J. E. LOVELL.

FILE HANDLE.

APPLICATION FILED APR. 18, 1919.

1,339,658. **Patented May 11, 1920.**

Fig. 1.

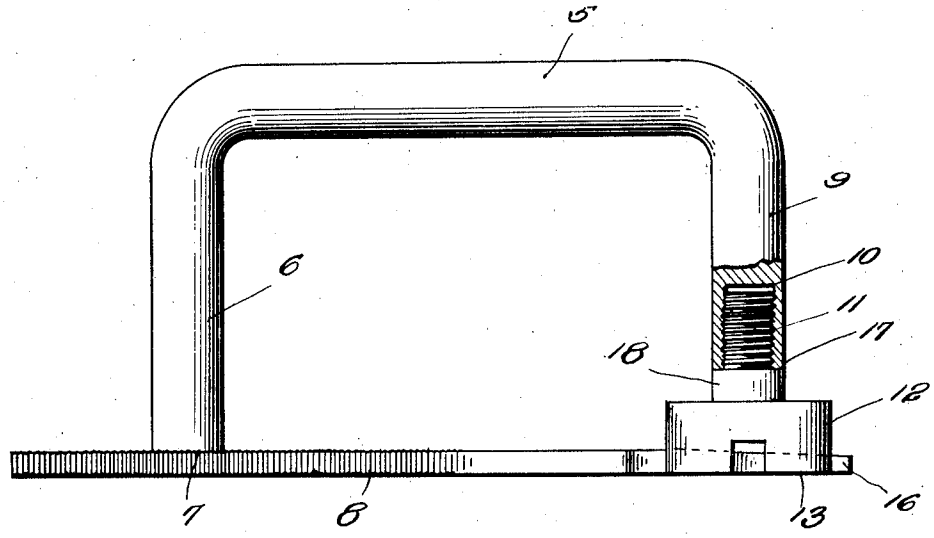
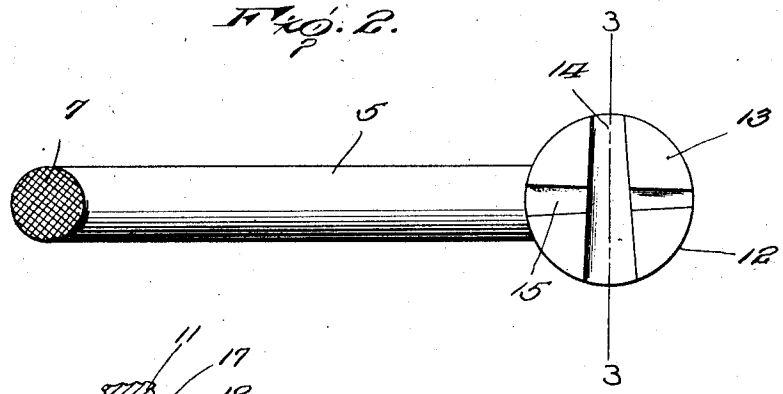


Fig. 2.



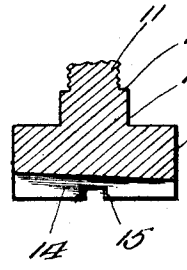


Fig. 3.

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UNITED STATES PATENT OFFICE.

JOHN E. LOVELL, OF HASTINGS, NEBRASKA.

FILE-HANDLE.

1,339,658. Specification of Letters Patent. Patented May 11, 1920.

Application filed April 18, 1919. Serial No. 290,915.

To all whom it may concern:

Be it known that I, JOHN E. LOVELL, a citizen of the United States, residing at Hastings, in the county of Adams and State of Nebraska, have invented certain new and useful Improvements in File-Handles, of which the following is a specification.

This invention relates to handles for files, rasps and similar tools and has for its object the provision of a comparatively simple and thoroughly efficient device of this character capable of being quickly attached to or detached from a file and which when in position thereon will afford a convenient hand hold or grip and permit use of the file for various purposes without danger of injury to the hands of the operator.

The invention further aims to provide a file holder including a handle having a head mounted for rotation on one end thereof and provided with intersecting seats so that by rotating said head with respect to the handle the holder may be adapted for application to files of different sizes.

A still further object is generally to improve this class of devices so as to increase their utility, durability and efficiency.

In the accompanying drawings:

Figure 1 is a side elevation partly in section of a file holder or handle embodying the present invention;

Fig. 2 is a bottom plan view thereof;

Fig. 3 is a detail vertical sectional view of the head detached taken on the line 3—3 of Fig. 2 and looking in the direction of the arrows.

Corresponding and like parts are referred to in the following description and indicated in all the views of the drawings by the same reference characters.

The improved holder forming the subject matter of the present invention comprises a substantially U-shaped handle 5 preferably circular in cross section as shown and having its long arm 6 provided with a flat bearing surface 7 for contact with the upper surface of a file or rasp indicated at 8. The short arm 9 of the handle is provided with a threaded socket 10 for engagement with a correspondingly threaded extension 11 on a revolving head 12.

The head 12 is preferably circular in shape and provided with a flat lower surface 13 having intersecting slots or seats 14 and 15 formed therein for the reception of the reduced shank 16 of the file as best shown in Fig. 1 of the drawings. The seats 14 and 15 are preferably wedge shaped to accommodate the shank 16 of the file and said seats open through the opposite edges of the head so as to permit the shank 16 of the file to extend through said head when the holder is positioned on the file. The seat 14 is preferably of greater depth than the seat 15 and the bottom wall of each seat is preferably inclined or tapered to conform to the inclination of the upper edge of the shank of the file. By forming the head in this manner the holder may be readily applied to files or rasps of different sizes. Surrounding the threaded extension 11 is an annular shoulder 17 which abuts against the short end of the arm 9, and arranged immediately below said shoulder is a smooth portion 18 preferably of the same diameter as the arm 9 and forming a continuation thereof.

In operation the shank 16 of the file is inserted in one of the seats in the head and given a slight tap in the direction of the length of the file which causes the walls of the shank to frictionally engage the adjacent walls of the seat and prevent displacement of said file. As the handle 5 is spaced from the upper surface of the file liability of the hands of the operator becoming cut or otherwise lacerated is reduced to a minimum. As the seats 14 and 15 are arranged at substantially right angles to each other it follows that by turning the head 12 one quarter revolution either seat may be brought into longitudinal alinement with the handle 5 to accommodate the shank of the particular file on which the holder is to be used.

While the bottom walls of the seats 14 and 15 are preferably inclined or beveled to conform to the inclination of the shank of a file it will, of course, be understood that said walls may be disposed parallel with the lower face 13 of the head without departing from the spirit of the invention.

Having thus described the invention, what is claimed as new is:

1. A file holder including a longitudinally arched handle and a head mounted for rotation on one end of the handle and provided with intersecting seats of different sizes for the reception of the shank of a file.

2. A file holder including a substantially U-shaped handle having arms of different

lengths, and a head mounted for rotation on the short arm of the handle and having its lower face provided with intersecting wedge shaped seats of different sizes for the reception of the shank of a file.

3. A file holder including a substantially U-shaped handle having arms of different lengths, the short arm of the handle being provided with a threaded socket, and a rotary head having a threaded extension engaging the threads of the socket and having its lower face flat and provided with intersecting seats of different sizes for the reception of the shank of a file.

4. A file holder including a substantially U-shaped handle having arms of different lengths, and a head mounted for turning movement on the short arm of the handle and having its lower face flat and provided with intersecting wedge-shaped seats of different depths for the reception of the adjacent end of a file.

5. A file holder including a substantially U-shaped handle having arms of different lengths, the lower end of the short arm of the handle being provided with a threaded socket, a substantially circular head having a threaded extension engaging the threaded walls of the socket, the lower face of the head being provided with intersecting wedge-shaped seats of different sizes extending entirely therethrough and disposed at substantially right angles to each other for the reception of the adjacent end of a file.

6. A file holder including a handle having spaced arms of different lengths, a head mounted for turning movement on the short arm of the handle and having a flat lower face provided with intersecting wedge-shaped seats of different sizes extending entirely through the head and disposed at substantially right angles to each other, for the reception of the shank of a file, the bottom walls of the seats being inclined to conform to the inclination of the shank of the file.

In testimony whereof I affix my signature.

JOHN E. LOVELL. [L. S.]