

New Bench Miller

We are presenting here an illustration of a new bench milling machine, recently put on the market by the Burke Machinery Company, 15 Power street, Cleveland, Ohio.

This miller has a wide range of operation and is adapted to a great variety, as well as the finest work.

The spindle is made of tool steel and has adjustable bearings. All bearings

are of phosphor bronze, self oiling and dustproof. The feed tube is conveniently located and must be kept full of the blanks to be embossed, so that the feeder fingers can carry them to their place under the embossing punch. The pressure adjustments as well as the dies and punches are of easy access.

The machines are built in two sizes, No. 2 and No. 4. The No. 2 is used for coining cents, nickels, dimes and quarters at a speed of about 100 per

minute. The No. 4 press is used for coining half dollars and dollars at the rate of 80 per minute. There is no stop motion in the flywheel of these machines and they are run continuously at the speed mentioned, feeding and embossing both sides of a coin at every revolution. A stop motion can easily be attached if

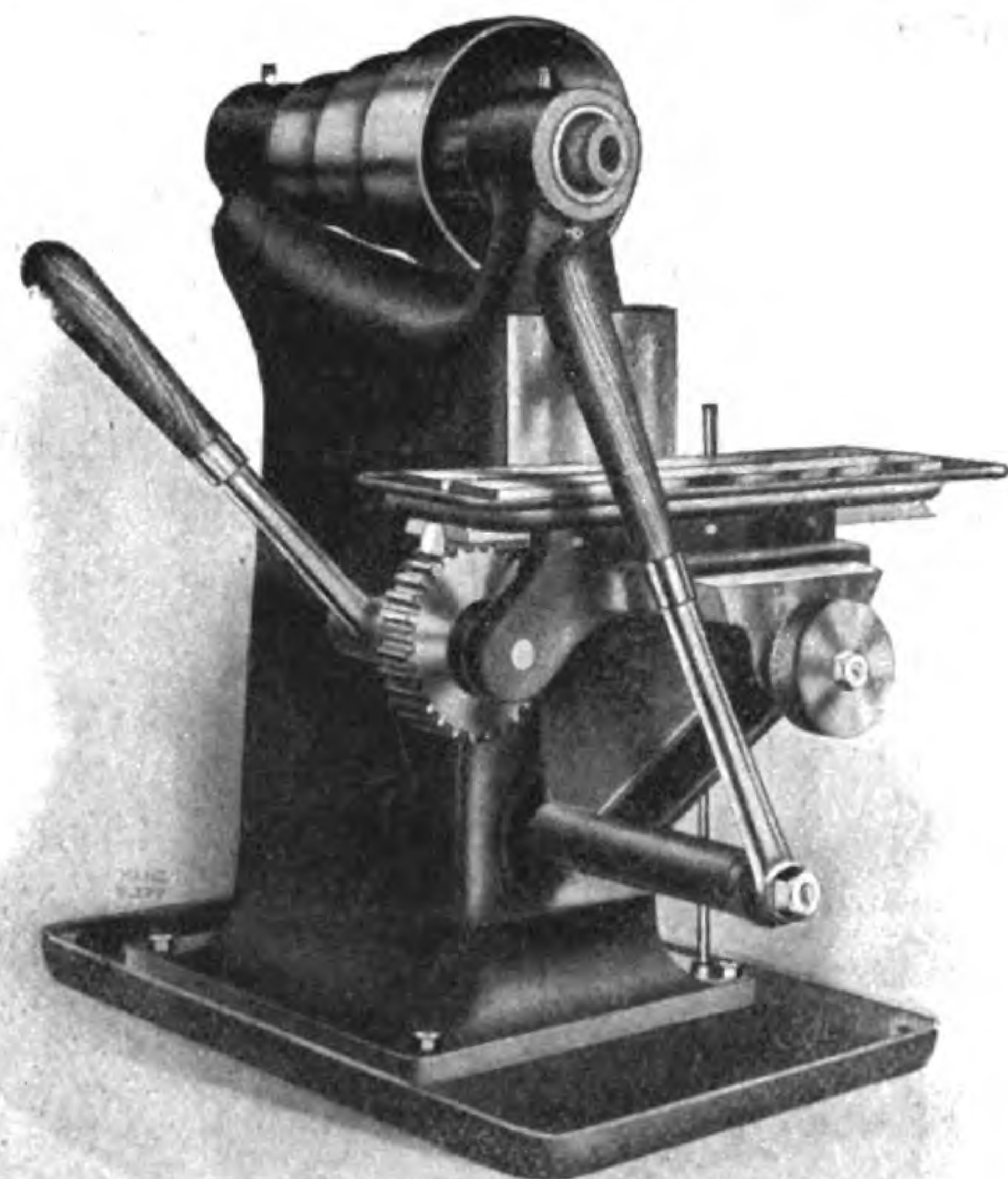
necessary, but as ordinarily made a foot brake is applied to the balance wheel. The machine is arranged to be either driven by belt power or electric motor if desired.

These presses are built by the E. W. Bliss Company, Brooklyn, N. Y.

Scale Remover

Elmer P. Alexander, of Yeagertown, Pa., has assigned to James H. Mann, of Lewistown, Pa., the entire interest in a patent recently granted to him on a machine for removing scales from axes.

The object of the invention is to provide a machine by means of which the scale formed on axes and other tools of steel or iron in the process of manufacture may be easily and quickly removed, prior to finishing them for market. In the manufacture of such articles, it is customary to remove the scale of oxid formed thereon in process of manufacture by means of grinding or by the use of steel brushes wielded by hand. Neither of these modes of procedure is entirely satisfactory, because the former is difficult to perform evenly and quickly, and the latter is slow and laborious. By means of the present invention, the scale is removed almost instantly in a uniform manner and without the employment of skilled labor. The machine comprises a pair of rigid standards on which a shaft carrying a brush is journaled. A swinging frame is employed which also carries a brush to coact with the first-named brush. Means are provided for causing the brushes to normally approach each other. Disposed beneath the brushes is a work-support which is rigid with the standards and has means to limit the movement of the swinging brush-supporting frame.



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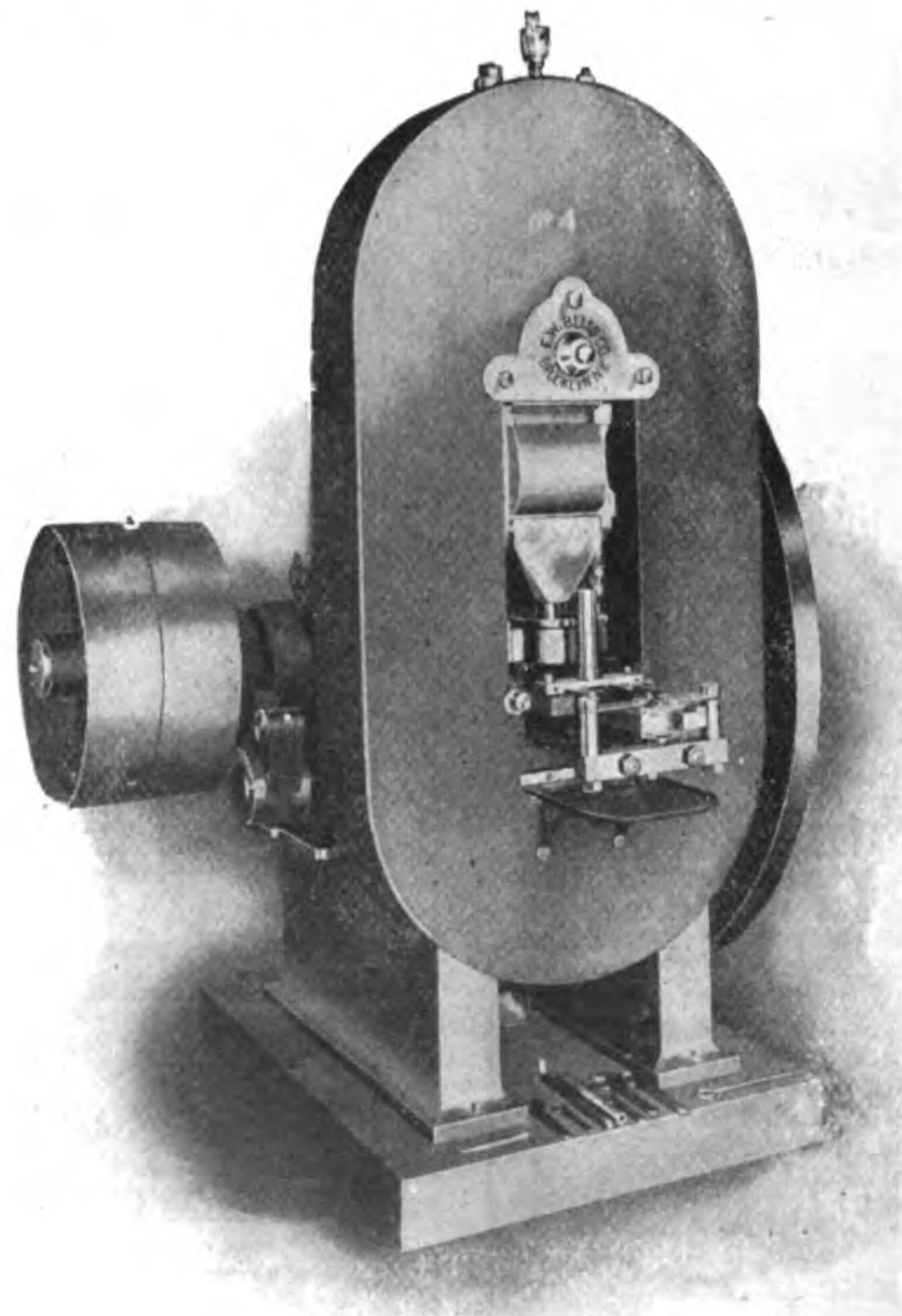
The table has longitudinal feed of $5\frac{1}{2}$ inches, traverse feed of $2\frac{1}{2}$ inches—vertical knee motion 5 inches, maximum distance between center of spindle and table 7 inches, working surface of table, $3\frac{1}{2} \times 12$ inches, largest diameter of cone 6 inches, smallest $3\frac{1}{2}$ inches, taper hole in spindle B. & S. No. 7, hole in spindle $\frac{1}{2}$ inch, vise jaws $3\frac{1}{2} \times 1\frac{1}{8}$ inches. The machine is very compact, measuring over all 22 inches, and weighing complete 300 pounds.

We understand that this machine is also made with power feed, and that index centers can be furnished with either style.

Bliss Coining Presses

The general style of coining press as illustrated in accompanying halftone was first adopted by the United States mint some years ago, and since then has been improved and perfected, so that as now built it is universally regarded as the standard coining press of the world. The frame is a solid casting, very strong and well designed for the work it has to do. The toggle joint parts are made of tool steel hardened and ground and are well adapted to stand the severe strain put upon them in the regular coining operations.

The feeding mechanism is very accurate, easily adjusted and does not get



Bliss Coining Press