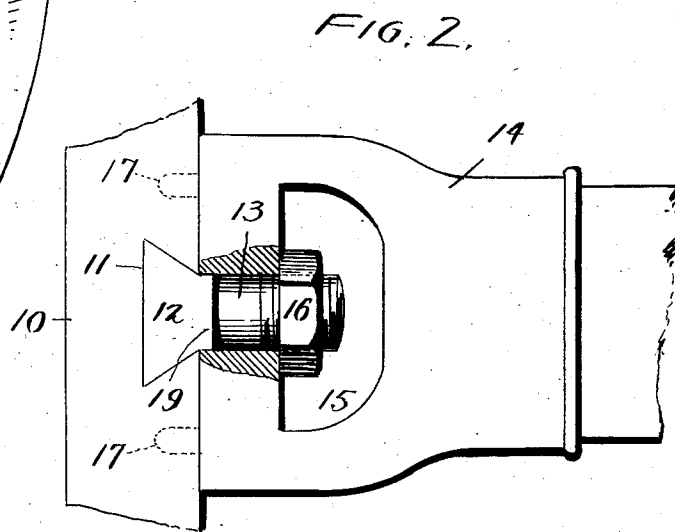
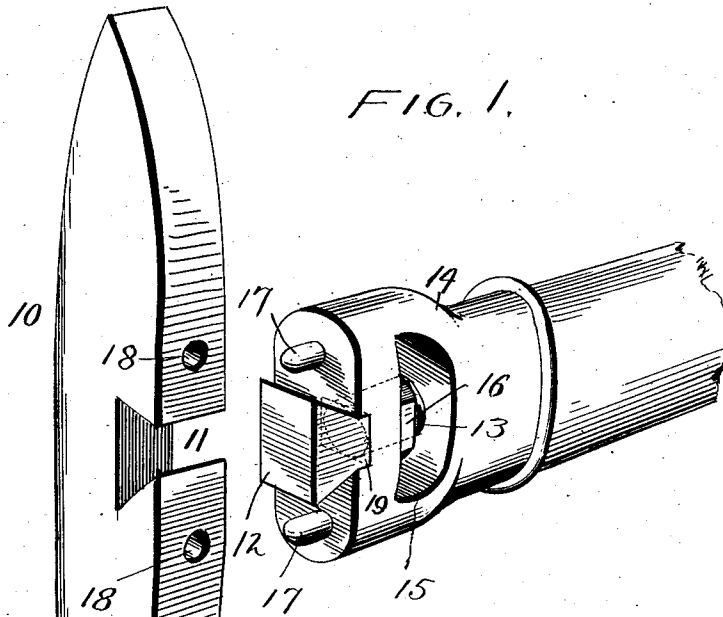


E. L. RAY.
HANDLE FASTENING FOR PICKS AND OTHER TOOLS.
APPLICATION FILED MAR. 12, 1912.

1,048,096.

Patented Dec. 24, 1912.



WITNESSES

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HANDLE-FASTENING FOR PICKS AND OTHER TOOLS.

1,048,096.

Specification of Letters Patent.

Patented Dec. 24, 1912.

Application filed March 12, 1912. Serial No. 683,281.

To all whom it may concern:

Be it known that I, EDWARD L. RAY, a citizen of the United States, residing at Agency, in the county of Wapello and State of Iowa, have invented certain new and useful Improvements in Handle-Fastenings for Picks and other Tools, and do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

My invention relates to fastenings for the handles of picks and other tools presenting like conditions of structure and use, and my object is to provide a detachable fastening which while simple and readily and quickly operable, will securely unite tool and handle; and to this end my invention consists in the tool handle fastening constructed substantially as hereinafter specified.

In the drawings—Figure 1 is a perspective view of a pick handle fastening embodying my invention; the handle and pick being shown separated; and Fig. 2 is a side elevation thereof, but with the parts connected.

I show my invention applied to the case of a pick because it is especially adapted thereto, and in the drawing the pick 10 is of usual general form. Instead of the usual eye, there is provided a dove-tail slot 11 that widens from its outer end inward, that receives a correspondingly shaped head 12 on a bolt 13 applied to a handle head or socket 14 which is preferably of cast metal, and to which the usual wooden handle is applied. It will be observed that the bolt head is wholly within the body of the pick so that objectionable projection of the bolt head beyond the surface of the pick where it is apt to strike against objects and be worn or injured, is avoided and there are no recesses or cavities in the pick unfilled that tend to weaken the pick, but the slot 11 is wholly occupied or filled by the bolt head 12 so that a rigid, solid structure results.

The shank of the bolt 13 passes through a hole in the head 14, and emerges into a slot or chamber 15 formed in the head at the rear end of the hole, for the accommodation of a nut 16, and a turning tool therefor. The contacting sides of pick slot 11 and bolt head 12 are flat and hence oppose any turning tendency of the pick on its handle, but preferably, the handle head 14 is provided on its face next the pick with lugs or dowel pins 17 on opposite sides of the bolt, which enter holes 18 in the pick and thus the connection is stiffened. The rigidity and security of the fastening is also increased by providing the bolt with a square shoulder 19 that fits a slot or depression with flat sides in the head 14.

It will be seen that the work of assembly and separation of the parts is very simple, since it involves little more than turning the nut.

Having thus described my invention what I claim is—

A fastening for tool handles, comprising a dove-tailed slot in the tool, that opens out to one side of the tool, the tool being solid from the wider end of the slot to the outer face of the tool, a handle member, a bolt having a flaring head that engages said slot, the contacting sides of the head and slot being flat, a handle member having a hole through which the bolt passes and a chamber at the inner end of the hole, the hole being wholly within the body of the handle member, a nut on the bolt where it extends into said chamber, coacting dowel pins and holes, on the tool and handle member above and below the bolt head, and a shoulder at the narrow end of the bolt head fitting a depression in the handle member.

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

EDWARD LINDEN RAY.

Witnesses:

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G. L. NYE.