane shingle machine, as manufactured by the Lloyd Manufacturing and Foundry Company, of Kentville, Nova Scotia. This machine is used very extensively in the United States and Canada, over one thousand having been sold in the former country, where the patentees, the Lane Manufacturing Company, have been awarded numerous gold medals and diplomas. Regarding the construction and operation of the machine, the manufacturers state that the saw arbor is of best steel and $2\frac{3}{4}$ inches in diameter, with bearings 10 inches long, lined with best babbit

attached to carriage on front and running on track. By an attachment to handle that starts and stops carriage is a pall, so arranged that when handle is turned to stop carriage, this pall engages in a toothed rack fastened to bottom of carriage, and securely locks carriage, which overcomes the dangerous objection in many other machines when carriage starts as operator is putting in block, and often causes the loss of an arm.

The top casting that holds block is arranged with two powerful springs with means for making the tension greater or less by a thumb nut. The top of shingle carriage is raised to receive block by a foot treadle which is not shown in cut, but

eccentric. On offset lug is a slotted lever or crank, having slot 3 inches wide and 18 inches long. Fastened to spoke or friction pulley is a pin with a 3 inch roller which fits in the slot of lever or crank; thus when you revolve friction pulley, and 3 inch roller is opposite full turn of lever, it will be at farthest end of slot in lever or crank, and when friction pulley is turned a half turn from this point, 3 inch roller attached to spoke of friction pulley will be three and one half inches from centre of fulcrum; thus to each revolution of friction pulley, it gives one slow and one quick motion return of carriage, four to one, this being done without the aid of any weighted movement.



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metal; size of driving pulley, 13 inches in diameter and 10 in. face. The brackets that hold bearings are adjustable by screws, so that at any time they can be adjusted to line saw with carriage.

The block carriage is mounted on wheels, two large V wheels on back running on V track, which are provided with means of taking up all lost motion in case of wear, and on the front carriage runs on flat rollers of large diameter, being secured to framework of machine; the rail or way being attached to front of carriage. By this means the sawdust is prevented from sticking, as is the case when the wheels are

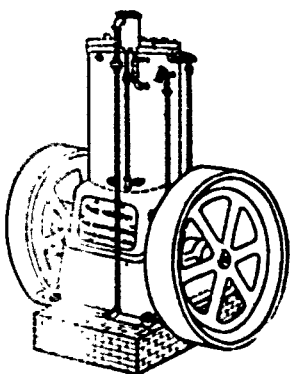
urnished with each machine. The feed has cones of two steps for varying the feed to suit the class of timber to be sawn. Attached to the cone shaft is a leather board friction, which is engaged or disengaged to friction pulley thirty-four inches in diameter, by simple movement of handle shown at side of machine. The large friction pulley revolves on a sleeve bolted solid to framework of machine, with sleeve extending about $2\frac{1}{2}$ inches through hub of pulley. Attached to the end of this sleeve is a casting with a lug pin three inches in diameter, which is offset from centre of sleeve 8 inches, swinging or revolving on this

The jointer is built attached to frame of machine as in engraving, or furnished separately when so ordered. The shingle rest or table is arranged with a swinging piece next to saw, which provides for shims or pieces getting between it and saw by it giving away and letting pieces through, then springing back; in machines where this is not provided for, many expensive accidents have occurred, and saws ruined by pieces getting in and crowding saw over against carriage.

The Lloyd Manufacturing Company will gladly furnish additional particulars of this machine to interested persons.

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