

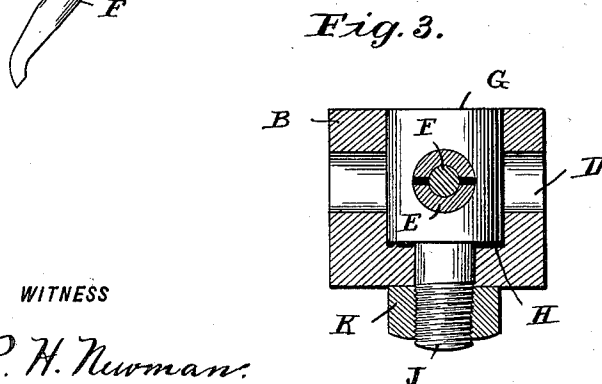
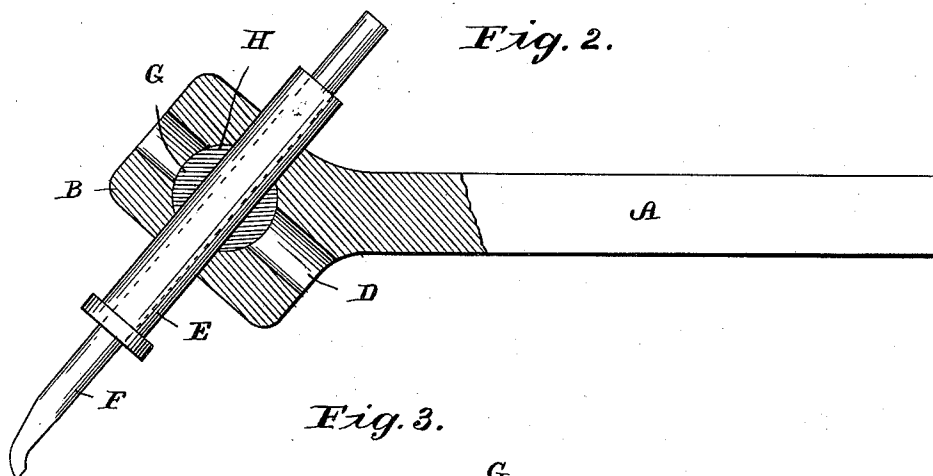
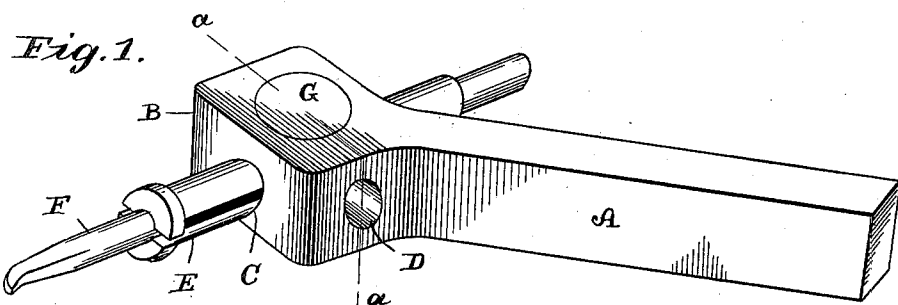
No. 628,707.

Patented July 11, 1899.

J. GREGORY.  
LATHE TOOL HOLDER.

(Application filed Aug. 16, 1898.)

(No Model.)



WITNESS

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# UNITED STATES PATENT OFFICE.

JAMES GREGORY, OF BRIDGEPORT, CONNECTICUT.

## LATHE TOOL-HOLDER.

SPECIFICATION forming part of Letters Patent No. 628,707, dated July 11, 1899.

Application filed August 16, 1898. Serial No. 688,738. (No model.)

*To all whom it may concern:*

Be it known that I, JAMES GREGORY, a citizen of the United States, and a resident of Bridgeport, in the county of Fairfield and State of Connecticut, have invented certain new and useful Improvements in Lathe Tool-Holders, of which the following is a specification.

This invention relates to new and useful improvements in lathe-tool holders, such as are used in connection with the tool-stock of a metal-working lathe.

It is the object of my invention to provide an improved form of tool-holder which is adapted to receive tools of varying shapes and for different purposes in the matter of lathe-work and to so construct said holder as to retain said tool at different angles with relation thereto, thereby enabling the operator to operate upon the interior and exterior of a cylindrical of tubular body and similar work.

It is finally the object of this invention to provide an improved form of clamp whereby said tools may be firmly retained within the holder and at the same time to permit of quick and accurate adjustments of the tools therein.

With the above objects in view my invention resides and consists in the novel construction and combination of parts set forth in the accompanying drawings, forming a part of this specification, and upon which similar characters of reference denote like or corresponding parts throughout the several figures, and of which—

Figure 1 shows a perspective view of my novel tool-holder, the same containing a novel form of cutter clamped therein. Fig. 2 is a horizontal sectional plan view of the construction shown in Fig. 1. Fig. 3 is a central vertical cross-section on line *aa* of Fig. 1.

Referring to the characters of reference marked upon the drawings, A indicates the shank of my novel tool-holder, the same being preferably flat, of a shape to readily fit and be clamped into any ordinary form of tool-stock in the customary manner. The head B of this holder is enlarged and provided with bores C and D, arranged horizontally there-through at an angle to the holder and at a right angle to each other. These bores may

be of any desired diameter, but preferably of a size to receive stock sizes of cutters. In order to provide for small sizes of cutting-tools, however, I employ a split sleeve E, into which the cutters F are inserted, after which they are firmly clamped to the holder.

The means for clamping the cutters within the holder comprises a cylindrical post G, fitted within a corresponding vertical recess H, which latter extends below the transverse bores D. (See Fig. 3.) Said post is provided with an opening I of a size corresponding to that of the bores before mentioned and so located as to register with either of said bores when said post is properly adjusted. It will thus be apparent that when the post is adjusted so that the opening registers with either the bore C or D a cutter may be firmly inserted therethrough, as shown in the drawings. The post G is provided with a threaded stem J, which receives the nut K. It will thus be seen from the foregoing construction that when it is desired to clamp the cutter and its sleeve within either bore of the holder it is simply necessary to tighten the nut K, which draws the post up into the recess and binds the cutting-tool firmly against the head of the holder.

In the drawings I have shown the head of the holder substantially square, with the bores to receive the cutters arranged at a right angle to each other. It is of course obvious that said head may be of cylindrical formation and its bores arranged at other than a right angle, and in fact more than two bores could be provided. I find in practice, however, that with two bores arranged as herein shown a mechanic can adjust a tool within the holder so as to get at and operate upon work of almost any character when placed into a lathe, thereby avoiding the necessity of making special tools and holders for special work.

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

A tool-holder of the class described, the same comprising a head provided with transverse holes at an angle of forty-five degrees to the shank, a recess at right angles to said

holes and at their intersection, a post fitted  
to said recess and bearing holes to register  
with the holes aforesaid and having a reduced  
threaded stem projecting from said recess, a  
5 nut engaging said stem to operate the post,  
a bushing interposed between the post and  
head as and for the purpose described.

Signed at Greensburg, in the county of  
Westmoreland and State of Pennsylvania,  
this 25th day of July, A. D. 1898.

JAMES GREGORY.

Witnesses:

J. A. C. RUFFNER,

H. W. WALKINSHAW.