

J C. WILCOX.
Shears and Punch.

No. 106,300.

Patented Aug. 9, 1870.

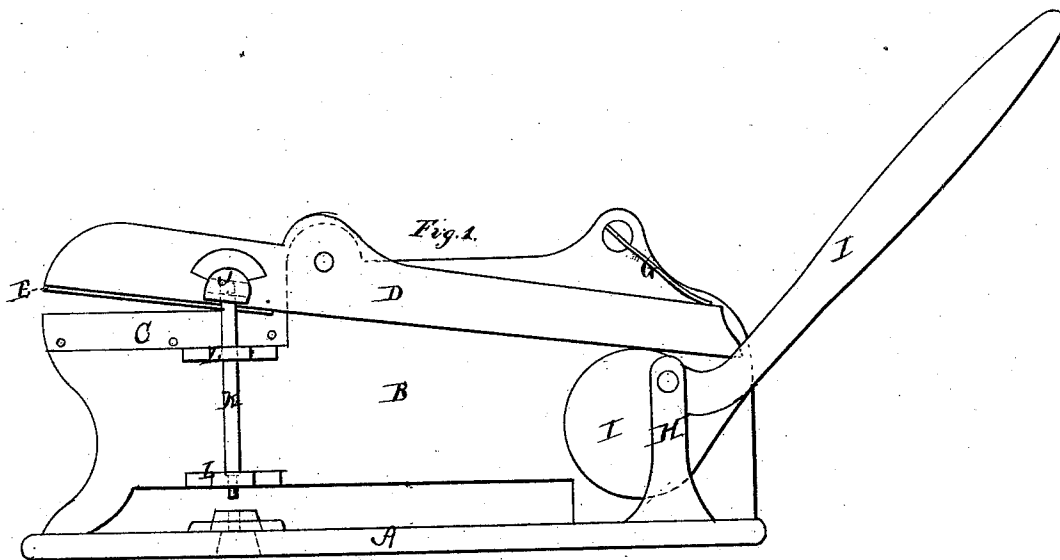
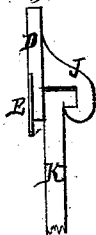


Fig. 2.



Witnesses

Henry N. Miller
John A. Ellis.

Inventor

J. C. Wilcox
Per
T. U. Alexander
Atty

United States Patent Office.

JOSIAH C. WILCOX, OF NEW LONDON, WISCONSIN.

Letters Patent No. 106,300, dated August 9, 1870; antedated August 5, 1870.

IMPROVED SHEARING AND PUNCHING-MACHINE.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, JOSIAH C. WILCOX, of the village of New London, in the county of Waupacca and State of Wisconsin, have invented certain new and useful Improvements for Shearing and Punching Iron and Steel; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

The nature of my invention consists in the construction and arrangement of a combined shears and punch, as will be hereinafter fully set forth.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawings, in which—

Figure 1 is a side elevation of my machine, and

Figure 2 is a front view of the movable jaw, showing the manner in which the punch is attached to the same.

A represents the bed of the machine, upon which is placed a frame or standard, B.

This frame is, at the front end, provided with a knife-blade, C, which forms one side of the shears.

On the side of the frame B is pivoted a bar, D, having at its front a similar knife-blade, E, forming the upper or movable part of the shears.

The rear end of the bar D is pressed downward by means of a spring, G, thus separating the knives or jaws C E by raising the upper one E.

Under the rear end of the bar D, and between the frame B and a small standard, H, is pivoted a cam-

lever, I, by the use of which the rear end of the bar D is forced gradually upward, closing the jaws of the shears.

The lever I may be used either turned toward the front or the rear, whichever will be most convenient for the operator.

On the side of the bar D, a suitable distance in front of the pivot-point, is a hook-shaped projection, J, as shown in fig. 2, within which is placed the upper end of the punch K, said end of the punch being provided with a shoulder or projection, for the hook J to catch on.

The punch K moves in guides L L, secured on the side of the frame B, and is operated by the motion of the bar D.

When the cam-lever I is turned so as to operate on the bar D, the jaws of the shears close, and the punch is forced downward, and as soon as the cam is turned away from said bar, the spring G presses its rear end downward, opening the shears and raising the punch.

Having thus fully described my invention,

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

The arrangement, herein described, of the pivoted bar or jaw D, cam-lever I, spring G, shear-blades C and E, punch K, hook-shaped projection J, and guides L L, substantially as and for the purpose set forth.

In testimony that I claim the foregoing as my own, I affix my signature in presence of two witnesses.

JOSIAH C. WILCOX.

Witnesses:

L. B. CHITTENDEN,
NEWTON W. CHITTENDEN.