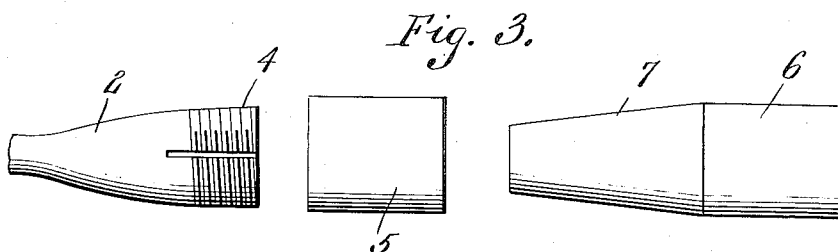
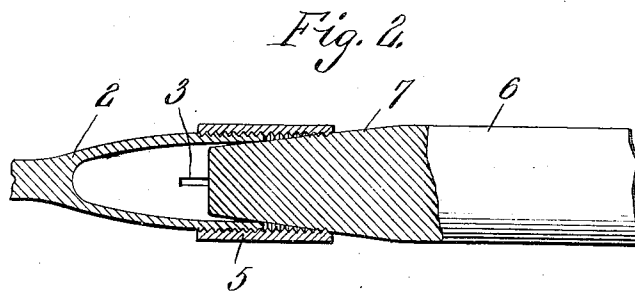
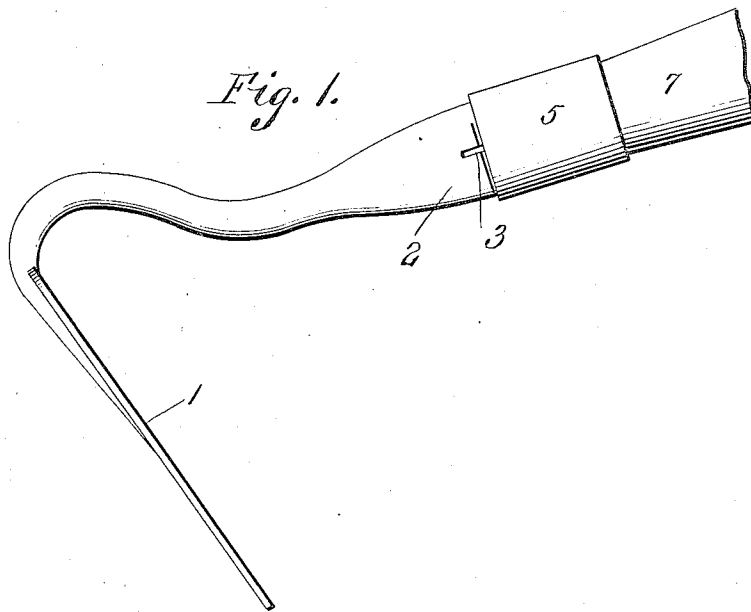


No. 852,731.

PATENTED MAY 7, 1907.

O. W. LUNDBERG.
TOOL HANDLE FASTENER.
APPLICATION FILED OCT. 27, 1906.



Witnesses

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UNITED STATES PATENT OFFICE.

OSCAR W. LUNDBERG, OF LE MARS, IOWA.

TOOL-HANDLE FASTENER.

No. 852,731.

Specification of Letters Patent.

Patented May 7, 1907.

Application filed October 27, 1906. Serial No. 340,868.

To all whom it may concern:

Be it known that I, OSCAR W. LUNDBERG, a citizen of the United States, and a resident of Le Mars, in the county of Plymouth and State of Iowa, have invented certain new and useful Improvements in Tool-Handle Fasteners, of which the following is a specification.

This invention relates to tool handle fasteners for rakes, forks, hoes, shovels, spades, trowels, chisels, fish poles or rods, as well as any and all other and different tools where handles can be fastened and held in split socket, or by ferrule, and clamping ring, or sleeve, surrounding such split socket, or ferrule, without regard to the size, length or shape of the tool or handle to be fastened thereto.

In this type of fasteners, it is customary to depend solely on the friction between the socket and the handle, or between the ferrule and the handle, to hold the handle in the socket or in the ferrule, the friction between these parts being increased by the clamping ring, or sleeve. However, the handle when made of wood soon works loose, especially when the tool is subjected to shocks and strains.

It is an object of my invention to provide an inexpensive fastener of this type in which a stronger, more positive and convenient connection, or coupling between the tool and its handle is provided, or effected, without the use of rivets, pins, or other device through the handle, socket, ferrule, or coupling.

Other and further objects will appear in the following description and will be more particularly pointed out in the specified claims.

In the drawings: Figure 1 is a side elevation of my invention employed on a hoe. Fig. 2 is a vertical section, and Fig. 3 is a detached side view of the parts.

Referring more particularly to the drawing, 1 indicates the tool, which for the purpose of illustration is a hoe, but which may be any other suitable tool, whether such tool be permanently attached to the split socket, or ferrule, into which the handle is fastened by the clamping ring, or sleeve, or whether such tool be fastened, or attached, to the handle by inserting a spike, spur, prong, or other device into the end of the handle, with

split socket, or split ferrule, independent thereof, and outside of the handle, over which is the clamping ring or sleeve. This tool has secured thereto in any suitable manner, a socket 2, which, in the drawing, is tapered both internally and externally from its open end, but such socket, or ferrule, need not be so tapered when used for fastening other tools to handles. The walls of the split socket, or split ferrule, are split longitudinally at 3, and externally the split socket, or split ferrule, is provided with screw threads, 4.

Working on the exterior threads of the socket, or ferrule, is an internally threaded clamping ring, or sleeve 5, which clamping ring, or sleeve, may be any size or length, and is intended and adapted to travel on the socket, or ferrule, and beyond the open end thereof sufficient distance to securely fasten and hold the handle in the split socket, or split ferrule.

The handle 6, illustrated in the drawing, is preferably formed of wood, but may be of any other material, and has one end tapered as at 7, but the handle need not be tapered. My invention may be and is intended to be used on handles which do not taper as well as on handles which taper.

The clamping ring, or sleeve, is moved as far as may be necessary toward the base of the socket, or ferrule, so as to permit the walls of the split socket, or split ferrule, to expand. The handle 7 is then fitted within the socket, or ferrule, by being driven or otherwise forced therein. The clamping ring, or sleeve, is then turned so that a portion thereof passes beyond the end of the split socket, or split ferrule, and onto the handle in which the clamping ring, or sleeve, cuts threads, thus establishing a positive and convenient connection, or coupling, between the clamping ring, or sleeve, and the handle, and, at the same time, and as the clamping ring or sleeve moves toward the end of the socket, or ferrule, the walls of the split socket, or split ferrule, are pressed tightly against that portion of the handle that fits within such socket, or such ferrule.

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

1. The combination of a split socket having external threads, and a clamping ring

having internal threads and movable on the socket toward the receiving end of the socket to produce a clamping action, and beyond the receiving end to engage a handle and
5 hold it in the socket.

2. The combination of a split socket having external threads and tapering from its receiving end, of a clamping ring having internal threads working on the threaded socket

and movable beyond the receiving end of the socket to engage a handle in the socket. 15

The foregoing specification signed at Le Mars, Iowa, this 29th day of September, 1906.

OSCAR W. LUNDBERG.

In presence of two witnesses—

T. M. ZINK,

MARGRETTA T. ZINK.