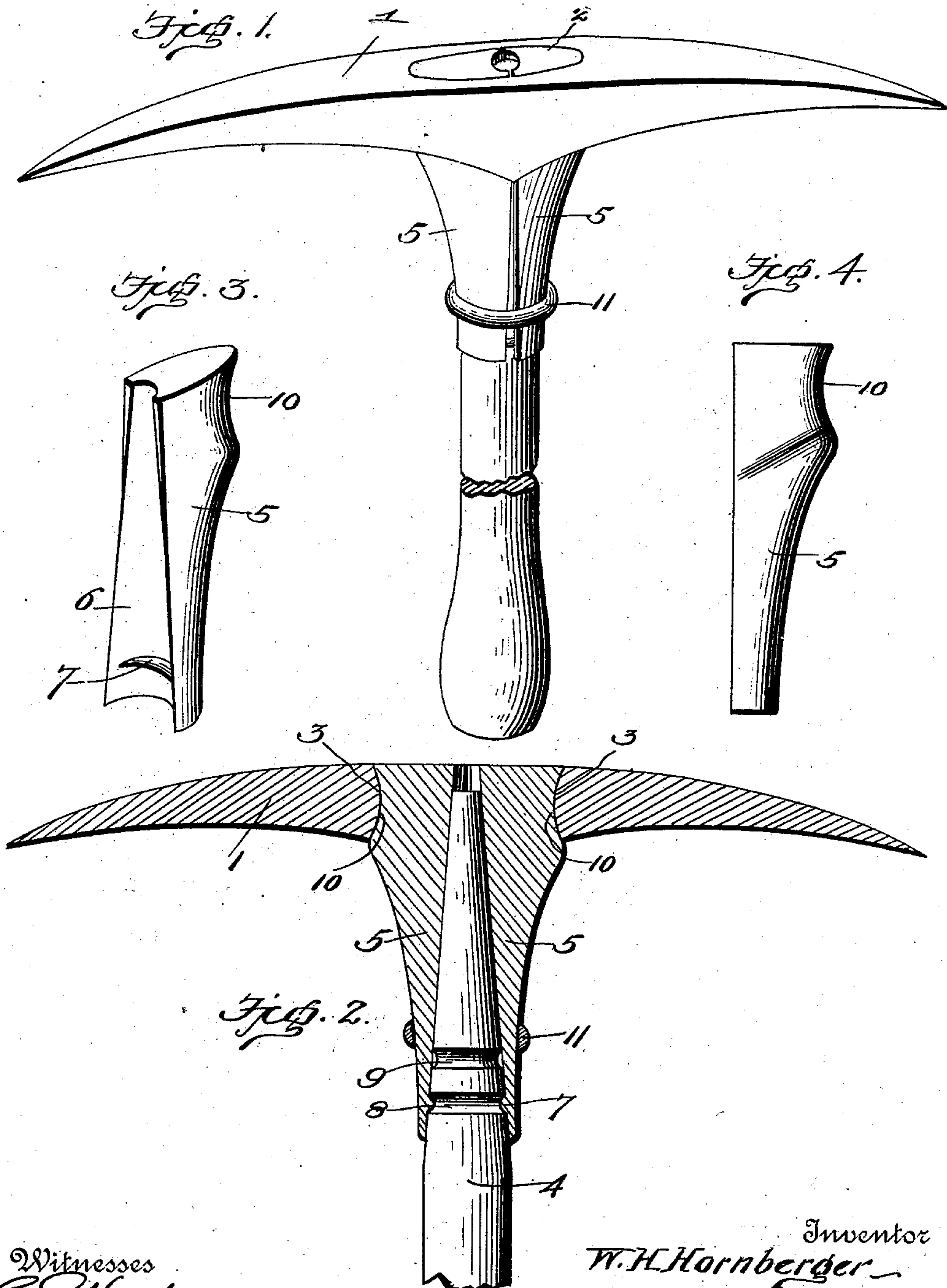


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 TOOL HANDLE.  
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915,675.

Patented Mar. 16, 1909.



Witnesses  
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# UNITED STATES PATENT OFFICE.

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## TOOL-HANDLE.

No. 915,675.

Specification of Letters Patent.

Patented March 16, 1909.

Application filed March 19, 1908. Serial No. 422,163.

*To all whom it may concern:*

Be it known that I, WALLACE H. HORNBERGER, a citizen of the United States, residing at Doylestown, in the county of Wayne and State of Ohio, have invented certain new and useful Improvements in Tool-Handles; and I do declare the following to be a full, clear, and exact description of the invention such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to tool handles and particularly to handles for picks, axes, and other similar tools.

The object of the invention is to provide a device of this character whereby the handle may be easily attached in the eye of the tool and firmly held in position without wedges or other devices, so that it may be removed and replaced in short order.

A further object of the invention is to provide an attaching device for pick handles which will reinforce the structure.

With these and other objects in view, the invention consists of certain novel features of construction, combination and arrangement of parts as will be described and particularly pointed out in the appended claim.

In the accompanying drawings, Figure 1 is a perspective view of the device applied to a pick; Fig. 2 is a longitudinal sectional view; Fig. 3 is a detail perspective view of one of the attaching pieces; and Fig. 4 is a side elevation of the same.

Referring more especially to the drawings, 1 represents the pick blade having passing centrally therethrough the eye, 2, preferably oval in shape, as is customary, with its major axes in line with the direction of length of the pick. The end walls of the eye are preferably slightly convex, as at 3, for a purpose which will be hereinafter described.

The attaching plates which surround the handle, 4, are shown at 5, and preferably taper from their lower ends to their upper eye-engaging ends. The inner side has a groove, 6, gradually increasing in depth from its upper point to the lower edge, where, adjacent the edge, it is provided with a ridge, 7, adapted to engage one of the annular grooves, 8 and 9 formed upon the handle. The upper

eye-engaging ends of the clamping plate, 5, are preferably made slightly concave, as at 10, to engage the convex end walls of the eye, 2. The handle is made conical and of such length that it will enter the aperture formed by the two mated clamping plates and wedge them apart so that the concave edges of each will tightly engage the end convex walls 3 of the eye, 2.

A suitable clamping member, 11, surrounds the lower reduced ends of the clamping plates, 5, so as to hold them in position. This member may be provided with a friction surface upon its interior periphery, or it may be clamped thereon in any suitable manner.

From the foregoing description, taken in connection with the accompanying drawings, the construction and operation of the invention will be readily understood without requiring a more extended explanation.

Various changes in the form, proportion and the minor details of construction may be resorted to without departing from the spirit or sacrificing any of the advantages of the invention as defined in the appended claim.

Having thus described my invention, what I claim as new, and desire to secure by Letters-Patent, is:

In a device of the class described, the combination with a tool having an eye therein with convex end walls, of a pair of tapering plates having concave ends and a half circle groove adapted when in place within the tool to form a circular tapering handle-receiving aperture, a handle having a conical end adapted to enter said aperture to wedge the clamping plates apart with their concave ends in engagement with the convex walls of the tool, said handle having a plurality of grooves around its body within the conical portion, a ridge carried by each of said plates for engaging said grooves to hold the handle within the plates, and a removable ring to clamp the plates on the handle.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

WALLACE H. HORNBERGER.

Witnesses:

ANNA BERNARD,  
SENEY A. DECKER.