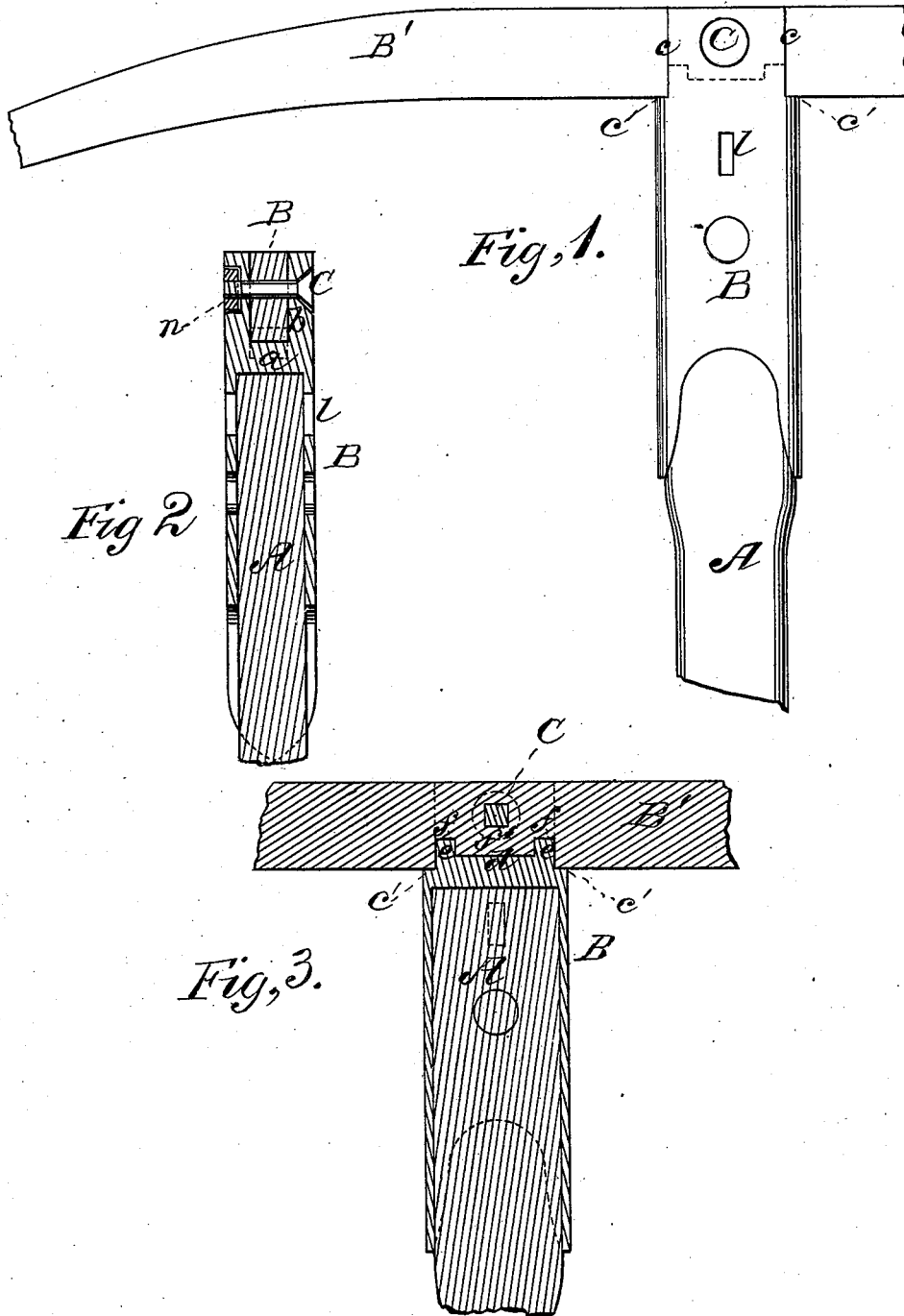


J. BARR.
Tool-Handle.

No. 211,544.

Patented Jan. 21, 1879.



WITNESSES
Villette Anderson
A. J. Masi.

INVENTOR
John Barr,
by E. W. Anderson,
his ATTORNEY

UNITED STATES PATENT OFFICE.

JOHN BARR, OF BRIDGEPORT, CONNECTICUT.

IMPROVEMENT IN TOOL-HANDLES.

Specification forming part of Letters Patent No. **211,544**, dated January 21, 1879; application filed November 2, 1878.

To all whom it may concern:

Be it known that I, JOHN BARR, of Bridgeport, in the county of Fairfield and State of Connecticut, have invented a new and valuable Improvement in Bolt-Fastened Pick-Axes; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation 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.

Figure 1 of the drawings is a representation of a side view of my improved pick. Fig. 2 is a transverse section of the pick and socket, and Fig. 3 is a longitudinal section taken through the pick.

This invention has relation to means for securing picks, axes, hoes, and other implements to their handles.

The object of the invention is to devise a reliable arrangement of the parts of the tool that will permit the operative parts to be expeditiously applied to their handles or detached therefrom.

The nature of the invention consists in combining, with a handle having a metallic socket secured thereon, and provided with a deep rectangular recess in its end having parallel holding-ribs, a pick having edge notches adapted to receive said holding-ribs, and a space between said notches fitting snugly between the ribs aforesaid, and a through-bolt extending through the socket and pick and securing them together, as will be hereinafter more fully described.

In the accompanying drawings, the letter A designates the handle of a pick, spade, hoe, or other like implement, terminating in a strong metallic socket, B, into which the handle is inserted and secured by suitable rivets. This socket is oval in cross-section, and that portion of the handle fitting therein is similarly formed. It is also solid at one end, as shown at *a*, and provided with a deep rectangular cleft or recess, *b*, in its longer diameter, and with side rabbets *c*, terminating in a rectangular bearing-shoulder, *c'*.

At the bottom of the cleft or recess *b* is a rectangular depression, *d*, at each end of which is a transverse holding-rib, *e*, of rectangular form also, and of suitable thickness.

The socket thus formed is usually made of malleable iron, and cast complete in all its parts.

B' indicates the pick, having in its concave edge the parallel notches *f*, separated from each other by a space, *f'*, that fits snugly in the depression *d* at the bottom of cleft *b*, while the holding-ribs *e* are received in the notches *f*. In this position the concave edge of the pick rests upon the shoulders *c'* of the socket, as shown in Fig. 2, and an orifice in said pick is in line with perforations in the socket. A bolt, C, extends through these orifices, and a nut, *n*, is applied to the projecting end of said bolt, thus securely fastening the pick to its handle. Usually the socket A has counter-sinks upon its sides, the one to receive the head of the bolt C and the other the nut. There are also other orifices, *l*, in the socket, that serve as points of entrance for wedges should the handle work loose.

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

1. The combination of a socket, B, having the recess or cleft *b* in its solid end, the transverse holding-ribs *e*, and the rabbets *c*, with shoulders *c'*, and a pick having in its edge the parallel notches *f* and through-bolt C, substantially as specified.

2. The combination, with a pick having transverse notches *f*, of a socket, B, cleft to receive said pick, and provided with transverse holding-ribs *e*, designed to enter said notches, and a through-bolt securing the pick to its socket, substantially as specified.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

JOHN BARR.

Witnesses:

WILLIAM CROUCH,
GEO. W. WARNER.