(No Model.)

# O. C. BURDICT.

## BOLT HEADING MACHINE.

No. 264,820. Patented Sept. 19, 1882.

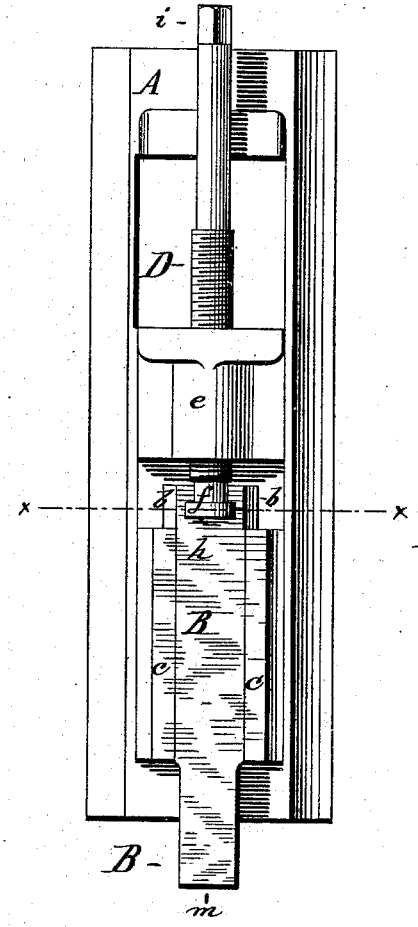


FIG. 1.

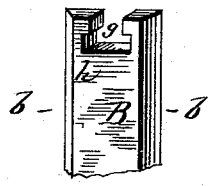


FIG. 3.

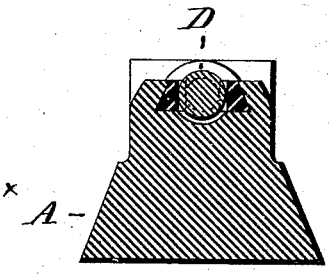


FIG. 2.

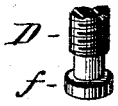


FIG. 4.

WITNESSES:

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INVENTOR:

Orrin Clark Burdict

by his atty

C. S. Renwick

# UNITED STATES PATENT OFFICE.

ORRIN CLARK BURDICT, OF BUFFALO, NEW YORK, ASSIGNOR TO PLUMB, BURDICT & BARNARD, OF SAME PLACE.

## BOLT-HEADING MACHINE.

SPECIFICATION forming part of Letters Patent No. 264,820, dated September 19, 1882.

Application filed January 6, 1882. (No model.)

*To all whom it may concern:*

Be it known that I, ORRIN CLARK BURDICT, of Buffalo, county of Erie, and State of New York, have made an invention of a new and useful Improvement in Mechanisms for Forging Bolts and similar Articles; and I do hereby declare that the following, in connection with the accompanying drawings, is a full, clear, and exact description and specification of the same.

Bolt-blanks, when made by machinery, have their heads shaped by means of dies which are caused to press against the metal; and such dies are generally carried by slides to which the requisite motion and force are imparted by the mechanism of the machine. The dies, when new, are rarely made of exactly the same length, and as they become worn away or are dressed up their length diminishes. On the other hand, the slides generally occupy the same position in the machine. Hence it becomes necessary to set and secure or adjust the die relatively to the slide which carries it; and the object of the present invention is to enable such adjustment to be made with facility.

To this end my invention consists of the combination of the foregoing die with the slide which carries it by means of a screw, which can be turned to move the die endwise relatively to the slide, and thereby adjust the acting end of the die relatively to the slide.

The accompanying drawings represent the mode in which I have embodied the invention for practical use.

Figure 1 is a face view of the slide and its appurtenances. Fig. 2 is a cross-section thereof at the line *x x* of Fig. 1. Fig. 3 is a view in perspective of the end of the die-shank, and Fig. 4 is a similar view of one end of the screw.

The slide A, to which the die is secured, may be constructed to be guided and operated in any desired mode, depending upon the machine of which it forms a part. In the present case it is constructed with converging edges adapted to move in the guides of the machine. The slide carries the die B, which is constructed to slide endwise upon the slide A; and in order that it may slide in this way, and may also be held to the face of the slide, I find it expedient to construct the shank of the die with converging edges *b b*, which are received between converging die-guides *c*, formed upon or secured to the slide A. In order that the die may be adjusted endwise relatively to the slide, the slide is provided with a screw, D, which is arranged lengthwise of said die, and is fitted to turn in a fixed nut, *e;* and the end of this screw has a head, *f*, which is engaged in a corresponding slot, *g*, formed in the end of the die-shank *h*. The end *i* of the screw is squared, so that it may be readily turned by means of a key-wrench.

With the above-described combination it is obvious that the die B may be moved endwise along the slide A by means of the screw D, and that the acting end *m* of the die may be thereby set and secured in any desired position relatively to the slide A by the action of the screw D, and when the die becomes worn by use the screw may be used to adjust its acting end to its proper position relatively to the slide which carries it.

I claim as my invention—

The combination, substantially as before set forth, of the forging-die, the slide which carries it, and the screw which is arranged lengthwise of said die, and by which said die may be adjusted endwise relatively to said slide.

In witness whereof I have hereto set my hand this 30th day of December, A. D. 1881.

ORRIN CLARK BURDICT.

Witnesses:

R. S. HOWARD,

P. P. BURTIS.