

MACHINE SHOP NOTES FROM THE STATES.

BY CHARLES S. GINGRICH, M.E.

XIX.

A large amount of work done in every machine shop must necessarily, from the very nature of things, consist of finishing flat surfaces. It is the law of many shops, that this sort of thing must be done on the shaper or planer, because that's the sort of work these machines are for. Besides, "it always was done that way."

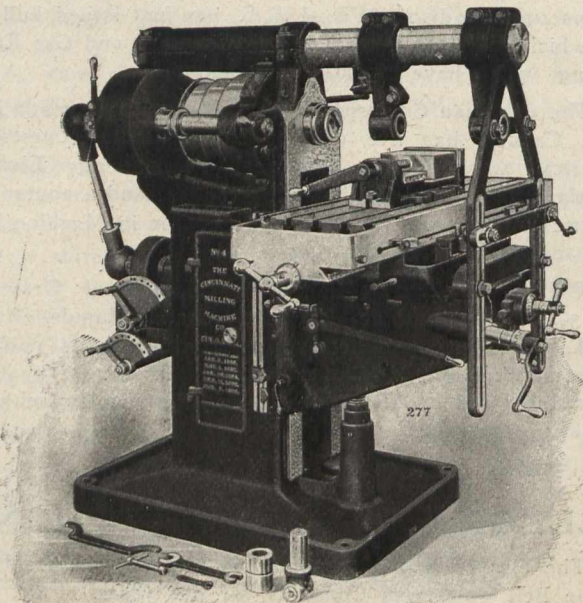


Fig. 1.—No. A. Plain Cincinnati Miller, with Double Back Gears and New Knee.

Now, one object of these articles is to show the poor economy of these old time methods. In most modern shops the tendency is to take more and more the work from the

planer and put in on the miller. One of the machines that have won the widest popularity and have been chiefly instrumental in broadening the scope of milling, is shown herewith in Fig. 1. This type of machine has the broadest application and is in most general use. Fig. 2 shows it in operation on a job that would be exceedingly awkward on any other tool. The cutter is 12" diameter, taking a cut $\frac{1}{8}$ " deep across the entire surface of a grey iron casting 9" wide at nearly 5" per minute table travel. The piece is 18" long, and the cut takes just about $6\frac{1}{2}$ minutes. The chucking takes

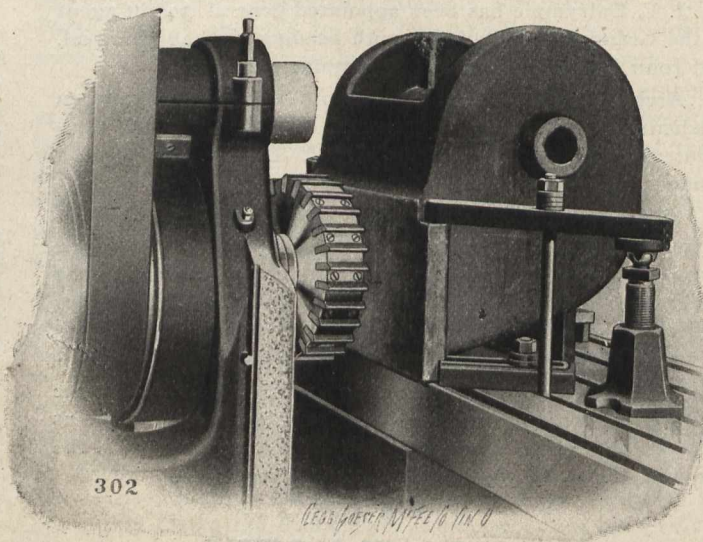


Fig. 2.

about as long as on a shaper or planer, but the saving is in the actual cutting time and is represented by the difference between $6\frac{1}{2}$ minutes and the time a planer would take to do it.

CANADIAN ASSOCIATION STATIONARY ENGINEERS.

SIXTEENTH ANNUAL CONVENTION.

The members of the Canadian Association of Stationary Engineers held their annual Convention in the municipal council chamber of the city of Chatham, Ont., on August 22nd and 23rd. The thriving Maple City, located on the banks of the River Thames, is ambitious to be known throughout the Province as the "City Beautiful"; and if its eight miles of wide, well-paved business streets and fine tree-shaded residence avenues, picturesque Tecumseh Park—famous as the spot where the renowned Indian chieftain made his last stand—general air of orderliness and cleanliness, and true colonial hospitality entitle its inhabitants to use the æsthetic predicate of "beautiful" in describing their prosperous industrial city, then assuredly, their claim is valid; for before the end of their conclave, every member of the C.A.S.E. was evidently ready to declare upon affidavit that historic Chatham is an ideal Convention city.

The local Reception Committee, composed of Messrs. Hayes, Congdon and Jamieson, cordially received the delegates and visitors at the railroad station and at the headquarters in the Garner House, and extended a hearty greeting to their city; while the Entertainment Committee, viz., Messrs. Grandbois, Kelley and Head, announced the various social events, and succeeded admirably in making the automobile ride around the city, the steamboat ride down the river, the city fire department demonstration and the banquet, pleasures long to be remembered.

Owing to the nearness of the National Exhibition at Toronto, and difficulty in making convenient railroad con-

nections, the attendance of delegates was not as large as the previous year; but if the earnestness, general knowledge of the stationary engineer's craft, and first-rate debating power of those present was representative of the general fraternity, then it is manifestly an organization of which any first-class mechanic might be proud.

The session was formally opened by President F. J. Sculthorpe, of Hamilton, at 10.30 a.m., and the following is a list of the Executive officers:

W. A. Sweet, of Hamilton, Vice-President; W. Inglis, of Toronto, Secretary; J. M. Dixon, of Toronto, Treasurer; W. Outhwaite, of Toronto, Conductor; E. Grandbois, Chatham, Door Keeper.

Below is a list of entitled delegates and past presidents, taken from "The Chatham Daily News":

Hamilton.—Messrs. F. J. Sculthorpe, W. A. Sweet, W. A. Crockett, J. Ironsides, R. C. Pettigrew.
 Toronto.—Messrs. W. Inglis, W. L. Outhwaite, C. Moseley, J. Hughes, W. McGhie, F. J. Stubbs, J. M. Dixon, A. M. Wickens.
 Chatham.—Messrs. Grandbois and Kelly.
 Dresden.—W. R. Steeper.
 Berlin.—W. R. Oelschlager.
 Brantford.—Jos. Ogle.
 Brockville.—W. F. Chapman.
 Waterloo.—M. Beam.
 St. John, N.B.—E. W. Graham.
 Vancouver.—G. W. Flower.

At the various morning, afternoon and evening sessions numerous visitors were present.

In the absence of Mayor Cowan, the official greeting of the municipality was relegated to Charles Kelley, of Chatham.