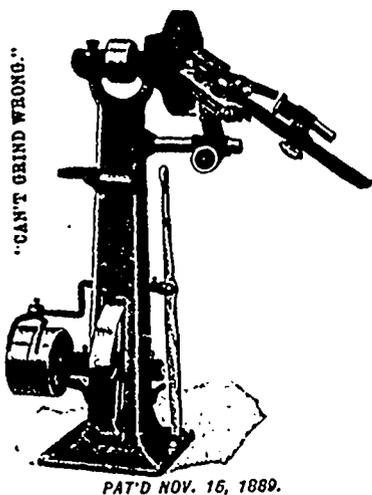


### THE YANKEE DRILL GRINDER.

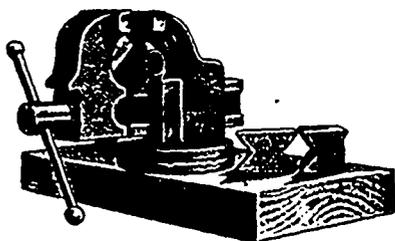
"Can't Grind Wrong." This suggestive heading has been used by the manufacturers of the Yankee Drill Grinder, with great success. As everyone knows that a twist drill badly ground will not bore true, nor will it bore a hole the exact size



of drill, it goes without saying that a grinder which does grind right is a great addition to any machine shop. The illustration printed herewith gives a good idea of the style of the machine. The Fairbanks Co. of Montreal is sales agent for Canada of this machine.

### HOUGH'S EXTRA HEAVY COMBINATION PIPE VISE.

This combination vise is of inestimable value to engineers in mills, mining plants, steamboats, or to plumbers requiring a heavy vise. The makers claim that the castings used are of the highest grade, careful selection and the proper and intelligent mixing of the component materials, all tending to great strength. The workmanship is of the very best. The steel jaws firmly welded and finely tempered; the whole vise scientifically proportioned for strength and durability as well as convenience in use, and have no parts to get out of order. The particular vise illustrated is also fitted with reversible pipe jaws, giving prac-



tically two sets of jaws, as they can be turned end-for end. Width of filing or plain jaws 4 inches; weight, 63 lbs. Swivel base, allowing the operator to work in any position, holds pipe from  $\frac{1}{8}$  to 2 inches, the larger vise holding  $\frac{1}{4}$  to 3 inches. They also make a stationary base vise; capacity  $\frac{1}{2}$  to 4 inches.

The Hollands Manufacturing Co., of Erie, Pa., is not only vise manufacturer, but in their complete catalogue show planer chucks ranging from 6 inches to 30 inches capacity, "Acme" pipe tongs, Trimco & Stillson wrenches, roller and three-wheel pipe cutters, cutter wheels, pipe stocks and dies, also ratchet screw cutting stocks.

### RAILWAY ENGINEERING.

Biggar, Samuel & Co.,

Gentlemen:—I received the copy of "Railway Engineering," by Prof. Smith, and while I was very pleased with the articles as they appeared in the "Canadian Engineer," I am more pleased with them in book form. I have read the book with interest, and often find it useful for reference, although I am not engaged in railroad work now. Wishing you success, I remain, yours truly,

F. W. SALMON.

Burlington, Iowa, August 6th.

## Industrial Notes.

E. F. Munroe is building the new town hall in Windsor, N.S., at \$8,286.

Macdonald Manufacturing Co., Stratford, Ont., is about to greatly enlarge its premises.

Jos. Orr, Stratford, Ont., furniture manufacturer, is installing a new Leonard engine.

J. S. Hogg is now manufacturing peat on the patented compression system near Galt, Ont.

Workman & Ward, London, Ont., iron foundry and agricultural implement builders, are about to build new buildings.

Crescent Mill and Timber Co., London, Ont., is now completing its new factory, which is almost ready for the machinery.

W. W. Ogilvie will establish a 25,000 barrel mill and an elevator of 500,000 bushels capacity at Fort William, Ont., shortly.

R. S. Porteous, Stratford, Ont., is starting up a furniture factory for export trade in buildings formerly occupied by John Becker.

W. Partlo & Son are equipping the King mill at Ingersoll, Ont., as an oatmeal mill, and will put in new machinery, including steam plant.

The Toronto Cold Storage Co., Ltd., now has its plant in operation. The capacity is 80 tons per 24 hours, and is operated by a 150 h.p. engine.

J. W. and J. B. McManus, Memramcook, N.B., have a contract for Provincial Government on Tobique Narrows bridge substructure, and two highway roads.

Willis Chipman, who was the engineer for the Petrolia waterworks system, now has a similar position for the town of St. Mary's, where a \$150,000 system is being put in.

J. W. Walters has started a machine and blacksmith shop in Dawson City, Yukon, and is going to turn out engines, boilers and mining machinery. During a recent visit to Montreal he bought supplies amounting to \$30,000.

The shareholders of the Hamilton Steel & Iron Company have elected the following officers and directors: A. T. Wood, M.P., president; C. E. Doolittle, vice-president; A. E. Carpenter, C. S. Wilcox, John Milne, A. M. Wilcox and Wm. Southam. Robert Hobson is secretary.

The Massey-Harris Company is completing plans for the erection of a fine club house and library for the use of their employees on the north side of King street, opposite their premises in Toronto. The building, which will probably cost from \$50,000 to \$75,000, will include baths, reading room, library and social rooms, with a fine hall for public recitals.

Daniel and Ira Jacobs of Winona, Ont., narrowly escaped death, near Basingstoke, Ont., by the explosion of a traction boiler. The water tank became detached from the engine, and the Jacobs stepped down on the road to connect them. A few seconds later the boiler exploded, and scattered sections of the engine over the countryside; but, rather strangely, the Jacobs were not hurt in the slightest.

The Carter-Crume Company, check book manufacturers, Niagara Falls, N.Y., has been reorganized with a capital stock of \$2,000,000. The new directors are: W. Caryl Ely of Buffalo, president of the International Traction Company; J. L. Morrison, S. J. Moore, W. E. H. Massey, president of the Massey-Harris Company of Toronto; J. W. Flavell, president of the National Trust Company of Toronto, and Robert Kilgour, Toronto. S. J. Moore will be general manager.

The Fairbanks Company of Montreal has just furnished the Ontario Rolling Mills Co., of Hamilton, with an improved furnace charging scales of the suspension pattern. In this scale all the levers supporting the load are over head, thus leaving all the working parts free for inspection, and making them all the more durable. The scale has six beams to indicate the various required amounts of different material necessary for the proper composition of the product of the furnace. The scale is built of steel and iron throughout.