

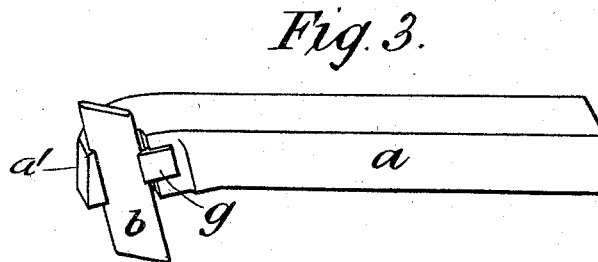
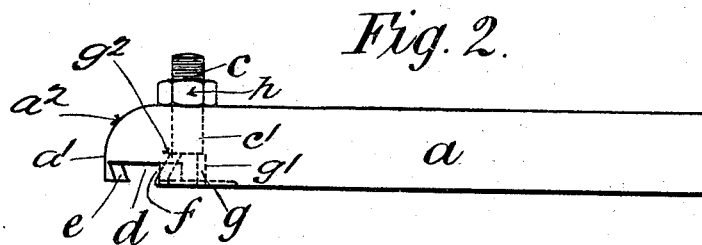
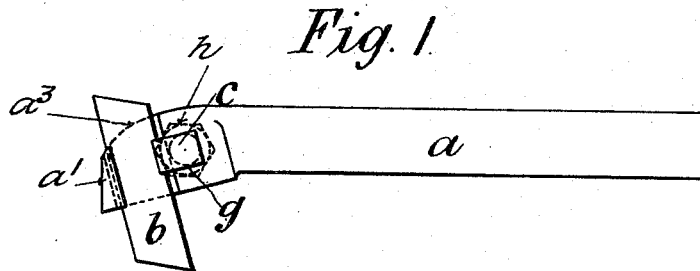
No. 646,967.

Patented Apr. 10, 1900.

E. FERRY.
TOOL HOLDER.

(Application filed May 29, 1899.)

(No Model.)



Witnesses

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UNITED STATES PATENT OFFICE.

ERNEST FERRY, OF NEWCASTLE-UPON-TYNE, ENGLAND.

TOOL-HOLDER.

SPECIFICATION forming part of Letters Patent No. 646,967, dated April 10, 1900.

Application filed May 29, 1899. Serial No. 718,782. (No model.)

To all whom it may concern:

Be it known that I, ERNEST FERRY, a subject of the Queen of Great Britain, and a resident of Newcastle-upon-Tyne, England, have
5 invented certain new and useful Improvements in Tool-Holders, of which the following is a specification, reference being made to the accompanying sheet of drawings.

Figure 1 is an elevation of the improved
10 holder with tool therein. Fig. 2 is a plan view thereof without the tool. Fig. 3 is a perspective view of the same with the tool therein.

A prismatic bar *a* has its end *a'* made so that the lower face of the end piece *a'* is at
15 an obtuse angle thereto. The upper face of the end piece is rounded downwardly. In one side face of this end piece *a'* is a recess *d*, which extends across the side face of the end piece *a'* in a direction at right angles to the
20 general direction of said end piece—that is to say, with its axis perpendicular to the lower face. The recess *d* is open at its ends at the upper and lower faces of the end piece, and it is bounded toward the outer extremity of
25 end pieces by an undercut edge *l* and toward the bar *a* by a vertical edge *f*. The side face of the end piece opposite to that in which is the recess *d* is rounded, as shown in Fig. 2. A bolt *c* passes through the end piece *a'* from
30 one side to the other, a passage *c'* being made in the end piece to receive it. The head *g* of the bolt *c* is prismatic and fits in a prismatic recess *g'* in the end piece *a'*, one face *g²* of the bolt-head *g* being undercut and projecting through a cut-away portion of the vertical face *f*. The other end of bolt *c* is screw-

threaded to receive a nut *h*, which bears against the side face of the end piece *a'* on the side other than that containing the recess *d* in order to adjust the bolt *c* in such a manner as to firmly hold a tool, such as *b*, in the recess *d* between the undercut faces *e g²*. 40

The end *a'* of the tool-holder may be rounded laterally, as at *a²*, Fig. 2, and downwardly, as at *a³*, Fig. 1.

Having now described my invention, I
45 claim—

In a tool-holder the combination of a stem *a* having an end piece *a'* having its under face at an obtuse angle to the stem *a*, having its
50 upper face rounded downwardly and having one side face parallel to the side face of the stem *a* and the other side face rounded, the said end piece also having in its flat side face a lateral recess *d* whose axis is perpendicular
55 to the lower face of the end piece *a'* open at the ends and bounded toward the outer end of the end piece by an undercut edge *e* and toward the stem by a vertical edge *f* and having a passage-way *c'* partly prismatic at *g'*,
60 with a bolt *c* having a prismatic head *g* for engagement with said prismatic part *g'* of the passage-way and an undercut face *g²* on said head and means for moving said bolt in a direction perpendicular to the plane of the recess for the purpose set forth. 65

In witness whereof I have signed this specification in the presence of two witnesses.

ERNEST FERRY.

Witnesses:

T. J. WATSON,
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