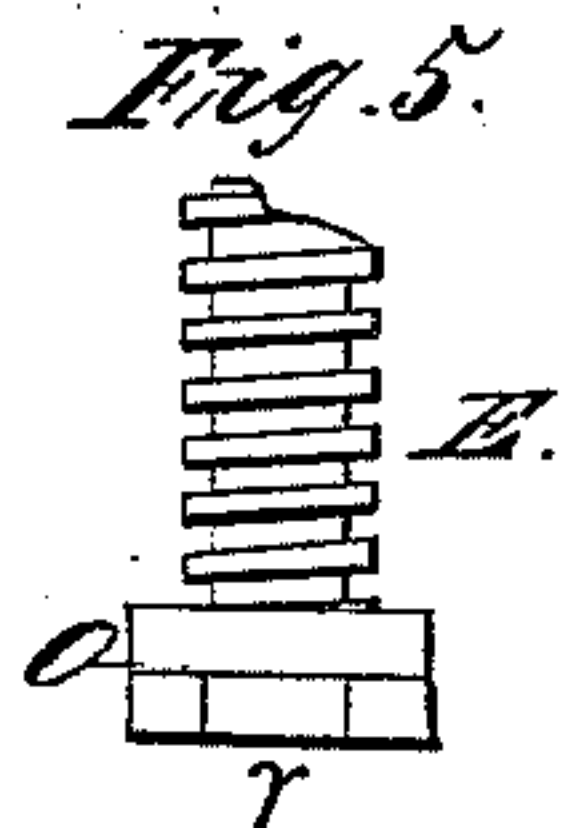
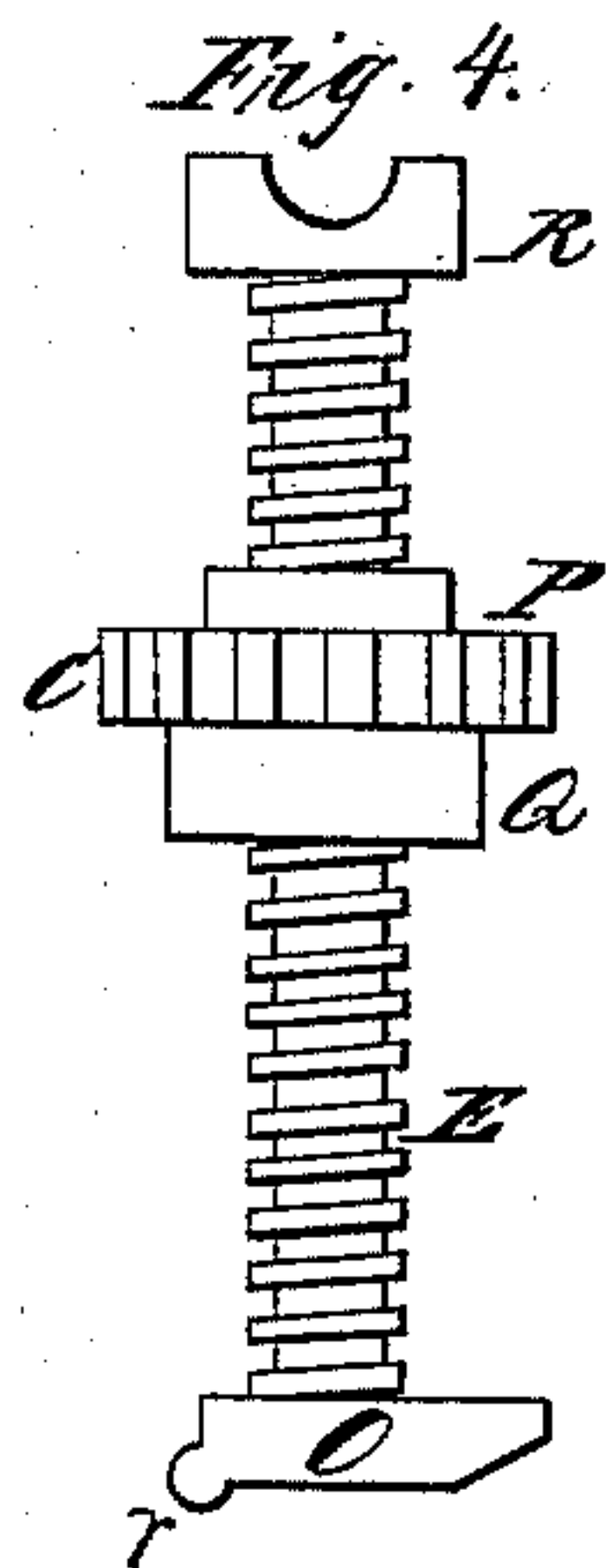
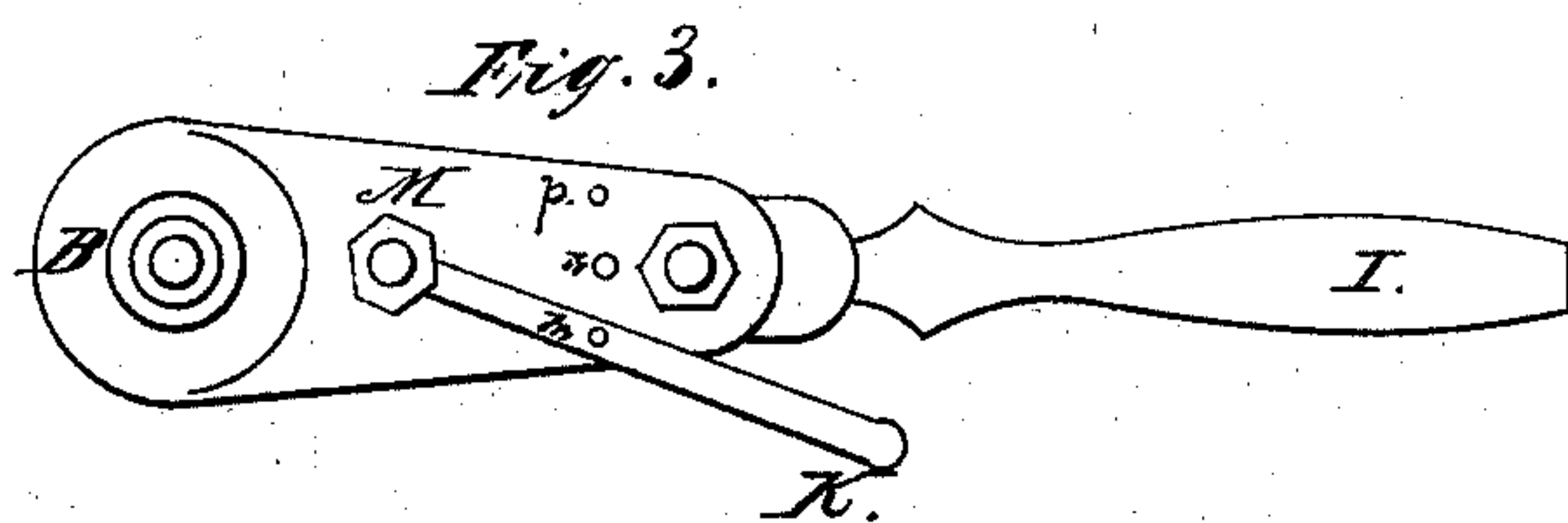
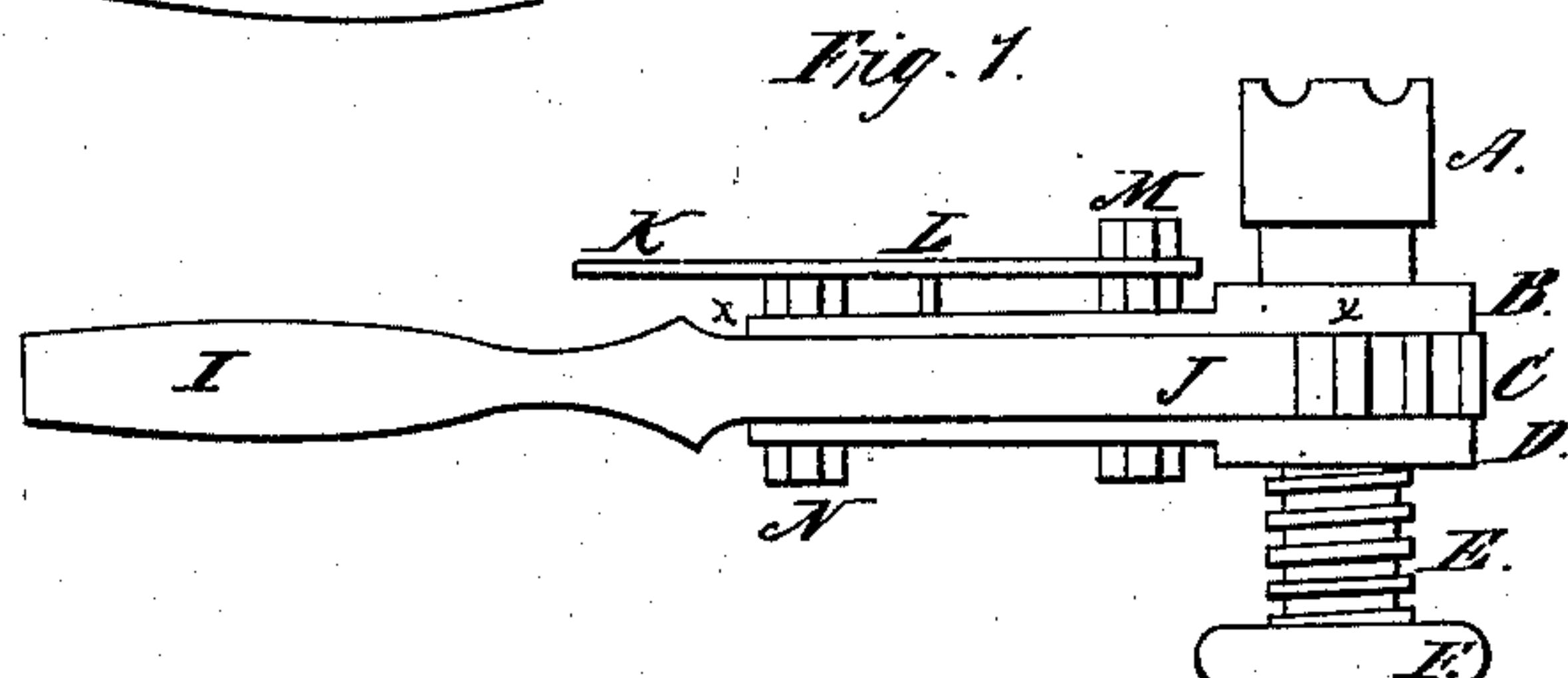
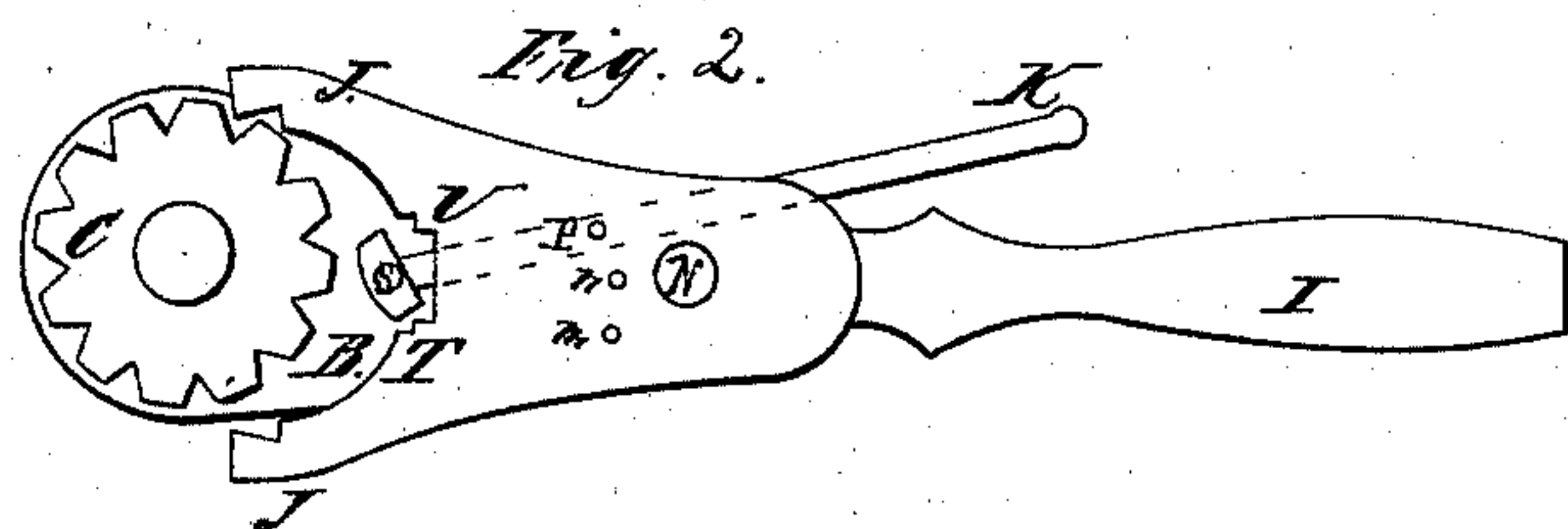


J. St. John,
Lifting Jack,
Nº 8,214, Patented July 8, 1851.



UNITED STATES PATENT OFFICE.

JAMES ST. JOHN, OF NEW YORK, N. Y.

LIFTING-JACK.

Specification of Letters Patent No. 8,214, dated July 8, 1851.

To all whom it may concern:

Be it known that I, JAMES ST. JOHN, of the city, county, and State of New York, have invented a new and Improved Elevating and Depressing Jack; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

10 The nature of my invention consists in combining a double armed catch, with an index bar, or lever, in such a manner as to render the instrument capable of a triple adjustment, by means of which the weight, or
15 material operated upon, may be either elevated, depressed, or remain stationary, at the pleasure of the operator, and simply by changing the position of the index lever.

20 To enable others skilled in the art to make and use my invention I will proceed to describe its construction and operation.

The letters indicate the same parts in all the figures.

25 I purpose to make the frustum, or supporting column of the instrument, as shown at G, of cast iron, and the other parts of wrought iron, other materials may however be used, if found advantageous in practice. The main vertical screw E, works, and fits
30 into an internal screw, cut on the inside of the frustum G, which rests on the pedestal H, and is strengthened by the collar F. The handle, or lever I I, turns freely on the bolt or pivot N, and branches into the form of
35 V, toward the spur wheel C, into which either of the claws J J, work in accordance with the position of the index lever, K, which governs the catch or button S, the

office of which is to prevent one claw J, from touching, or acting upon the spur wheel C, 10 by throwing the corner of the button into the notch T, or U, according to the position of the point L, in the hole P, or *m*, and also to prevent either of the claws, J J, from catching in the spur wheel when the point 45 L, is in the hole *n*.

A, represents a cap, which presses against the resisting body.

B and D, are two horizontal side plates which support the lever, I, J, and turn freely 50 on the screw E, guided by the spur wheel C, they may also be made to turn freely on the cylinders, P, and Q, which are connected with the spur wheel, C, the whole P, C, Q, moving together around the main screw E. 55

The friction roller, V, attached to the foot, O, materially assists in the application of the instrument.

The pin L, which regulates the movement of the spur wheel C, is fixed firmly to the index bar, K, which turns the bolt, or pin M, 60 the central part of which bolt M, constitutes the button S. The index bar, K, passes over the head of the bolt N, which combines the plates B, and D, with the lever of handle 65 I, J.

What I claim, as my invention and desire to secure by Letters Patent, is—

The catch, or button, S, operated by the index bar K, for the purpose of directing 70 the action of the lever, I, J, substantially in the manner herein set forth.

JAMES ST. JOHN. [L. s.]

Witnesses:

E. S. McPHERSON,
PHINEAS EMMON.