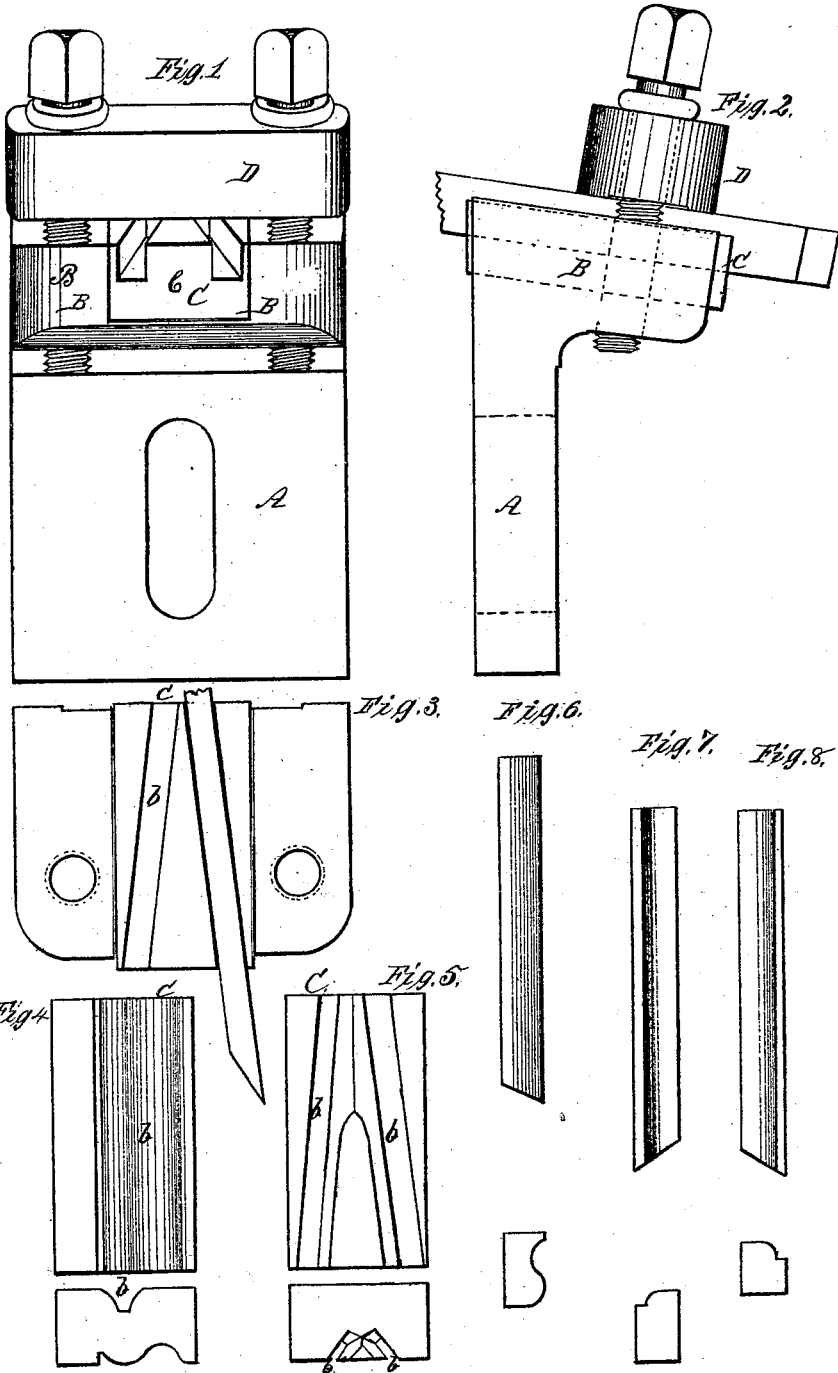


I. Hardenberg,

Tool Rest.

No. 96,426.

Patented Nov. 2, 1869.



Witnesses.
Edward C. Ames
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FAYETTE HARDENBERGH, OF PROVIDENCE, RHODE ISLAND.

Letters Patent No. 96,426, dated November 2, 1869.

IMPROVED TOOL-POST.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, FAYETTE HARDENBERGH, of the city and county of Providence, in the State of Rhode Island, have invented a new and useful Improvement in Tool-Posts; and I do hereby declare that the following specification, taken in connection with the drawings, making a part of the same, is a full, clear, and exact description thereof.

Figures 1 and 2 are, respectively, front and side views of the improved tool-post.

Figures 3, 4, and 5, exhibit different forms of a holding-block used with the post.

Figures 6, 7, and 8, represent different forms of tools that may be used.

My invention seeks to secure all the advantages which result from the use of a tool, which does not require to be reformed, but which, when once properly shaped, can be used until worn out from repeated grindings. Heretofore it has been customary to adapt this class of tools to a holder, which latter is made of the size required to fit the ordinary mortise in the tool-post. Although such tools and holders serve in many cases a useful purpose, they have not come into general use, notwithstanding their many advantages, by reason of the fact that they must be, with the ordinary form and construction of the tool-post, too small for any but the lighter classes of work.

My improvement consists in the construction of a tool-post of particular form, and the combination therewith of interchangeable tool-holders adapted to two or more tools of different forms and dimensions, and which present the tools to the work at the same or different angles.

Referring to figs. 1 and 2—

A B is the substitute for the post heretofore commonly used. It is secured to the frame of the lathe by a clamp-bolt passing through the slot *a* in the bed-piece.

The portion of the post designated as B is at nearly

a right angle with the portion A, its angle of inclination being such as is deemed most advisable, so as to enable the cutting-tool to be held in a position most favorable to make its cut, having reference to the direction of the fibre of the metal of the tool.

The face of the upright portion B is recessed to the depth of about seven-eighths of an inch, and for the width of about one and one-fourth inch, more or less.

The purpose of this recess is to receive a metal block, C, which is the tool-holder proper.

This block is one of many which may be fitted to such recess, and they are channelled, as at *b*, in a way best suited to accommodate tools of different forms and sizes, figs. 3, 4, and 5.

The block, with its tool, is held in the post by a clamp, D, as shown, or by other convenient means.

From the foregoing, it will be readily understood that the same post, by merely changing the holding-block, can be used with a single tool of the largest size that for ordinary work is employed, or with a gang of two or more tools; and this latter capacity is of great economy where both a right and a left-handed tool is required upon the same piece of work, or where, as in finishing off top rollers for spinning-machinery, perfect identity in the length of the several barrels of the rollers is desired.

I do not claim as new the employment of a tool-holder for a separate cutting-tool, whose cross-section is the same throughout its length, as many varieties of such are known; but

What I claim as my invention, and desire to secure by Letters Patent, is—

A tool-post, A B, constructed substantially as described, and combined with interchangeable tool-holding-blocks C, as specified.

FAYETTE HARDENBERGH.

Witnesses:

EDWARD C. AMES,
ORVILLE PECKHAM.