

W. H. Oakes
Die-Sinking Press.

N^o 41,088.

Patented Jan. 5, 1864.

Fig. 1

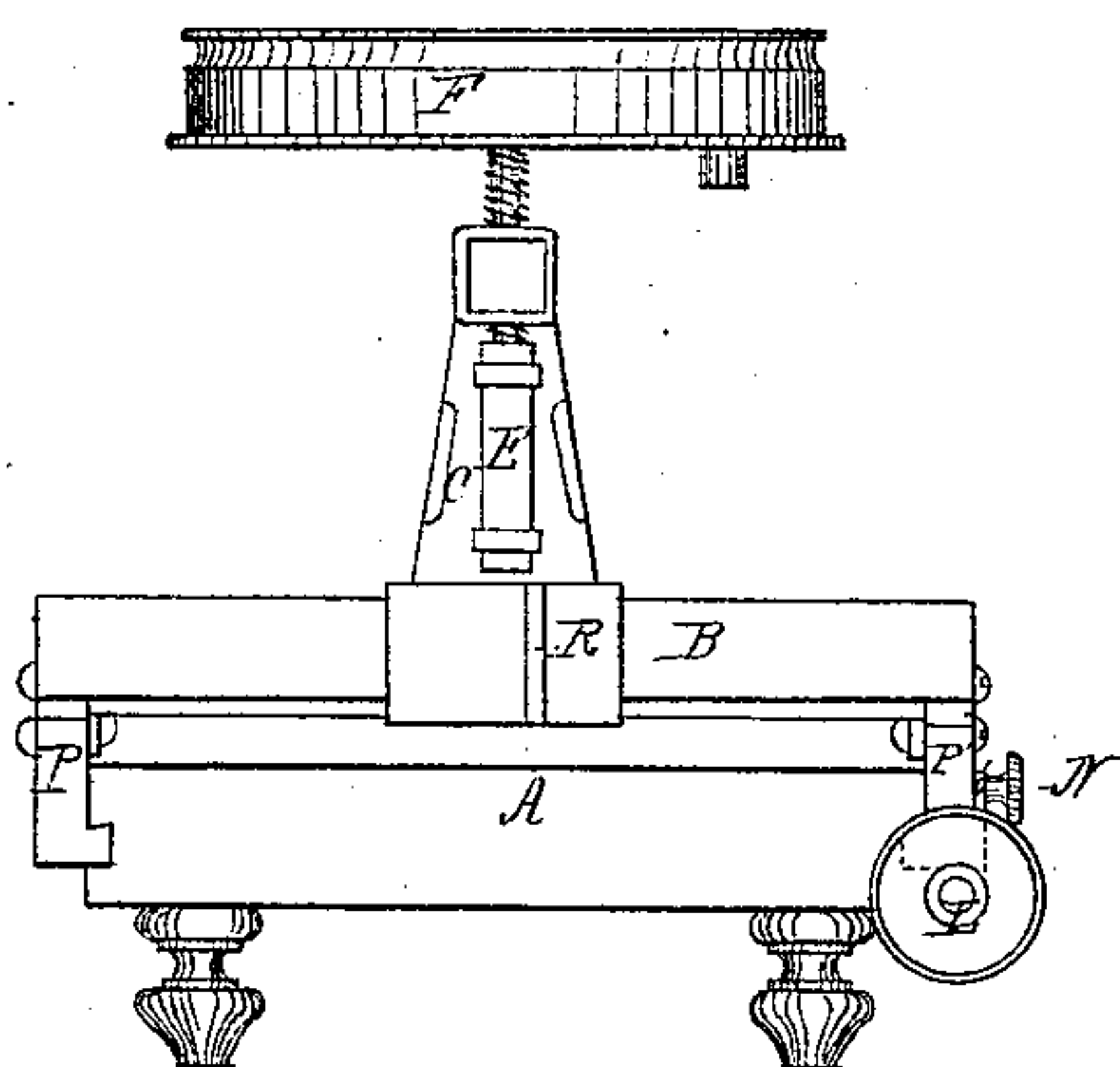


Fig. 2

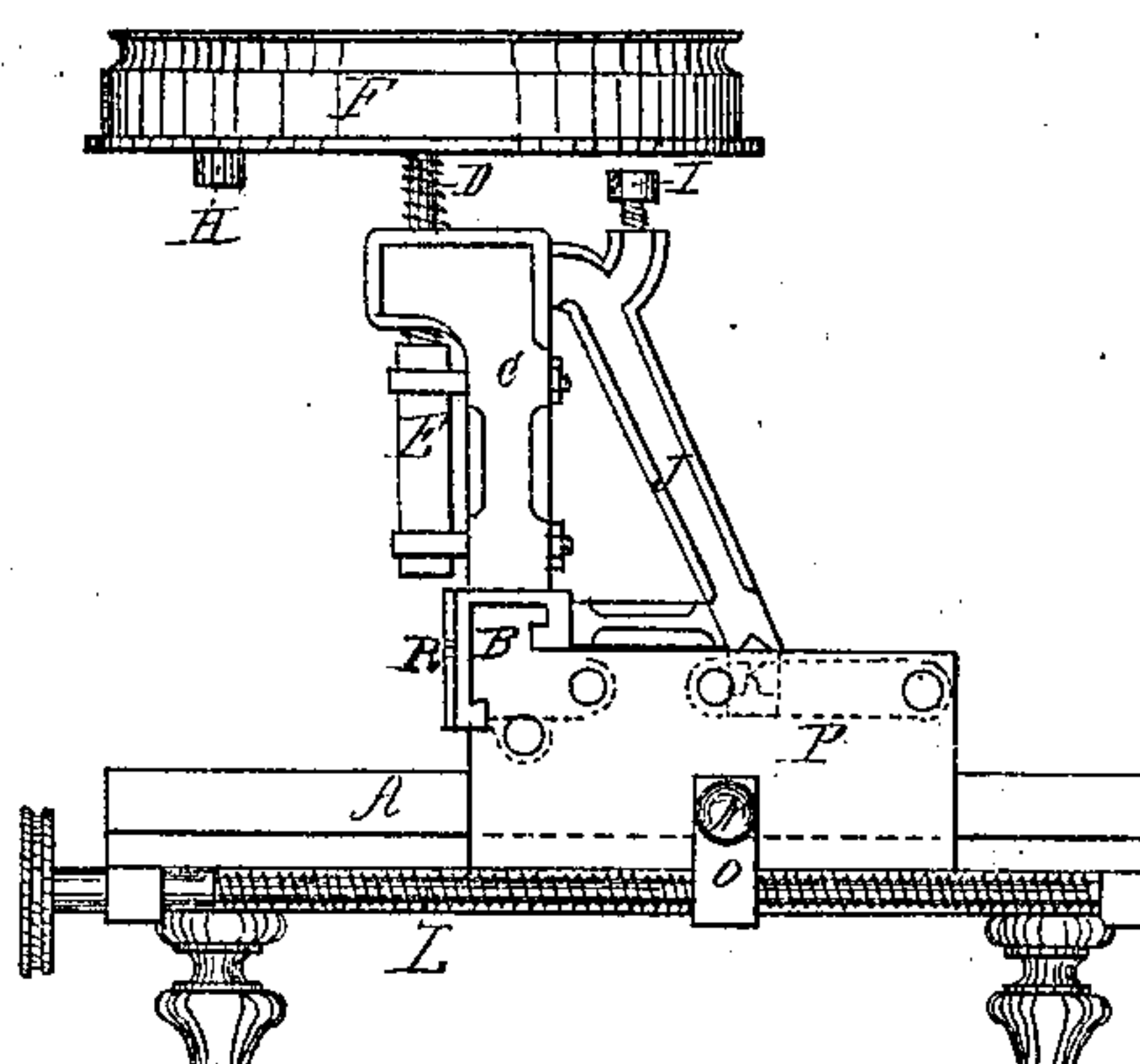


Fig. 3

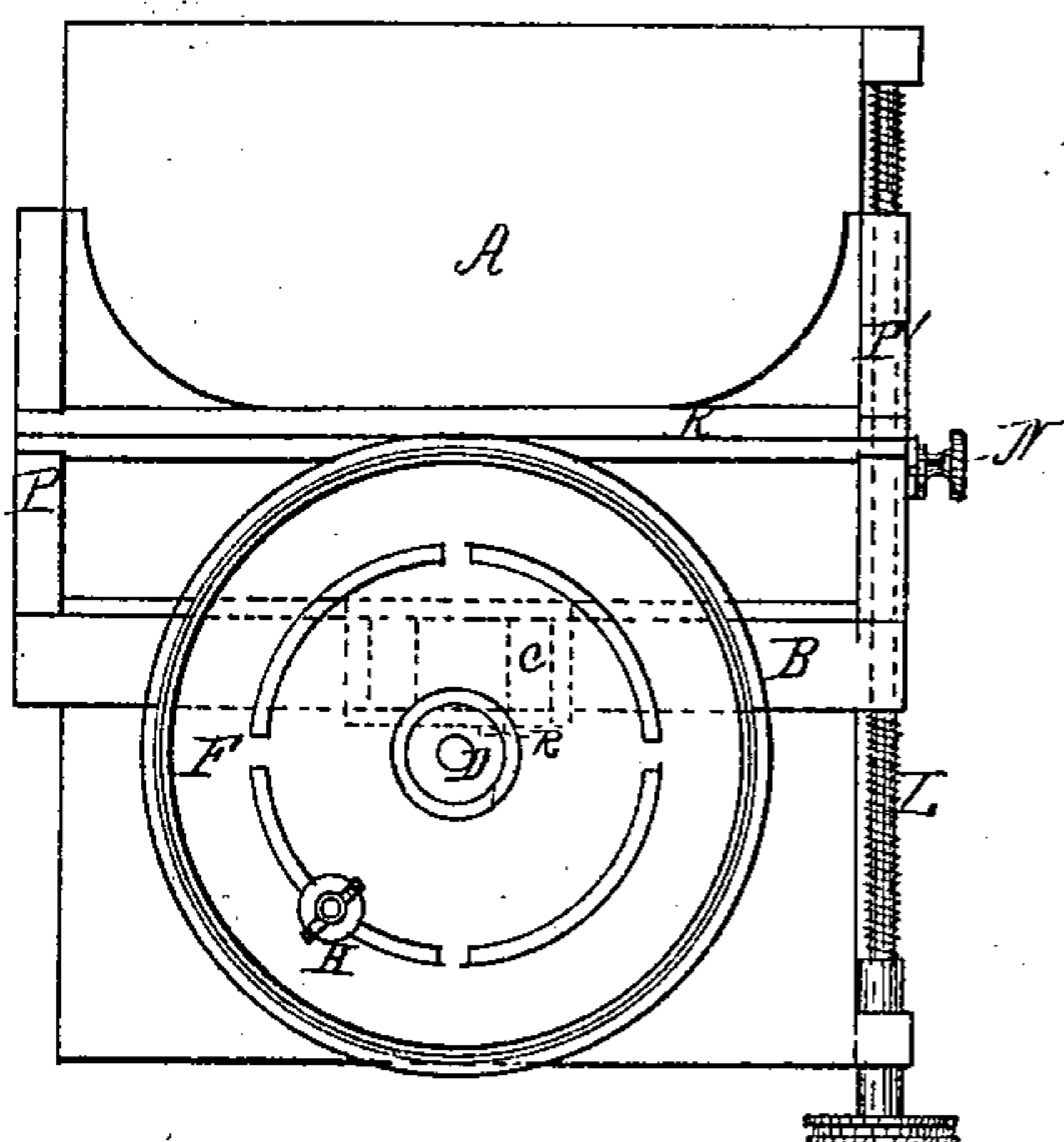
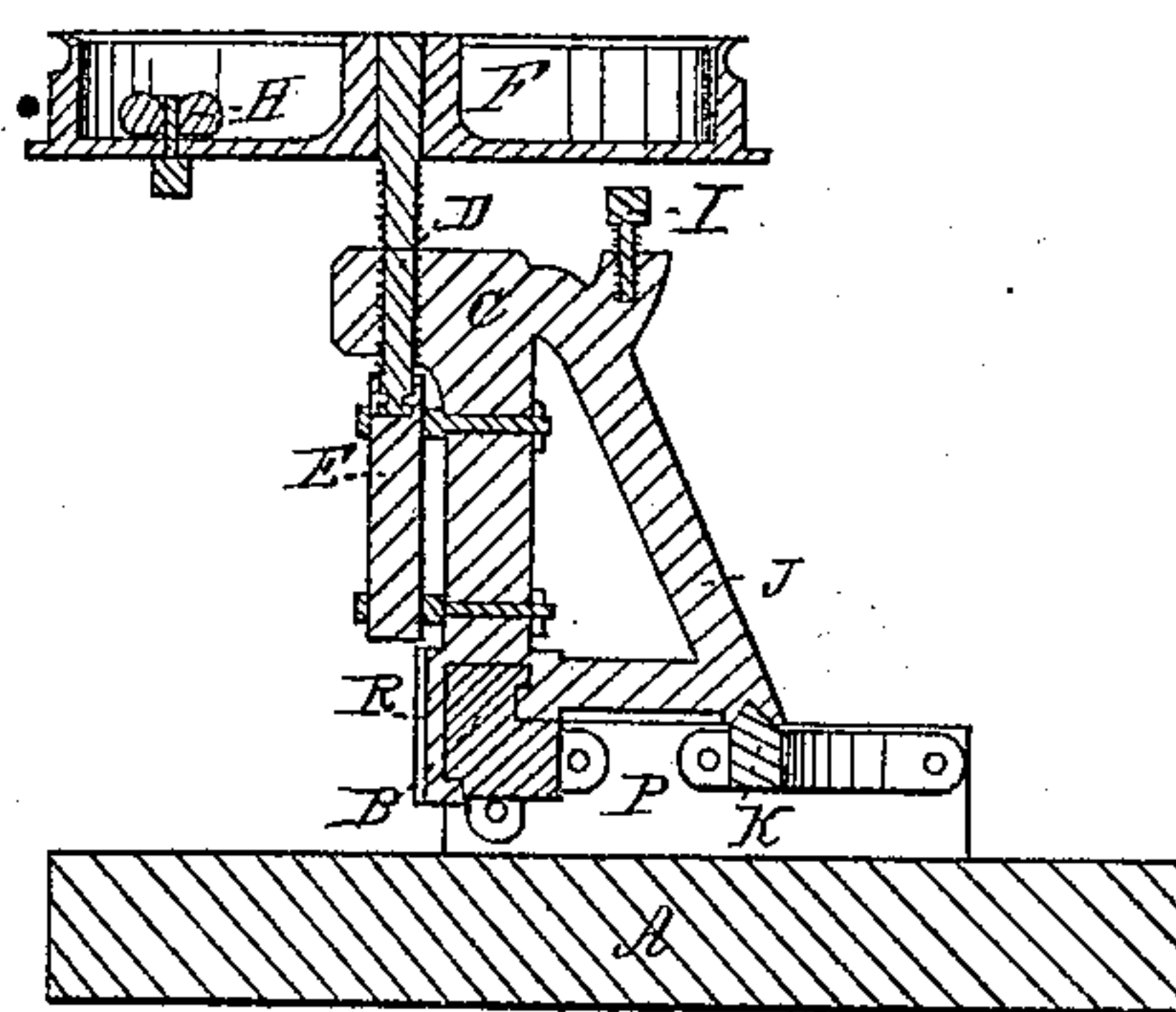


Fig. 4



Witnesses
Chas Morrill
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UNITED STATES PATENT OFFICE.

W. H. OAKES, OF NEW YORK, N. Y.

DIE-SINKING PRESS FOR OBTAINING RELIEF-PLATES FOR SURFACE-PRINTING.

Specification forming part of Letters Patent No. 41,088, dated January 5, 1864.

To all whom it may concern:

Be it known that I, W. H. OAKES, of the city, county, and State of New York, have invented a new and useful Die-Sinking Press for Obtaining Relief for Printing; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 is a front view of the press; Fig. 2, a side view; Fig. 3, a top view; Fig. 4, a transverse vertical section.

Similar letters of reference indicate corresponding parts in all the figures.

It will be observed that this machine consists of a table, A, upon which is placed the plate to be stamped. B is a cross-bar forming part of a slide carriage, which sustains the pressing mechanism, and is itself supported by the tongues P and P, which fit and travel in grooves on either side of the table, the motion of the whole being effected at will by means of the stationary screw-leader L, playing into a clutch, A, in Fig. 2, on the side piece, P, which may be removed from contact with the screw leader by loosening the jam-screw N, in case it is desired to move the slide-carriage more rapidly or otherwise than by the agency of the screw-leader L.

C is an upright standard-clasping, and movable at will along the cross-bar B, and further supported by an elbow or brace, J, the lower extremity of which rests upon the V-rail K, which, being fastened to the side pieces, P and P, forms a part of the carriage. The screw-shaft D of the pulley F works in and through the forward projection of the standard C, and elevates or depresses the plunger E, on the lower end of which is fastened the tool or die formed into the device which it is desired to impress upon the plate; or the tool may be held by hand against the rest or guide-piece R, so as to receive the blow of the plunger E,

which will be the more convenient mode of operating the press when there is occasion for a frequent change of tools, punches, or dies. On the under side of the pulley is a lug or stop, H, adjustable in the circular slots (shown in Fig. 3) by means of the thumb-screw H'. This stop, at a certain point in the revolution of the pulley F, strikes against the head of the set-screw I, and thus arrests the movement of the pulley. By elevating or depressing the set-screw I the pulley may be permitted to have several revolutions, or only a part of one revolution, as may be desired, it being obvious that the set-screw is inoperative until the pulley is screwed and lowered down so that the stop H in revolving strikes against the head of the set-screw I. By this means a series of impressions upon the plate may be made of precisely uniform depth, and, moreover, the depth is susceptible of the most nice and accurate regulation by means of altering the height of the set-screw, as described, so that the pulley has a greater or lesser number of turns, and the plunger a corresponding extent of depression. The pulley has an intermittent reciprocatory motion, which may be communicated to it either by the hand or by a belt, and it is so constructed that after having been screwed down to make an impression it may be brought back by means of a weight attached to a cord which is wound around the pulley.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

The screw-lever or pulley F, or its equivalent, for the purpose of depressing the punch, tool, or die, in combination with the adjustable stop H and set-screw I, whereby a uniform depth of impression is secured.

W. H. OAKES.

Witnesses:

CHAS. MORRILL,
PETER COOKE.