

(No Model.)

F. W. WEISS.

TOOL HOLDER.

No. 269,755.

Patented Dec. 26, 1882.

Fig. 1.

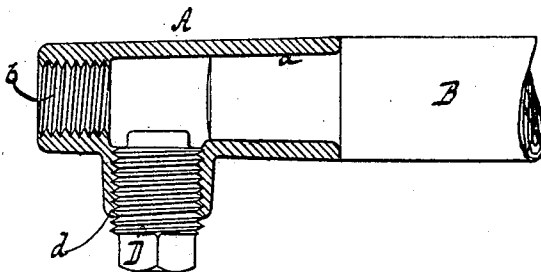


Fig. 2.

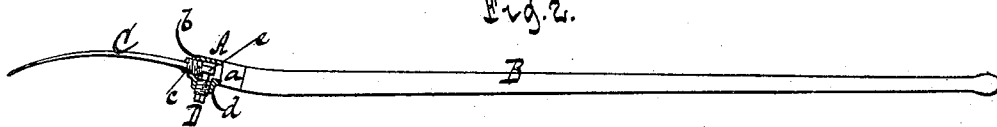
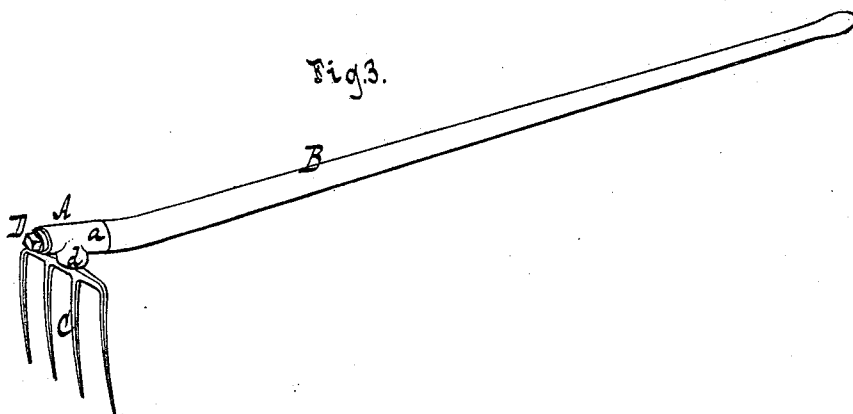


Fig. 3.



WITNESSES:

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FREDERICK W. WEISS, OF MOUNT VERNON, NEW YORK, ASSIGNOR, BY
MESNE ASSIGNMENTS, TO CAROLINE WEISS, OF SAME PLACE.

TOOL-HOLDER.

SPECIFICATION forming part of Letters Patent No. 269,755, dated December 26, 1882.

Application filed July 6, 1882. (No model.)

To all whom it may concern:

Be it known that I, FREDERICK W. WEISS, a citizen of the United States, residing at Mount Vernon, in the county of Westchester and State of New York, have invented new and useful Improvements in Tool-Holders, of which the following is a specification.

This invention relates to improvements in tool-holders; and it consists of a hollow head, of suitable material, provided with a socket to receive a handle, a screw-socket to receive the shank of a tool, and an internally-screw-threaded socket containing a screw-threaded key, the inner end of which is constructed and arranged to engage the shank of a tool and hold it in proper position for working.

It also consists in forming the head of a tool-holder with sockets to receive the handle and the shank of a tool, with a socket intermediate of the handle and the tool-socket for receiving a key, said key-receiving socket and the key by its adjustment adapted to bind against or engage the shank of the tool and hold it in position.

In the accompanying drawings, Figure 1 represents a longitudinal central section of my tool-holder. Fig. 2 is a sectional side view of the same when the handle and the tool are fastened therein. Fig. 3 is a similar view of the same, showing the tool in a different position.

Similar letters indicate corresponding parts.

In the drawings, the letter A designates a hollow head, which is made of malleable iron or any other suitable material. In one end of this head is a socket, *a*, for the reception of the handle B. This handle may be made of wood or any other suitable material, and may be straight or curved, according to the nature of the tool with which it is to be used. In the opposite end of the head A is a socket, *b*, provided with an internal screw-thread, and on the shank of the tool C is formed a screw-thread, *c*, which fits the screw-thread in the socket *b*. In the side of the head A is an additional socket, *d*, of the same size as the socket *b*, and provided with an additional screw-thread like that in the socket *b*. The socket *d* opens into the socket *b*, and if the tool is inserted into the last-named socket a key, D, is screwed into the socket *d*. The inner end, *e*, of the shank of the tool is flat, and when the tool has been screwed into the socket *b*, as

shown in Fig. 2, it is so adjusted that the inner end of its shank presents a flat surface to the key D. If this key is screwed in, therefore, it bears firmly against one of the flat surfaces on the shank of the tool and the latter is securely locked in position.

Instead of securing the tool in the socket *b*, as shown in Fig. 2, it may be secured in the socket *d*, and in this case the key D is screwed into the socket *b*, as shown in Fig. 3. By this arrangement I am enabled to use the same head for a great variety of tools, and the same tool may be used, for instance, in one position as a hay or manure fork and in another position as a weeding-hoe; or, if the tool consists of a flat blade, it may be used in one position as a spade and in the other position as a hoe, and so on.

If desired, an additional socket may be provided directly opposite to the socket *d*, so that two keys may be brought to bear upon the shank of the tool if the same is inserted into the socket *b*.

In the example shown in the drawings the head A is made in one piece; but, if desired, said head may be constructed in several pieces united by screw-threads.

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

1. A tool-holder consisting of a hollow head having a socket to receive a handle, a screw-threaded socket to receive the tool-shank, and an additional screw-threaded socket containing a threaded key, the inner end of which is arranged to engage the tool-shank and hold it in proper position, substantially as described.

2. The combination, substantially as herein described, of the head A, constructed with the sockets *a*, *b*, and *d*, the handle B, the tool C, having a screw-threaded shank, *c*, and a plane projection in rear thereof, and the adjustable screw-key D, having its inner end arranged to bind against the plane projection on the tool-shank, and thereby retain the tool in a fixed position, substantially as described.

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

FREDERICK W. WEISS. [L. s.]

Witnesses:

W. HAUFF,

E. F. KASTENHUBER.