knife, on a head or the perfect slope, it will show you where the knife requires grinding, and will guide you otherwise. To stick a detail moulding on top or all four heads is, by the use of this rule, very simple. Simply square up the pattern and find out the amount of wood to be cut away; or transfer the shape of the moulding or a rule, apply rule on head, set knives, and the machine is ready to start up.

This is the quickest and most accurate method of setting up a sticking machine; it does away with all old makeshifts. By the application of this method a mechanic will set up a machine while a man using the old method may be looking for patterns; and the rule is used on all four heads of any machine, large or small.

VARIABLE SELF-FEEDING RIP-SAW.

The illustration represents a No. 316 Special Variable Self-Feed Ripping Saw, with feeding gear and delivery roll, built by the Clark-Demill Company, Limited, Hespeler, Ont. It is specially designed to meet the requirements of furniture, organ, piano, buggy and chair factories, planing mills, and any place where there is a lot of ripping to be done, and will save its cost over an inferior machine in a short time.

This machine is built with a bearing outside of the drive pulley on the saw spindle.

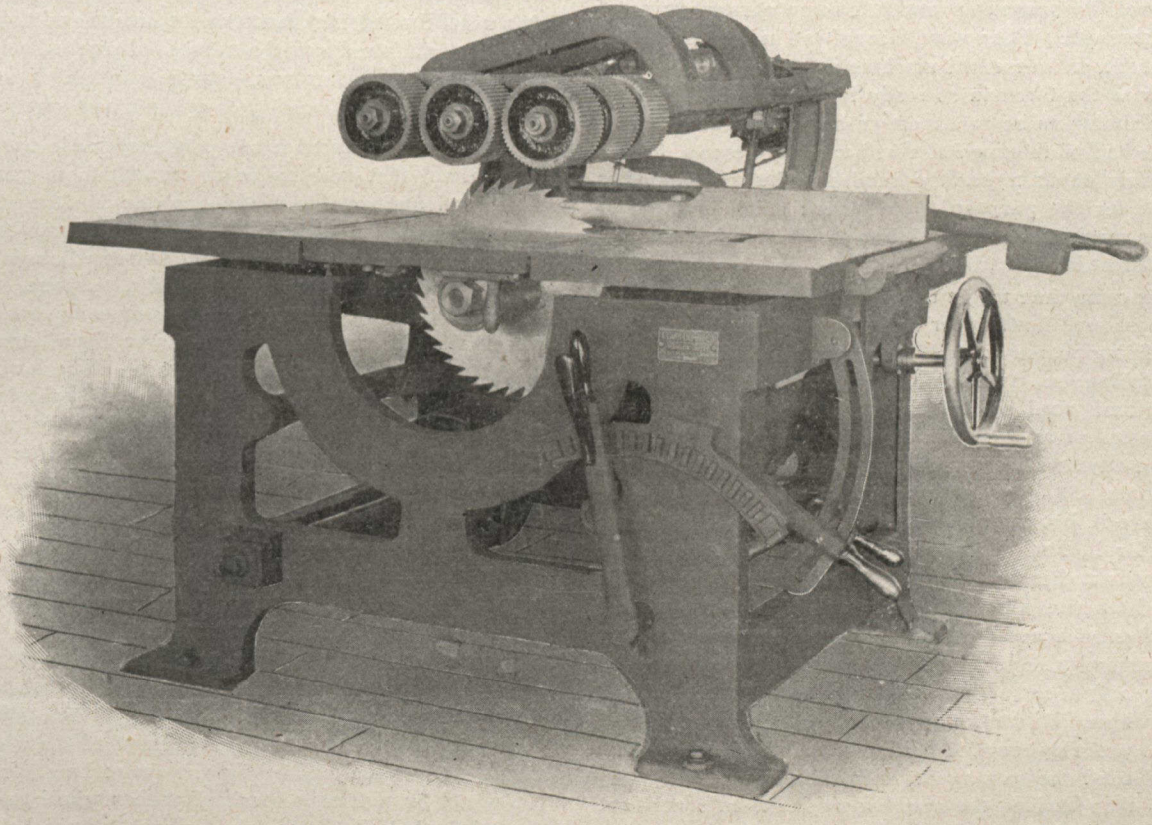
The frame is of substantial construction, with ample length and width to form a rigid support for the table and working parts.

The table is made of iron, planed true, and is well braced on under side, both length and cross ways, and has four anti-friction rollers, two before and two after the saw, for carrying the lumber. Size of table is 5 ft. long and 3 ft. 4 in. wide.

The saw spindle is very heavy, running in self-oiling bearings, namely, 1 15-16 in. x 8 in. Where saws go on the spindle is turned down to 1½ in. It is also provided with multiple collars, permitting a number of saws to be placed at any desired distance from each other. Will rip 18 in. wide with the first saw and 2⅜ in. wide with last saw, and is adjustable by sixteenths. Saws up to 16 in. in diameter can be used; cutting material as short as 6 in.

The variable feed can be instantly changed by the operator from nothing to 200 feet per minute, simply by moving the lever on side of machine and regulating the feed just as desired, so that the cut of the saw can work up to its full capacity, either on the thinnest or the thickest material, on hard or soft wood, without stopping the saw or even the feed of the lumber being sawed, and has feed shaft with toothed steel disc for feeding and plain delivery roller with splitter for discharging material. Feed is driven with chain and sprocket. It can also be lifted out of the way and saw used as hand rip. The device for raising and lowering the heavy iron table, as well as the device for moving and locking the fence are pronounced by mill men to be simply perfect.

The main table has a sliding section which can be instantly withdrawn to allow for use of more than one saw. No screwing of the table up and down, but by one movement of the handles shown, the table or the self-feeding attachment can be raised or lowered to their full capacity.



Special Self-feed Rip Saw for very short material.

AN ENQUIRY FROM ENGLAND.

A large firm in Liverpool, England, who regularly import ash and hickory handles, maple flooring, dowels, office furniture, turned wood, joinery and three-ply wood, write to the "Canadian Woodworker," informing it that they would like to be put into communication with any shippers of these goods in Canada.