(No Model.)

F. W. WEISS.

TOOL HOLDER.

No. 338,652. Patented Mar. 23, 1886.

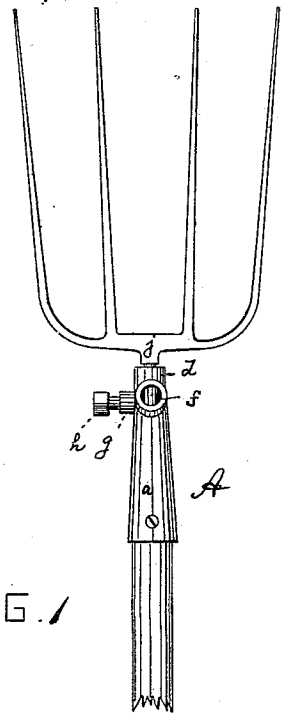


FIG. 1

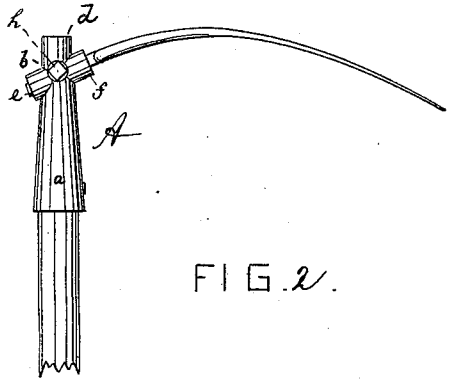
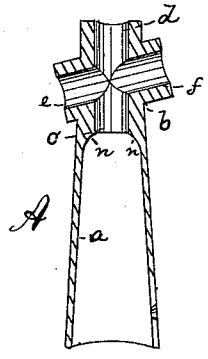


FIG. 2

FIG. 6

FIG. 4



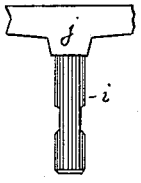


FIG. 5

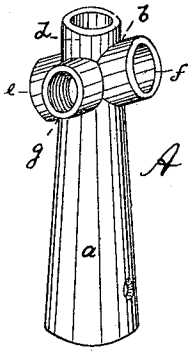
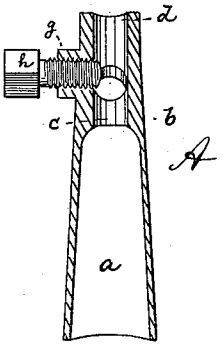


FIG. 3



Witnesses
Wm. A. Lowe
Robt. H. Roy.

Inventor
Frederick W. Weiss
per Attorneys Roeder & Briesen

N. PETERS. Photo-Lithographer, Washington, D. C.

UNITED STATES PATENT OFFICE.

FREDERICK W. WEISS, OF MOUNT VERNON, NEW YORK, ASSIGNOR TO CAROLINA WEISS, OF SAME PLACE.

TOOL-HOLDER.

SPECIFICATION forming part of Letters Patent No. 338,652, dated March 23, 1886.

Application filed December 19, 1885. Serial No. 186,152. (No model.)

To all whom it may concern:

Be it known that I, FREDERICK W. WEISS, of Mount Vernon, Westchester county, State of New York, have invented a new and Improved Tool-Holder, of which the following specification is a full, clear, and exact description.

This invention relates to a socketed tool-holder adapted to be attached to the end of a handle, and to receive the tangs of tools of various kinds, such as spades, shovels, picks, and the like.

The invention consists in the various features of improvement hereinafter more fully pointed out.

In the accompauying drawings, Figure 1 is a side view of my improved tool-holder. Fig. 2 is a similar view at right angles to Fig. 1. Fig. 3 is a longitudinal section through Fig. 1; Fig. 4, a similar section through Fig. 2. Fig. 5 is a perspective view of the device, and Fig. 6 shows the notched end of a tang adapted to be received by the tool-holder.

The letter A represents my improved tool-holder, made of malleable iron or other suitable material. It is composed of a hollow tapering sleeve or socket, *a*, for the reception of a wooden handle, and terminating in a head, *b*, into which four channels, *c d e f*, are made. The channels *c d* are in line with each other and with the sleeve *a*. They are of equal diameter, but of less diameter than the bore of the sleeve, so that a shoulder, *n*, is formed at the junction between channel *c* and socket *a*, as shown in Fig. 4, against which the end of the handle abuts. The channels *e f* are also in line with one another, and are preferably of the same bore as the channels *c d*. The channels *e f* cross the channels *c d* at an obtuse angle, as shown.

g is an internally-screw-threaded socket extending through head *b* at right angles to channels *c d e f*, and opening at the point of intersection of such channels. This socket is adapted for the reception of a screw-threaded bolt or key, *h*, which, when properly inserted, projects with its inner end into the space formed at the crossing of channels *c d e f*, Fig. 3.

In use the tang *i* of a tool, *j*, is inserted into socket *d* or into socket *f*, and the key *h* is then turned down to bear upon the center of the tang and lock the tool in place. The tang should be equal in length to the combined lengths of the channels *c d* or of the channels *e f*. Thus, when the tang is inserted into channel *d* its end will project into the channel *c*, while when it is inserted into channel *f* its end will project into channel *e*. The channels *e c* thus serve to steady the tool, and to permit the key *h* to bear upon the center of the tang, which is preferably notched, as shown in Fig. 6, to prevent the tool from revolving.

By the use of my improved tool-holder I am thus enabled to attach tools of different character to the handle, and to attach them either in line with the same or at an angle therefrom. Thus the handle may be used for a variety of purposes.

The channels *c d e f* may have a circular or angular bore, as may be desired.

I claim as my invention—

1. The combination, in an agricultural implement, of sleeve *a* with head *b*, having channels *c d e f*, that cross each other, and with the screw-threaded socket *g*, arranged at right angles to such channels for the reception of key *h*, substantially as and for the purpose specified.

2. The combination, in an agricultural implement, of sleeve *a* with head *b*, having channels *c d e f* crossing each other at an obtuse angle, and with screw-threaded sockets *g* and key *h*, substantially as specified.

3. The combination, in an agricultural implement, of sleeve *a*, and of head *b*, having crossing channels, and socket *g*, with key *h*, and with tang *i*, having notches for engagement with said key, substantially as specified.

FREDERICK W. WEISS.

Witnesses:
F. V. BRIESEN,
ROBT. H. ROY.