(No Model.)

C. W. HUNT.

TOOL POST FOR LATHES.

No. 375,489. Patented Dec. 27, 1887.

Fig. 2.

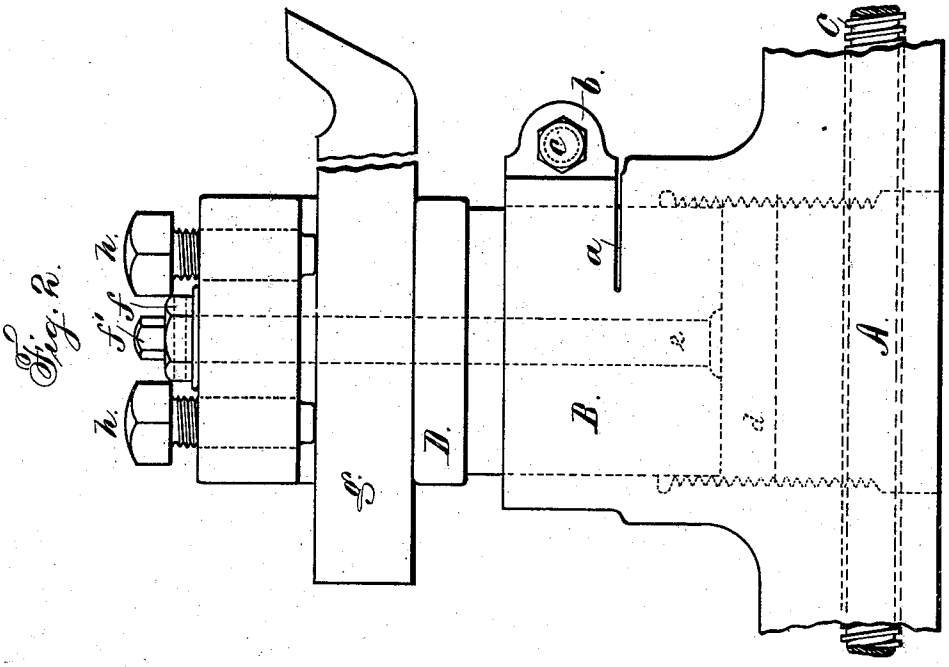
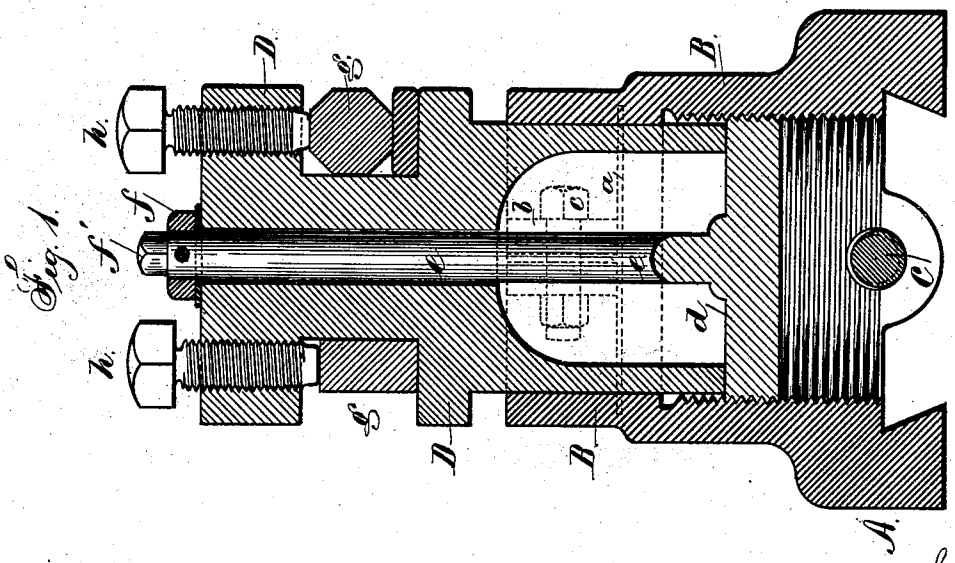


Fig. 1.



Witnesses
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UNITED STATES PATENT OFFICE.

CHARLES W. HUNT, OF WEST NEW BRIGHTON, ASSIGNOR TO THE C. W. HUNT COMPANY, OF NEW YORK, N. Y.

TOOL-POST FOR LATHES.

SPECIFICATION forming part of Letters Patent No. 375,489, dated December 27, 1887.

Application filed August 8, 1887. Serial No. 246,404. (No model.)

To all whom it may concern:

Be it known that I, CHARLES W. HUNT, of West New Brighton, in the county of Richmond and State of New York, have invented a new and useful Improvement in Tool-Posts for Lathes; and the following is declared to be a description of the same.

My invention relates to a tool-post for lathes which is capable of adjustment vertically to bring the cutting-tool up or down to the work, and which is also capable of being moved around a central rod to bring the cutting-tool to any desired angle.

My invention consists of a tool-post for metal-working lathes in which there is a slide through which the feed-screw passes, and a hollow standard that is adapted to receive the tool-holder and clamp the same in place. The lower interior portion of this standard is screw-threaded, and there is an adjusting-disk working in the threads of the standard, and having a central rod and clamping-nut, which rod passes vertically through the tool-holder, and the position of the tool and holder vertically is determined by the disk, and it is clamped by the disk rod and nut, and it is kept from revolving by lugs and a clamping-bolt upon the hollow standard.

In the drawings, Figure 1 is a vertical section of my improved tool-post, and Fig. 2 is an elevation of the same.

The slide A and hollow standard B are preferably made of one piece of metal, the under side of the slide being dovetailed to receive the ordinary slideway of the lathe, and it has the feed-screw C passing through it.

The lower internal portion of the standard B is screw-threaded, and the upper internal portion is smooth and cylindrical. This upper portion is cut horizontally at *a* for about one-third of its circumference, and there are lugs at *b*, separated by a vertical opening running from the upper edge of the standard B to the cut at *a*, and a bolt, *c*, passes horizontally through the lugs *b*, these parts forming a clamp located in the most convenient and desirable position.

There is a circular disk, *d*, threaded circumferentially to correspond with the internal thread of the standard B, and rising from said disk is a central rod, *e*, that passes through the tool-holder and is provided with a nut or collar, *f*, secured to the rod, and the upper end of the rod is polygonal. This disk and rod are introduced upwardly into the standard B before it is put in place upon the slideway of the lathe.

The tool-holder D is a hollow cylinder at the lower end, and it fits accurately within the upper end of the standard B, and its lower edge rests upon the disk *d*. The sides of this tool-holder are slotted to receive the tool or tools *g*, and there are clamping-screws *h*, by means of which the tools are held firmly in place.

The tool is adjusted vertically by loosening the bolt *c* and revolving the rod *e* and disk *d* up or down by means of a wrench applied to the hexagonal end *f'* of the rod *e*, thus elevating or lowering the tool-post and tool, and the angle of the tool to its work is regulated by turning the holder D more or less around the central rod, *e*, and it is secured by the clamping-bolt *c* drawing the lugs *b* toward each other to prevent it turning, and the parts are firmly held in position.

My improved tool-post is simple and strong and is easily and quickly operated, and is very effective in use, and the working parts are so constructed that dust and chips are excluded, thereby leaving the parts free to work easily and unobstructed.

I claim as my invention—

1. The hollow internally-threaded and split standard and the clamping-bolt, in combination with the tool-holder having a cylindrical portion that passes into the hollow standard, and a central rod and circumferentially-threaded disk within the screw-threaded portion of the hollow standard and acting to raise or lower and support the tool-holder, substantially as specified.

2. The slide and hollow internally-threaded and split standard and clamping-bolt, in combination with the hollow tool-holder having a cylindrical portion that passes into the hol-

low standard, a circumferentially-threaded disk within the screw-threaded portion of the hollow standard, a central rod connected with the disk and adapted to rotate the same and passing vertically through the hollow tool-holder, and a collar around and secured to the rod near its upper end, substantially as specified.

Signed by me this 4th day of August, A. D. 1887.

CHAS. W. HUNT.

Witnesses:
HAROLD SERRELL,
WILLIAM G. MOTT.