

L. REDER.

Tool-Holders for Lathes.

No. 145,684.

Patented Dec. 16, 1873.

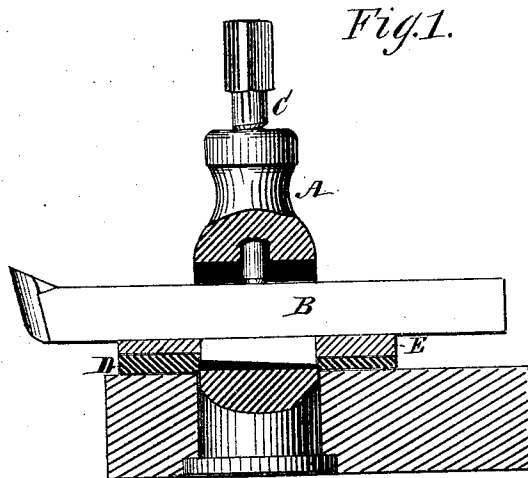


Fig. 2.

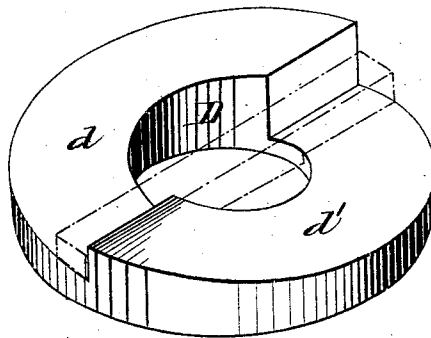
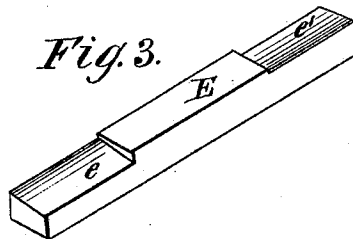


Fig. 3.



Witnesses.

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LEWIS REDER, OF WILMINGTON, DELAWARE.

IMPROVEMENT IN TOOL-HOLDERS FOR LATHES.

Specification forming part of Letters Patent No. **145,684**, dated December 16, 1873; application filed December 1, 1873.

To all whom it may concern:

Be it known that I, LEWIS REDER, of Wilmington, in the county of New Castle and State of Delaware, have invented a new and Improved Tool-Holder; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawing forming a part of this specification, in which—

Figure 1 is a central vertical section. Fig. 2 is a perspective view of the washer. Fig. 3 is a perspective view of the shoe.

The invention relates to the tool-holder of a slide-lathe; and consists in a novel mode of rendering the tool adjustable in height and pitch, as hereinafter described, and pointed out in the claim.

A represents a tool-post, slotted to receive therethrough the tool B, and provided with the usual clamp set-screw C, that bears on the upper surface of tool. D is a subjacent washer, which has the usual inclines d d' to hold the tool in position; but instead of making these reversed inclines of the same height, I place the one, d , higher than the other, d' , and employ a shoe, E, which has its reversely-inclined

ends e e' made correspondingly to those of the washer.

The operation is as follows: By placing the shoe E with its thick end e upon the incline d' of the washer, the tool will always be held in a horizontal position, no matter how much it may be raised by turning the washer, or adjusted laterally by turning the tool on the washer. On the other hand, by placing under the heel of tool the thick end e of shoe on the thick end d of washer, the point will be depressed; or, by placing the small end e' of shoe on the incline d of washer, the front of tool will be thrown up.

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

The combination, with tool-holder A, of washer D and shoe E, the two having corresponding inclines d d' and e e' , as and for the purpose described.

LEWIS REDER.

Witnesses:

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