(No Model.)

A. A. GRIFFIN.

TOOL HOLDER.

No. 489,678. Patented Jan. 10, 1893.

Fig. 1.

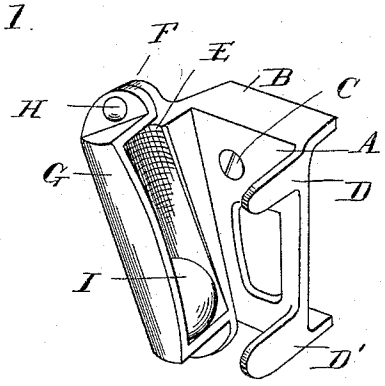


Fig. 2.

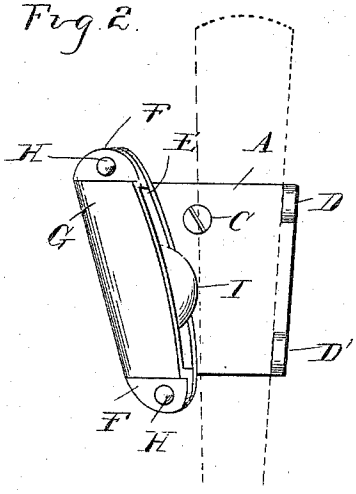


Fig. 3.

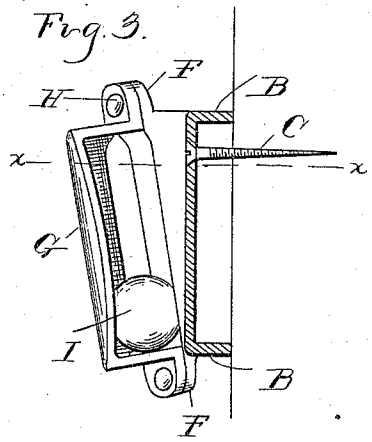
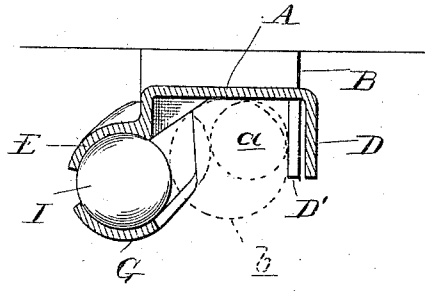


Fig. 4.



Witnesses
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UNITED STATES PATENT OFFICE.

ALBERT A. GRIFFIN, OF ROSCOMMON, MICHIGAN.

TOOL-HOLDER.

SPECIFICATION forming part of Letters Patent No. 489,678, dated January 10, 1893.

Application filed March 21, 1892. Serial No. 425,745. (No model.)

To all whom it may concern:

Be it known that I, ALBERT A. GRIFFIN, a citizen of the United States, residing at Roscommon, in the county of Roscommon and State of Michigan, have invented certain new and useful Improvements in Holders for Tools, of which the following is a specification, reference being had therein to the accompanying drawings.

This invention relates to new and useful improvements in tool holders, and the invention consists in the peculiar construction of a bracket or frame having a stationary abutment upon one side and a pocket or guide-way upon the other side, inclined toward the stationary abutment and toward the plane of the bracket from the top toward the bottom, in which freely runs a clamping ball.

The invention further consists in the peculiar combination, arrangement and construction of the various parts, all as more fully hereinafter described.

In the drawings, Figure 1 is a perspective view of my improved holder. Fig. 2 is a front elevation thereof. Fig. 3 is a vertical, central section looking to the left in Fig. 2. Fig. 4 is a horizontal section on line *x x* Fig. 3.

A is a plate or bracket designed to be secured to the wall in vertical position, and preferably supported a slight distance from the surface of said wall by the legs B. This plate is apertured to receive the screw C, by means of which it may be secured in position. At one side of the plate are the forwardly extending lugs or abutments D D′, the lower one being set slightly in, as plainly shown in Figs. 2 and 4. Upon the opposite side of the plate A is formed an inclined pocket or guide-way, preferably by casting integral with the plate A a grooved bearing E, having lugs F at the top and bottom upon which is secured the curved cap plate G having corresponding lugs to receive the rivets H, the whole forming a groove or guide way open at its inner face and adapted to receive and hold the clamping ball I which is of such a size as to run freely in the guide way, with its inner face projecting slightly beyond the inner face of the guide way. This guide way is inclined toward the stationary abutment and toward the plane of the plate A from the top toward the bottom.

The device so constructed being secured upon the wall, to suspend a tool, such as a broom, hoe or other similar device, the handle of the tool is brought between the guide way and the stationary abutment and forced in to a seat against the plate A. The effect of this will be to raise the ball I to a point at which it will bear against the side of the tool handle and it will act by gravity to clamp the tool between this ball and the stationary abutment upon the opposite side, as plainly shown in Fig. 2.

If the guide-way ran parallel with the plane of the plate A, in case a small handle were placed in position, the center of the ball would pass beyond the center of the handle and thus lock it so securely in position as to make its disengagement impossible except by first lifting up the ball. By arranging the guide way on an incline from the top to the bottom toward the plane of the plate A it will at the lower end approach that plate and therefore will be at the proper point to clamp a small handle at the center, while at the upper end it will be moved far enough away from the plate to clamp a large handle at the center and thus allow of the disengagement of either handle by simply withdrawing it laterally. The effect of this action is plainly shown in Fig. 4, in which the dotted line *a*, represents the cross section of a small handle, showing the ball clamping it in position, while the dotted lines *b* show a large handle with a ball at the top clamping that in position.

What I claim as my invention is;

In a tool holder, the combination of the bracket consisting of the plate A and legs B of the stationary inclined abutment upon one side, the inclined grooved bearing E formed upon the opposite side, the lugs F upon said bearing, the grooved cap G having lugs, and rivets H, the parts arranged to operate, substantially as and for the purpose described.

In testimony whereof I affix my signature in presence of two witnesses.

ALBERT A. GRIFFIN.

Witnesses:
M. B. O'DOGHERTY,
N. L. LINDOP.