(No Model.)

A. J. TYLER.

BENCH HOOK.

No. 339,602. Patented Apr. 6, 1886.

Fig. 1.

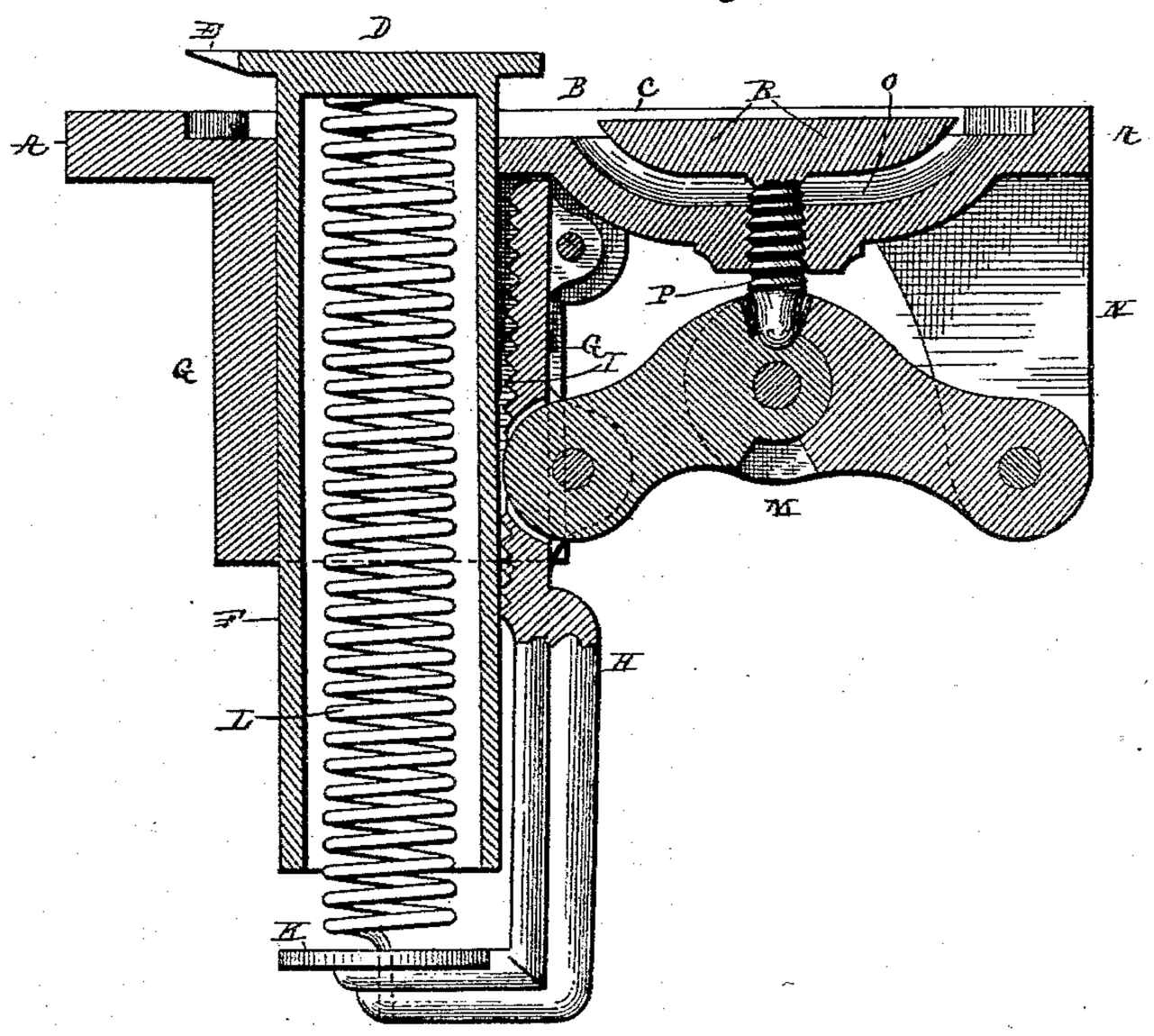
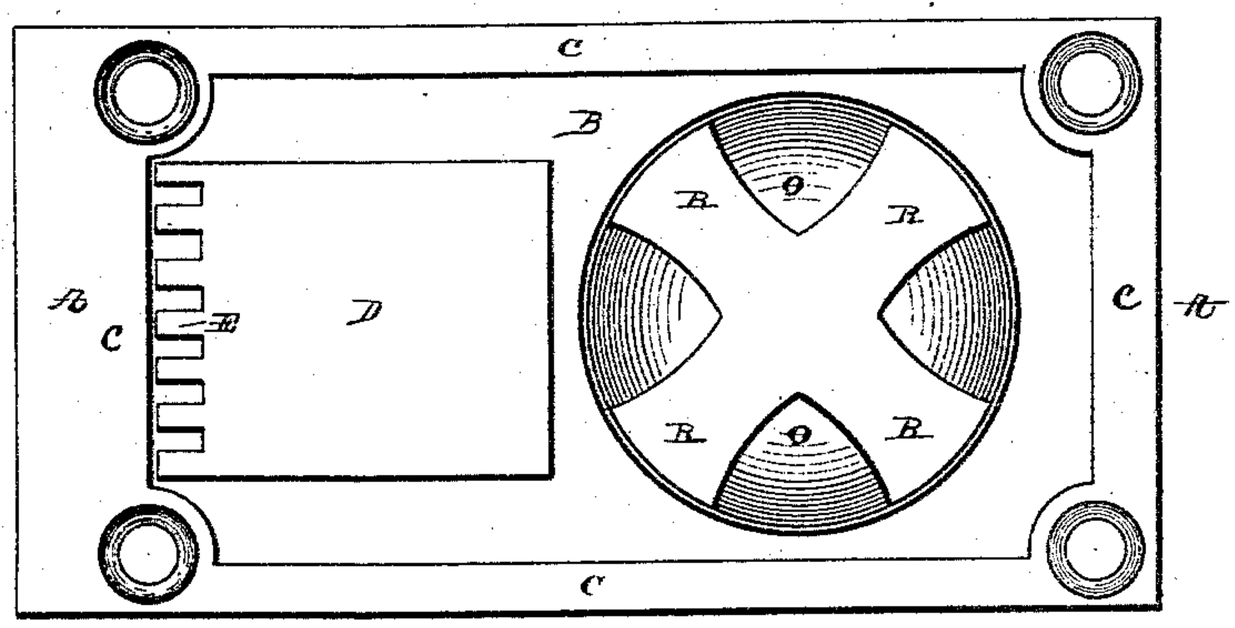


Fig. 2.



Witnesses
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UNITED STATES PATENT OFFICE.

AARON J. TYLER, OF ALBION, NEW YORK, ASSIGNOR TO EDWARD C. COLE, OF SAME PLACE.

BENCH-HOOK.

SPECIFICATION forming part of Letters Patent No. 339,602, dated April 6, 1886.

Application filed November 12, 1885. Serial No. 182,632. (No model.)

To all whom it may concern:

Be it known that I, AARON J. TYLER, a citizen of the United States, residing at Albion, in the county of Orleans and State of New York, have invented certain new and useful Improvements in Bench-Hooks, of which the following is a specification, reference being had therein to the accompanying drawings.

My invention relates to improvements in bench-hooks, and is designed to produce a device against which boards may be placed and held during planing or other operations of like character, that when properly secured on the bench will be flush with the surface thereof, and still be readily adjusted to any desired height and firmly held in the adjusted position.

In the drawings, Figure 1 represents a vertical section of the device, and Fig. 2 a plan view thereof.

The bed-plate A has the greater portion of its top recessed or depressed, as shown at B, so that a surrounding flange, C, is formed, the holes for the screws being near the corners. Passing through one end of the recessed portion of the bed-plate is the hook proper, and consists of a flat head, D, with one side or edge formed into teeth E, and a hollow stem, F, formed square or similarly shaped, to prevent turning. Formed on the under side of the bed-plate and surrounding the passage for the stem F, except on one (the rear) side, is a box or guiding-case, G, within which the said stem F normally rests and beyond the bottom of which it projects.

To the sides of the case G, at the upper rear end thereof and just under the bottom of the bed-plate A, is pivoted the dependent arm H, with a portion of one side notched or corrugated, as shown at I, and having at the lower end an extension or foot, K, on which rests a spring, L, extending into the stem F to the under side of the head D.

To the arm H is pivoted one end of a knuckle-joint, M, the other end being pivoted to downward-extending wings N, formed on the under side of the bed-plate. The recessed portion of the plate has a cup-shaped depression, O, to the rear of the hook proper, through the center of which passes a screw, P, resting on the central portion of the knuckle-joint, and having a head formed of arms R, shaped like a cross. When the screw is lowered, it causes the joint to lengthen out and presses the arm H against the stem F, thus by friction holding it in any desired position, the corrugations aiding in increasing the friction. When the pressure is released, the spring tends to throw the arm from the stem, and thus permit the adjustment of the hook proper. The spring also tends to throw the hook upward, and thereby causes the easy manipulation thereof. It is much more convenient to press the hook downward to the desired place than to lift it thereto; hence the spring is advantageous. The screw-head and the depression forming its seat permit the easy insertion of the fingers to operate it, while it does not project above the level of the bed-plate, and hence permits the working of very thin stuff.

I claim—

A bench-hook with a hollow stem, combined with a suitable bed-plate or support, a pivoted arm having a rough and bearing surface engaging said stem, and provided with an end extension or foot, a spring resting in said stem and on said foot, a knuckle-joint operating said arm, and a screw operating said joint, and having a manipulating head seated in the said bed-plate, substantially as specified.

In testimony whereof I affix my signature in presence of two witnesses.

AARON J. TYLER.

Witnesses:
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