

(No Model.)

L. S. MARTIN.  
TOOL HOLDER FOR LATHES.

No. 534,513.

Patented Feb. 19, 1895.

Fig. 2.

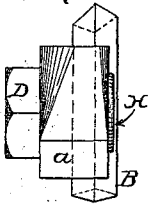


Fig. 1.

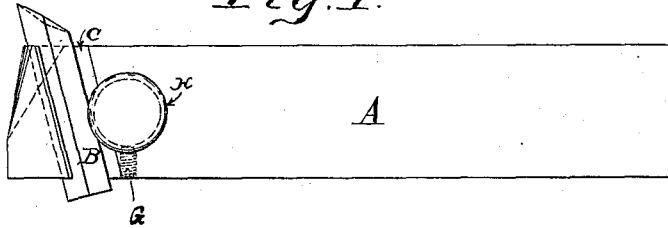


Fig. 3.

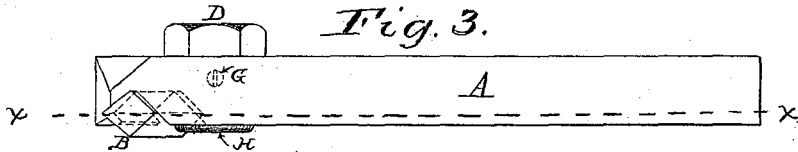


Fig. 6.

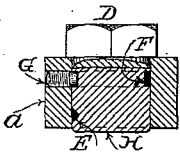


Fig. 4.

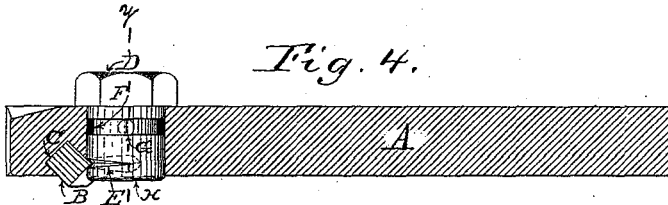
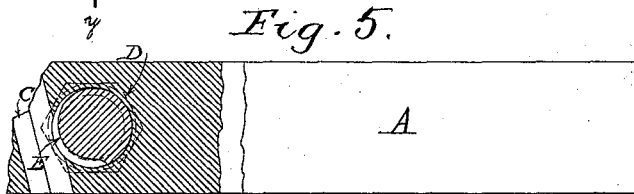


Fig. 5.



Witnesses:  
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per  
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# UNITED STATES PATENT OFFICE.

LYMAN S. MARTIN, OF ELGIN, ILLINOIS, ASSIGNOR OF ONE-HALF TO ROBERT CARL, OF SAME PLACE.

## TOOL-HOLDER FOR LATHES.

SPECIFICATION forming part of Letters Patent No. 534,513, dated February 19, 1895.

Application filed June 27, 1894. Serial No. 515,856. (No model.)

*To all whom it may concern:*

Be it known that I, LYMAN S. MARTIN, a citizen of the United States, and a resident of Elgin, in the county of Kane and State of Illinois, have invented certain new and useful Improvements in Tool-Holders for Lathes; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification.

My invention relates to improvements in tool-holders for lathes, and its object is to provide a novel construction of the same, by which the cutter can be readily adjusted with relation to the work in a rapid and efficient manner.

The invention consists in the novel construction and combination of parts, hereinafter fully described and claimed.

In the accompanying drawings: Figure 1 is a side elevation of a tool-holder, constructed in accordance with my invention. Fig. 2 is a front end view of the same. Fig. 3 is a plan view. Fig. 4 is a central horizontal section. Fig. 5 is a longitudinal section on the line  $x-x$ , Fig. 3, the cutter being removed. Fig. 6 is a cross-section on the line  $y-y$ , Fig. 4.

In the said drawings, the reference letter A designates a rectangular metallic bar constituting the holder, and adapted to be connected with a tool post or the slide rest of a lathe in any ordinary manner. Near its front end this bar is formed with a rectangular inclined groove C to receive the tool or cutter B, which fits loosely therein. In rear of this groove and intersecting the rear wall thereof is an annular transverse opening in which is seated a rotatable annular block H, provided with an angular head D, by which it may be rotated by a wrench or other suitable imple-

ment. Near one end this block is formed with an annular peripheral groove F, with which engages a screw-bolt or pin G passing through a screw-threaded hole in the holder. Near its other end the block is formed with a beveled cam or eccentric groove E, which extends partly around the periphery thereof, and with which one of the edges of the rectangular cutter engages.

The operation will be readily understood. The holder is connected with a lathe in any suitable manner and the block H is turned so that the deepest part of the groove E will register with the inclined groove in the holder. The cutter is now inserted in the groove C, and can move up and down therein so as to be properly adjusted with respect to the work. When adjusted, the block is turned by means of a wrench when the cam-face of the groove E will engage with the rear edge of the cutter and clamp the latter against the front walls of groove C, thus firmly holding the cutter in place. By turning the block in the opposite direction, the cutter is released, and may be adjusted, or removed entirely, as may be desired.

Having thus described my invention, what I claim is—

The combination with a tool holder for lathes, having a groove near its front end to receive a tool or cutter and formed with an intersecting transverse recess, of the rotatable block seated in said opening having a peripheral cam or eccentric groove, and an annular peripheral groove and a screw-bolt or pin engaging with said annular recess, substantially as described.

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

LYMAN S. MARTIN.

Witnesses:

ROBERT ROSS HUNT,  
BESTER R. WEBSTER.