

A Strube. *Power-Hammer.*

N^o 75808

Patented Mar. 24, 1868.

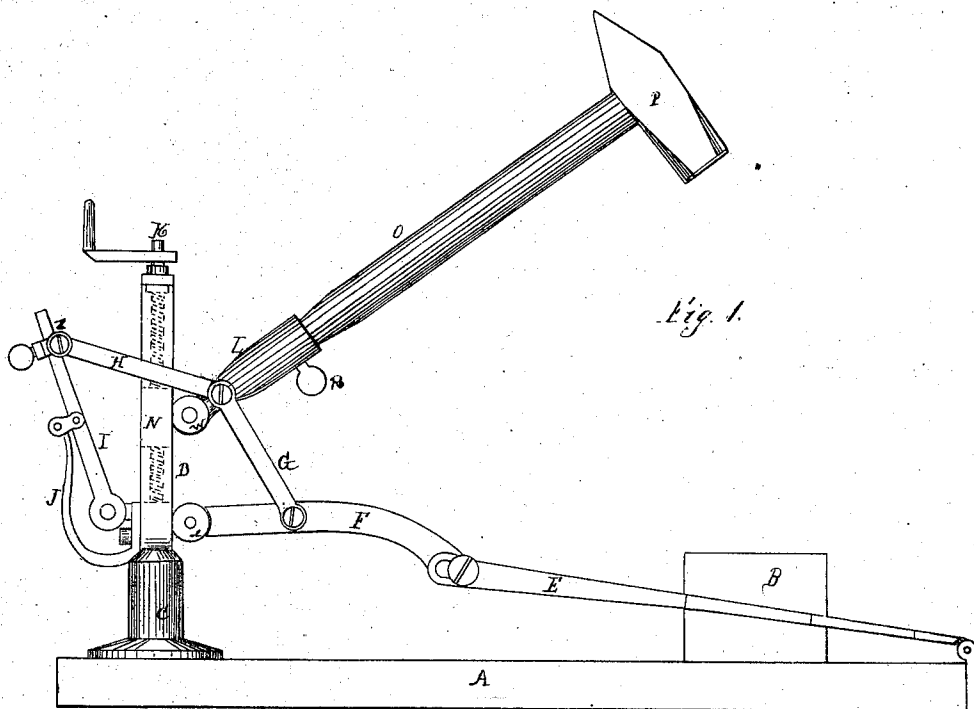
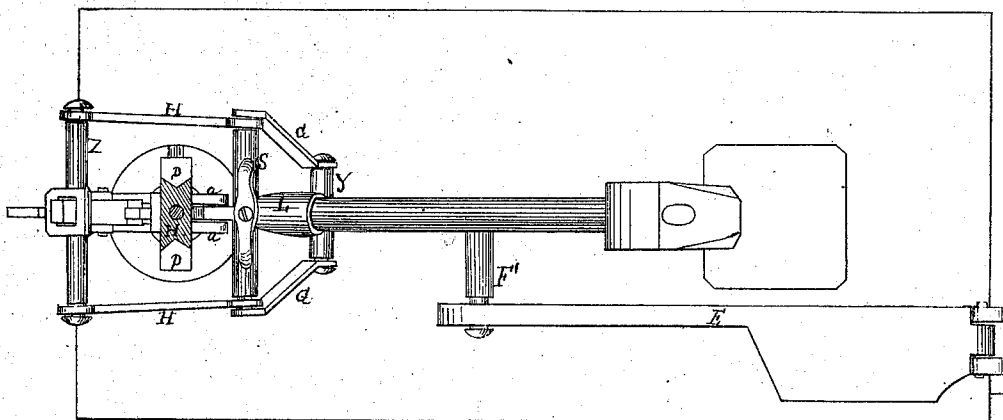


Fig. 1.

Fig. 2.



Witnesses
Wm. H. H. H. H.
V. D. H. H. H. H.

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by
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att.

United States Patent Office.

ANDREW STRUBE, OF FREDERICK, MARYLAND.

Letter Patent No. 75,808, dated March 24, 1868.

IMPROVEMENT IN POWER-HAMMER.

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, ANDREW STRUBE, of Frederick, in the county of Frederick, and in the State of Maryland, have invented certain new and useful Improvements in Striking-Device for Blacksmiths; and 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.

In the annexed drawings, making part of this specification, A represents a base or platform upon which my machine is erected. Secured in a vertical position near one end of this platform, is a sleeve, C. D represents a metallic frame, which may be either cast or wrought. This frame has a long slot made vertically in it, and the metal of the frame at the sides of the slot is V-shaped, so as to retain and guide a slide, N, which is placed in said slot. A stem projects from the centre of the lower end of this frame, and passes down into the sleeve C, and may be there stationed by means of a set-screw. The slide N is adjusted in the slot of the frame by means of a screw, K, which stands in a vertical position, and which is provided with a crank-handle at its upper end, by means of which it is operated. On one side of the slide N are two ears, W, between which one end of a socket, L, is pivoted. The handle O of any blacksmith's hammer can be inserted and secured in the outer end of this socket. Cast crosswise of the socket L is a shaft or bar, S, which has journals formed upon each of its ends. Upon one side of the frame D, near its lower end, are the ears e e, between which one end of a lever, F, is pivoted. This lever F has a crank, F', formed upon its other end, and this crank has its outer end turned down a little, and inserted in a slot in the inner end of a treadle, E. This treadle is hinged at its outer end to the platform A.

Y represents a cross-bar, secured to the lever F. G and H represent two sets of bars, whose inner ends are passed over the journals at the extremities of the cross-shaft S, the outer ends of one set of bars, G G, being secured upon the ends of cross-bar Y, and the outer ends of the other set, H H, being secured upon the ends of a cross-bar, Z. The cross-bar Z has a mortise or square hole through it, and through this hole passes a lever, I. The bar Z is adjustable upon the lever by an ordinary set-screw. The lower end of lever I is pivoted to an arm, which projects from the frame D, near its lower end. J represents a strong spring, one end of which is secured to the frame D, while the other end is connected to the lever I. This spring J bears the lever I outward from the frame D, and acting upon the hammer-handle through bars Z and H, it causes the hammer to rise, while the treadle E, acting upon said handle through bars G and S, causes the hammer to descend. By means of the screw K the slide N, to which the handle-socket L is pivoted, is adjusted vertically, and the length of stroke of the hammer regulated. By raising the slide the stroke is shortened, and by lowering it the stroke is lengthened. This effect may be obtained also by raising or lowering the bar Z upon the lever I. By lowering said bar the stroke is shortened, and by raising it the stroke is lengthened. B represents the anvil upon which the hammer is designed to play.

This device may be used for several anvils, as the treadle E may be shifted and the frame D turned partially around in the sleeve C, so that the hammer will strike upon any anvil in its radius. The operator, by using the foot upon the treadle, can dispense easily with the use of a striker.

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

1. The arrangement of the treadle E and lever F with the bars G G, socket L, and adjustable frame D, as and for the purpose set forth.
2. The arrangement of the lever I, spring J, and movable cross-bar Z with the bars H H, socket L, and slide N, with its screw K, as and for the purpose specified.

In testimony that I claim the foregoing, I have hereunto set my hand, this 12th day of February, 1868.

ANDREW STRUBE.

Witnesses:

A. N. MARR,
WM. WANSLEBEN.