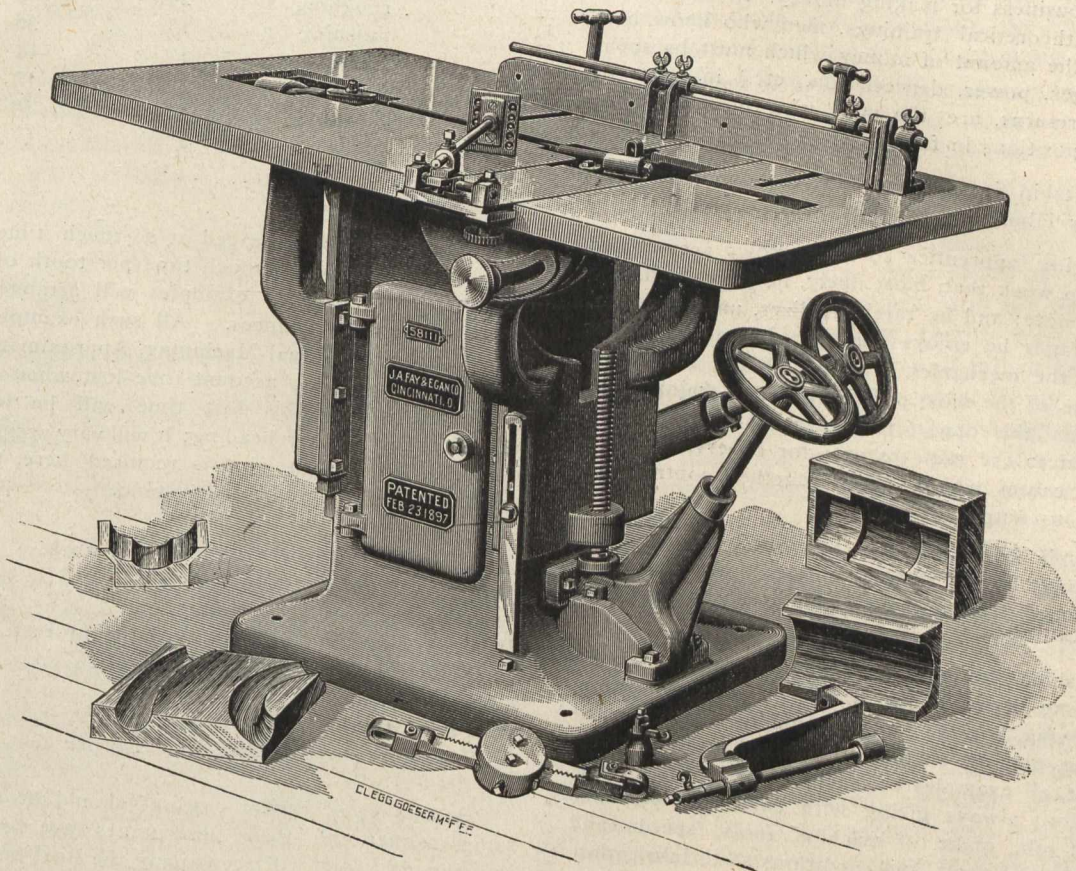


## A NEW CORE BOX MACHINE.

The wood-working machine illustrated below is an entirely new and improved machine for making core boxes, and for work that requires recessing, duplicating, etc. It was patented February 27th, 1897, and the makers are J. A. Fay & Egan Company, Cincinnati, Ohio.

with great rapidity. For making large fillets on engine and pump frames, and other patterns of that character, it is unsurpassed, and is a great improvement over the old methods of working the curve.

It is not necessary to use clear lumber when making the cuts, for owing to the construction of the cutters, knotty



The machine will cut semi-circular core boxes of any length, and from  $\frac{3}{4}$  to 20 inches in diameter. Semi-circular core boxes closed at the ends, with recesses of different diameters, can be made rapidly, and with corners of any desired shape.

On patterns with internal curves, such as the inside of staves, coves, and cutting out the under side of bosses to fit on rounded patterns, the work is done accurately and

lumber, cutting with or across the grain, a smooth surface is produced.

A radius attachment is furnished with the machine by the use of which circular core boxes are correctly produced, such as elbows, etc. The heads used may be set for different diameters, being so made that the bits are adjustable; by which arrangement fewer heads need be used to accomplish a wide range of work.

### BOOKS RECEIVED.

The following books will be reviewed in our October issue:—

American Tool-making and Interchangeable Manufacturing.—By Joseph V. Woodworth. New York: The Norman W. Henley Publishing Co. Size,  $9\frac{1}{4} \times 6\frac{1}{4}$  inches. (Price, \$4.)

Lives of the Engineers: Bolton and Watt.—By Dr. Samuel Smiles. London: John Murray. (Price, 3s. 6d. net.)

The Honorable Peter White: A recital of the discovery and development of the Lake Superior iron country.—By Ralph D. Williams, editor of the Marine Review. Cleveland: The Penton Publishing Co. Size,  $9\frac{1}{4} \times 7\frac{1}{4}$  inches. (Price, \$1.50 net, postage 15 cents.)

The Metallographist, now The Iron and Steel Magazine.—Vols. V., VI., VII., VIII., and IX. Edited by Albert Sauveur. Boston, U.S.A.: The Poston Testing Laboratories. Size,  $9\frac{1}{4} \times 6\frac{1}{4}$  inches. (\$3.50 each.)

Electricians' Handy Book: A Compendium of Useful Data, Covering the Field of Electrical Engineering.—By T. O'Connor Sloane, A.M., E.M., Ph.D. New York: The Norman W. Henley Publishing Co. Size,  $4\frac{3}{4} \times 6\frac{1}{2}$  inches. (Price, \$3.50.)

Mechanics for Engineers: A Text-book of Intermediate Standard.—By Arthur Morley, M.Sc., University Scholar (Vict.). London, New York, and Bombay: Longmans, Green & Co. Size,  $7\frac{1}{2} \times 5\frac{1}{4}$ . (Price, 4s. net.)

Modern Engines and Power Generators: A Practical Work on Prime Movers and the Transmission of Power—Steam, Electric, Water, and Hot Air.—By Rankin Kennedy, C.E. Vols. I., II., III., IV., V. (1904). Toronto: The George M. Morang Co., Limited, publishers. (Price, \$15 per set.)

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The Hamilton Tool & Optical Co., of Hamilton, has perfected plans, we are informed, by which they will place upon the market a line of small tools such as milling cutters, reamers, twist drills, etc., which possess a number of new features.

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As a lubricant for wire rope Dixon's Hand Graphite Rope Dressing is the ideal. This dressing is put up in packages about the size and shape of an ordinary book, which contain about three pounds of graphite lubricant. The application is made by holding the open edge of the package to the cable, while in motion. Manufactured by the Joseph Dixon Crucible Co., Jersey City, N.J.