

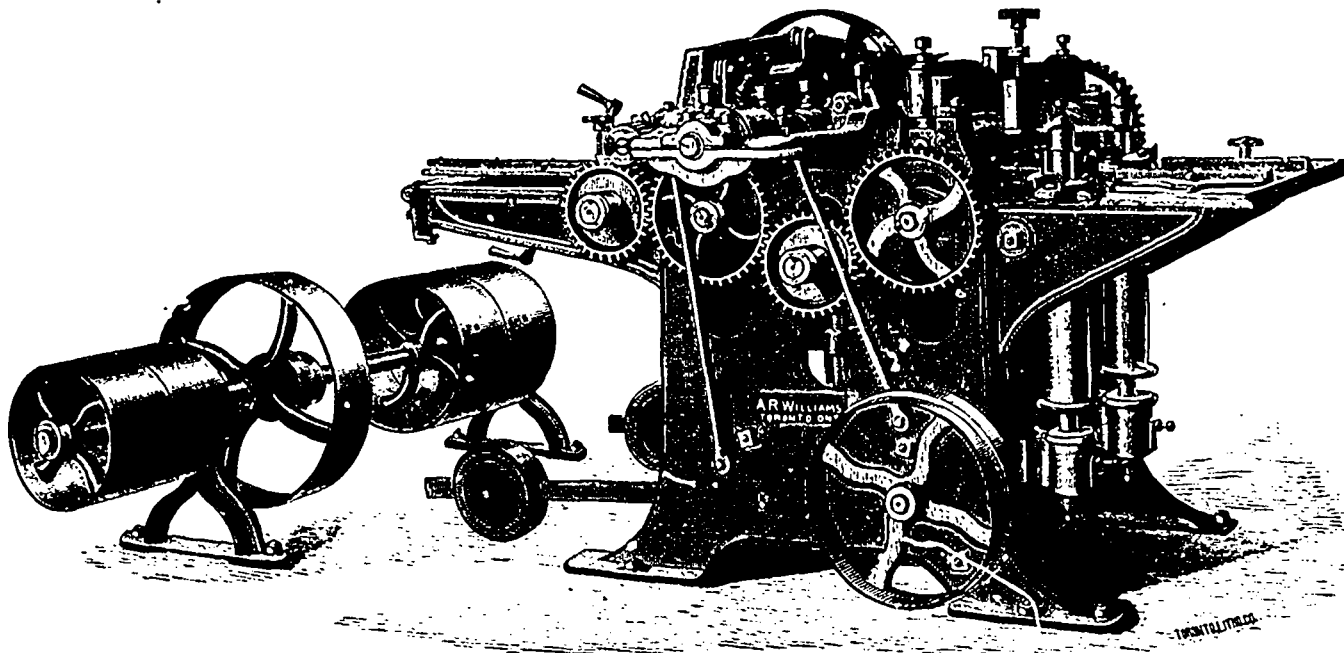
### ECLIPSE PLANER, MATCHER AND MOULDER COMBINED.

THE accompanying cut represents a somewhat new machine for general planing, matching and moulding, and embodies a number of new features which by long practical experience have been found desirable in preparing inside woodwork for practical use.

It is a well known fact that in most planing machines the running of the belt over the pulley causes a jar upon the cylinder at every joint of the belt, making a perceptible mark across the lumber. The "Ross" attachment used in connection with this machine completely obviates this difficulty, as the cylinder is cut off from that portion of the shaft carrying the driving pulley by a coupling, with sufficient flexibility in said coupling to arrest the jar caused by any unevenness in the belt, leaving the cylinder to revolve

Machine Works, Toronto, samples of the work done on this machine, and forwarded to them by Messrs. Knight Bros., of Burks Falls, Ont. These samples consist of birch and other woods dressed for ceiling, wainscoting, siding, flooring, etc. The work is shown just as it came from the machine, and is certainly of a most excellent description. Messrs. Knight Bros., we understand, have built up a very large trade in this line of builders' supplies, and have adopted the name of the machine in describing their large output, designating it the "Eclipse" wainscoting, siding, etc.

We may mention in connection with the attachment for smooth planing, that it is the invention of Josiah Ross, of Buffalo, who has patents in the United States and Canada upon this device, and who receives from the manufacturers for Canada, The A. R. Williams Machinery Co., Ltd, a royalty on every machine to which it is applied. We are assured by the Canadian man-



"ECLIPSE" PLANER, MATCHER AND MOULDER COMBINED.

without the slightest vibration, thus ensuring the desired result of perfectly smooth planing.

The cylinder of this machine is also slotted to permit the use of beading, moulding and shaping bits of various patterns, and in the same connection, both front and rear pressure bars are adjustable to and from the cylinder to allow the projecting knives to revolve.

The rollers, both top and bottom, are power driven, thus ensuring a powerful feed. At the same time, the bed is the solid bed which is found necessary to secure perfect planing. The pressure bars and rollers are so arranged that very short material can be passed through and planed perfectly without in any way gouging at the ends of the stick.

The writer was shown at the office of The A. R. Williams Machinery Co., Ltd, at the Soho

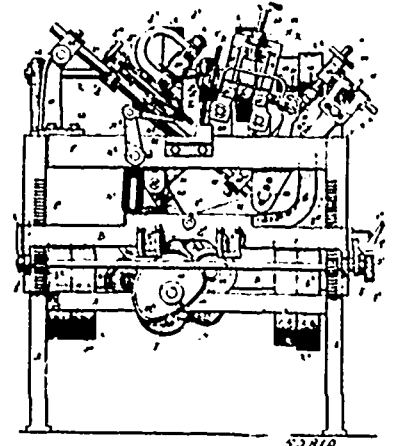
manufacturers of this machine that this device has been pronounced a decided improvement upon planing machines by all who have tested it practically.

We understand the manufacturers are meeting with very large sales of this machine, and when we consider the variety of work the machine is capable of performing, we do not wonder at their success.

The A. R. Williams Machinery Co. have completely outgrown their present quarters, and are erecting a warehouse that will not only provide suitable accommodation for their growing business, but will be an ornament to that portion of the city in which it is located, being directly opposite the west wing of the Queen's Hotel on Front street, and consisting of a building with 70 feet frontage and 150 feet depth, five stories high. This building is nearing completion and will shortly be ready for occupation, when the offices of the company will be transferred to the Front Street premises.

### NEW WOODWORKING PATENTS.

The following patents have recently been granted for Canada:



ROTARY CYLINDER PLANER.

Patentee: Myron R. Hubbell and Wm. W. Cate, both of Wolcott, Vermont, U. S. A., patented 11th December, 1895; 6 years.

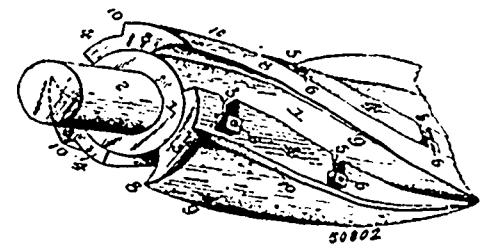
Claim. The combination of the cylindrical body forming a true cylinder, and the spiral knives of sufficient thickness and so underground at their front edges as to provide clearance for the chips, having their inner faces curved to fit the surface of said cylinder, and removably secured thereon, and decreasing in thickness from their front to their rear edges. In a rotary cylinder planer, a blade formed with the inner face extending in an unbroken line to the front cutting edge of the blade, the curved outer face, and the outer edge running at an angle from the main outer face to the front cutting edge, substantially as set forth.

### SAW SHARPENING MACHINE.

Patentee: S. H. Hawley and S. V. Rawlings, both of Marquette, Mich., U.S.A., patented 11th December, 1895; 6 years.

Claim. - In a saw grinding machine, the combination with suitable mechanism for advancing and holding the saw to the ground, of a throat grinding wheel and an independent wheel for grinding the backs of the saw teeth, and mechanism for operating the same and for sustaining said wheels

in close proximity, and means whereby said wheels are caused to conjointly act upon the same tooth between the movements of the saw necessary to bring successive teeth in



SAW SHARPENING MACHINE.

position to be ground. In a saw grinding machine, with mechanism for shifting grinding-wheel back and forth, comprising a pivoted and adjustable lever, and a cam for operating said lever, and with a vertical or adjustable frame or gate for sustaining said wheel.