(No Model.)

W. J. PARMELEE.

MACHINE FOR TRIMMING THE FLASH FROM AXLES.

No. 471,136. Patented Mar. 22, 1892.

Fig. 1.

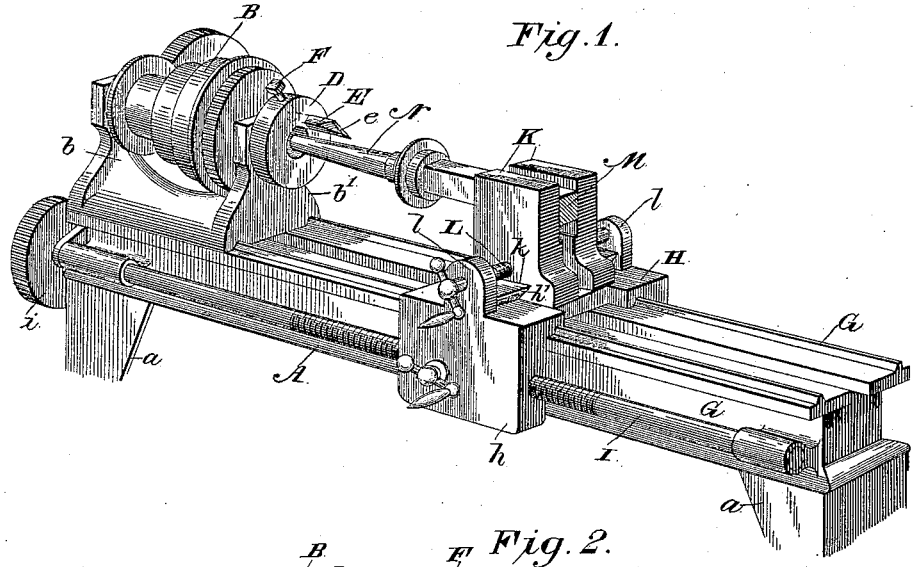


Fig. 2.

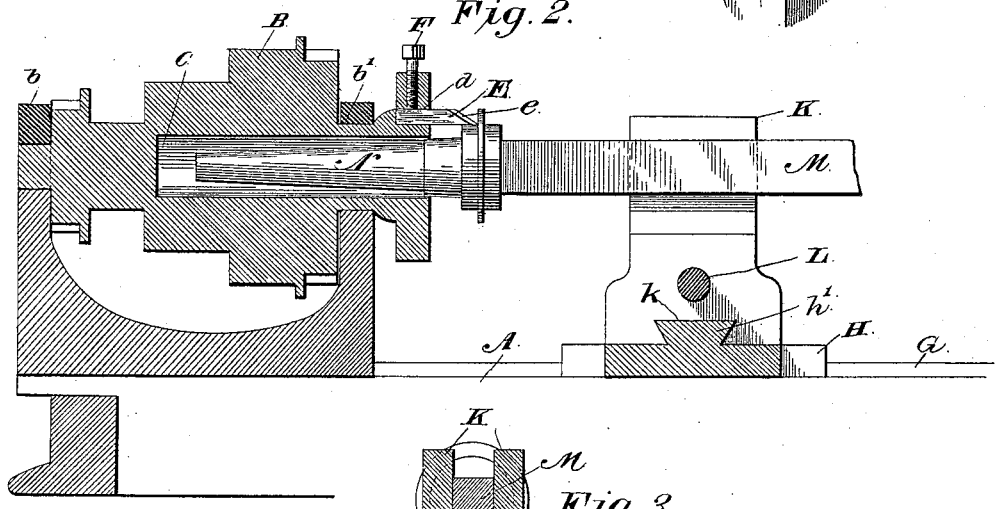
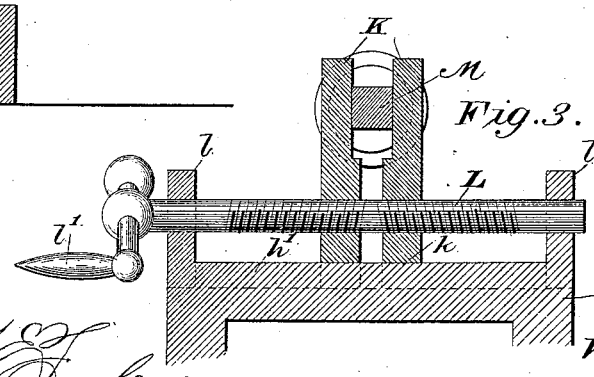


Fig. 3.



Witnesses

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WOLCOTT J. PARMELEE, OF WILKES-BARRÉ, PENNSYLVANIA.

MACHINE FOR TRIMMING THE FLASH FROM AXLES.

SPECIFICATION forming part of Letters Patent No. 471,136, dated March 22, 1892.

Application filed July 3, 1891. Serial No. 398,408. (No model.)

To all whom it may concern:

Be it known that I, WOLCOTT J. PARMELEE, a citizen of the United States, residing at Wilkes-Barré, in the county of Luzerne and State of Pennsylvania, have invented a new and useful Machine for Trimming the Flash from Axles, of which the following is a specification.

My invention relates to improvements in apparatus for trimming the fins or flash from die-forged axles, being especially designed to trim the flash from the collar formed by my collar-forming apparatus for which I obtained Letters Patent bearing date June 17, 1890, and numbered 430,541, and has for its object to simplify the apparatus for trimming the flash from the collar and to provide a construction whereby the operation can be easily performed without any undue manipulation; and to this end the invention consists in a lathe cutting apparatus constructed and arranged for the purposes set forth in the novel manner hereinafter more fully described, illustrated in the accompanying drawings, and specifically pointed out in the appended claims.

In the accompanying drawings, Figure 1 is a perspective view of a flash-cutting machine constructed in accordance with my invention. Fig. 2 is a longitudinal sectional view of the same. Fig. 3 is a transverse sectional view of the apparatus.

Referring to the accompanying drawings by letter, A designates the frame or bed of a lathe, mounted upon the ordinary legs *a*, and is designed to support the several parts of the apparatus. Located at one end of the bed or frame A is the ordinary cone-pulley shaft B, journaled within the ends of the ordinary bracket *b*, and to which motion is imparted in the usual and ordinary manner. The said pulley-shaft B is provided with a hollow bore C, extending longitudinally therethrough a sufficient length for the purposes as desired. The same forms a hollow chuck and terminates without the bearing *b'* of the bracket *b*, which forms a bearing for the hollow portion of the shaft in an enlarged head or flange D, which is provided with a recess *d*, within which the cutting-tool E is inserted, and is held therein by means of the set-screw F, passing through the body of said head or flange and bears upon said cutting-tool. The cutting bit or tool E is provided with the angular and beveled cutting-edge *e*, which especially adapts it for the purpose of removing the fins or flash from the collar.

The upper surface of the bed is provided with horizontal and parallel tracks G, upon which the sliding plate or frame H is designed to work. The said plate is provided with a lateral depending flange *h*, through which the screw-shaft I passes and, being connected and operated by the ordinary gearing *i* at one end thereof, controls and regulates the sliding frame or plate H. The said frame is provided on its upper surface with the dovetailed tongue *h'*, over which slide the laterally-adjustable plates K, which are provided with the dovetailed recesses *k*, taking over said tongues, and the same are adjusted to and from each other by means of the right and left screw-threaded shaft L, passing through each plate and journaled in the perforated lugs *l*, projecting up from the body of the frame or plate H, and is controlled by the ordinary hand-crank *l'*, connected with one end of said shaft. Between the jaws of the laterally-adjustable plates K the bed of the axle M is designed to be clamped when the fin or flash is to be removed from the axle-collar.

The construction and operation of my improved cutting apparatus are now thought to be apparent. The forged axle having the flash thereon is first firmly clamped between the clamping-plates K by means of operating the right and left screw-threaded shaft L. The gearing being thrown into gear, the sliding frame or plate carrying the axle approaches the hollow chuck provided with the cutting-tool, and as the same approaches the said chuck the spindle N of the axle passes into the hollow bore C of the chuck and brings the flash into direct contact with the cutting-edge of the knife located on the inner head of said chuck, and as the said chuck revolves and the sliding plates approach the same the collar is relieved from the flash or fin, which is evenly trimmed therefrom by this operation.

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

1. In a flash-trimming apparatus, a hollow

chuck provided with a cutting-tool and a sliding clamp carrying the axle thereto, substantially as set forth.

2. In a flash-trimming apparatus, a hollow chuck provided with an enlarged head or flange, a cutting bit or tool detachably secured within said head or flange, and a laterally-adjustable and sliding clamp adapted to hold the axle and approach said chuck, substantially as set forth.

3. In a flash-trimming apparatus, a hollow chuck provided with a cutting-tool, a sliding bed or plate provided with a transverse dovetailed tongue, and clamping jaws or plates provided with dovetailed grooves working over said tongue and provided with lateral adjusting means, the said jaws being adapted to clamp and hold the axle-bed and carry the same toward said hollow chuck, substantially as set forth.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

WOLCOTT J. PARMELEE.

Witnesses:
D. F. CARMODY,
F. W. PARMELEE.