Nov. 17, 1925. 1,562,306

G. DECHEFF

FILE HOLDER

Filed Jan. 31, 1925

Fig. 1.

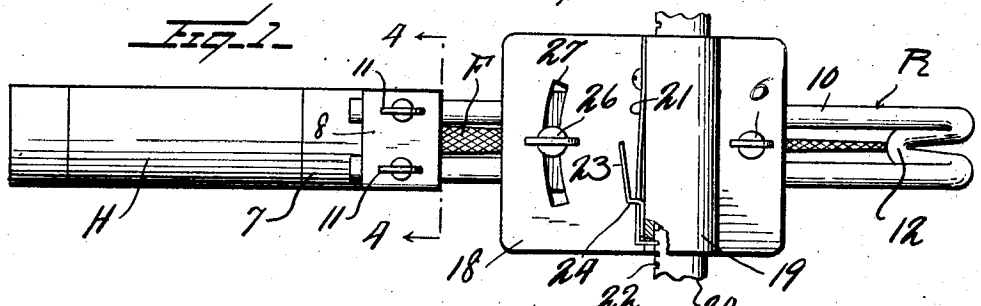


Fig. 2.

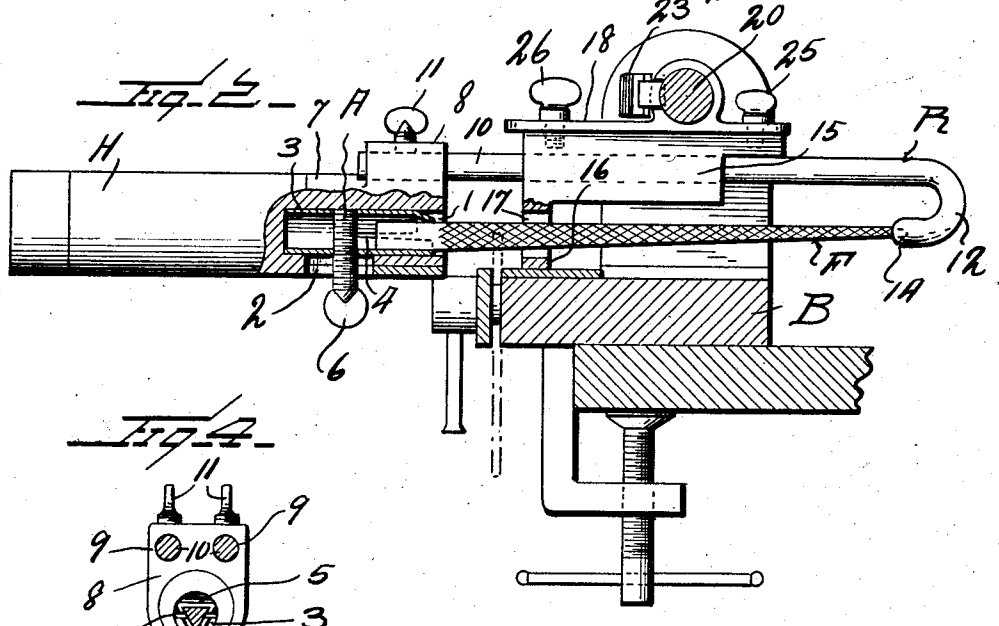
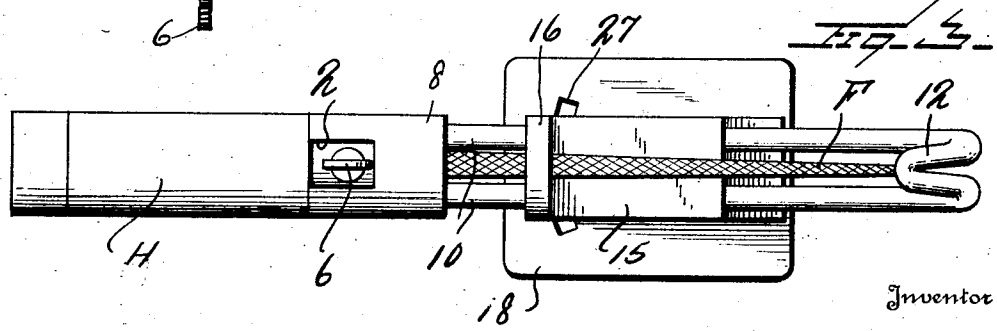


Fig. 4.

Fig. 3.



Inventor

G. Decheff

By Watson E. Coleman

Attorney

Patented Nov. 17, 1925. 1,562,306

UNITED STATES PATENT OFFICE.

GEORGE DECHEFF, OF DETROIT, MICHIGAN.

FILE HOLDER.

Application filed January 31, 1925. Serial No. 6,114.

To all whom it may concern:

Be it known that I, GEORGE DECHEFF, a citizen of the United States, residing at Detroit, in the county of Wayne and State of Michigan, have invented certain new and useful Improvements in File Holders, of which the following is a specification, reference being had to the accompanying drawings.

This invention relates to certain improvements in file holders and has relation more particularly to a device of this general character especially designed and adapted for use in the sharpening of saws and it is an object of the invention to provide a holder with novel and improved means whereby the file may be effectively held thereby and in a manner to permit the desired reciprocation of the file to effect the desired working operation.

Another object of the invention is to provide a holder of this general character embodying novel and improved means whereby the file may be turned to adjust the faces thereof as may be required by the necessities of practice.

An additional object of the invention is to provide a novel and improved device of this general character having means whereby the longitudinal axis of the file may be adjusted to various angles to facilitate the filing or sharpening of the teeth of a saw.

The invention consists in the details of construction and in the combination and arrangement of the several parts of my improved file holder whereby certain important advantages are attained and the device rendered simpler, less expensive and otherwise more convenient and advantageous for use, as will be hereinafter more fully set forth.

The novel features of my invention will hereinafter be definitely claimed.

In order that my invention may be the better understood, I will now proceed to describe the same with reference to the accompanying drawings, wherein:—

Figure 1 is a view in top plan, with a portion broken away, illustrating a file holder constructed in accordance with an embodiment of my invention and in applied position;

Figure 2 is a view partly in section and partly in side elevation of the device as illustrated in Figure 1;

Figure 3 is a bottom plan view of the device as herein disclosed unapplied;

Figure 4 is a sectional view taken substantially on the line 4—4 of Figure 1.

As disclosed in the accompanying drawings, H denotes a handle member of desired configuration and dimensions and which is provided at one end with the elongated socket 1 the inner portion of which having in communication therewith a relatively large opening 2. Substantially snugly fitting within the socket 1 and entirely confined therein is a sleeve 3, the outer portion of which having its side walls slotted, as at 4, so that said slotted end portion may be contracted or expanded. The outer extremity of the sleeve 3 is also formed, as at 5, into substantially a triangular shape in order to snugly engage the butt end portion of the file F. This file F is of the conventional type employed in the filing or sharpening of saw teeth.

Threaded through the sleeve 3 adjacent the inner end portions of the slots 4 is a screw A, said screw also extending outwardly through the opening 2 and provided with the wing head 6. After the butt end of the file F has been inserted within the sleeve, upon requisite rotation of the screw A, the free end portions of the sleeve 3 will be drawn into close and tight contact with said butt end of the file and thereby effectively maintain the same in applied position. When it is desired to turn the file F to adjust the angle of a file face it is only necessary to rotate the sleeve 3 which may be readily done by exerting sufficient pressure upon the head 6 of the screw A. The end of the handle H provided with the socket 1 constitutes the inner end and surrounding said inner portion is a ferrule 7 provided with an outstanding lug 8 through which is disposed a pair of parallel openings 9. Disposed through the openings 9 are the free end portions of the parallel members 10 of a rod R, said inserted end portions of the members 10 being locked in a well known manner by the binding screws 11. The parallel members 10 are of a desired length and have their outer end portions connected by the intermediate member 12 constituting a part of the rod R, said member 12 being disposed downwardly on a predetermined curvature to provide an inwardly disposed support for the outer end

portion of the applied file, said free end of said portion or support 12 being provided with a recess 14 to receive the outer end of the file. Upon loosening the screws 11 the rod R may be readily moved lengthwise to effect the desired engagement with the outer end of the file F after the butt end portion of such file has been properly positioned within the sleeve 3.

The parallel members 10 of the rod R are also freely disposed through a block 15 provided at one end portion with a depending flange 16. This flange 16 has an opening 17 through which the file F is freely directed. This flange 16 constitutes a gauge for limiting the extent of movement of the file with respect to the saw or other work, said flange contacting with the base B of a saw holding frame or other surface.

The block 15 is adapted to underlie a plate 18 of requisite dimensions and configuration, said plate 18 carrying a sleeve 19 adapted to be slidably mounted on a rod 20 of a saw clamp or the like but more particularly the rod of an apparatus described and claimed in my other application for patent executed on even date herewith. This sleeve 19 carries a spring latch 21 adapted to selectively engage within the notches 22 provided in the rod 20 to hold the plate 18 in a fixed position with respect thereto. The latch 21 is disengaged from a notch 22 by the lever 23, said lever 23 having an intermediate offset portion 24 through which the latch 21 is directed.

The block 15 has one end portion thereof pivotally connected with the plate 18 by the screw 25 or the like, while the opposite end portion of the block 15 carries a clamping screw 26 which is disposed through an arcuate slot 27 in the plate 18. By this means, the block 15 may be swung about its pivotal connection 25 to position the longitudinal axis of the file F to a desired angle such angle being maintained by tightening the clamping screw 26.

With a file holder as hereinbefore described, it will be readily understood that the file F may be conveniently applied or removed as required and when in applied position can be effectively reciprocated to properly file or sharpen a saw tooth. It is also to be noted that a face of the file may be adjusted in accordance with the character of the tooth to be filed or sharpened as is also true with respect to the angle in which is disposed the longitudinal axis of the file F. As a particular structure is described and illustrated in my other application hereinbefore referred to it is not believed necessary that a detailed description be herein given as to the particular apparatus with which my holder is adapted to be employed.

From the foregoing description it is thought to be obvious that a file holder constructed in accordance with my invention is particularly well adapted for use by reason of the convenience and facility with which it may be assembled and operated, and it will aslo be obvious that my invention is susceptible of some change and modification without departing from the principles and spirit thereof and for this reason I do not wish to be understood as limiting myself to the precise arrangement and formation of the several parts herein shown in carrying out my invention in practice except as hereinafter claimed.

I claim:—

1. A file holder comprising, in combination, a handle member provided with a socket, a sleeve fitting within said socket and having its outer end portion slotted, a screw threaded through the slotted portion of the sleeve to contract and expand said slotted portion, said sleeve being adapted to receive an end portion of a file, and means carried by the handle member to engage and support the outer end portion of the applied file said means comprising two rod members disposed longitudinally of the handle member and in parallelism to each other, the outer end portions of the rods being connected by an inwardly extending and downwardly disposed intermediate member adapted to receive the outer end of the file, the inner ends of the rods being adjustably secured to openings in the handle member.

2. The combination with a base and a rod operatively supported thereby and spaced therefrom; of a file holder comprising a block slidably supported by the rod, a handle provided with a socket, a rod freely disposed through the block, means for attaching an end portion of the rod to the handle, a file having one end portion engaged within the scoket, the opposite end portion of the rod having an inwardly curved extension with which the opposite end portion of the file is engaged, and a flange depending from the block for contact with the base to limit the swinging movement of the block toward the base.

3. In combination with a base and a rod operatively supported thereby and spaced therefrom, a plate slidably engaged with and having rotating movement about the rod, means for locking the plate at longitudinally spaced positions along said rod against sliding movement, a block underlying the plate, means for pivotally connecting an end portion of the block to the plate, coacting means carried by the opposite end portion of the block and the plate for holding the block against swinging movement about its pivotal connection, a rod freely disposed through the block, a handle member, means for connecting an end portion of the rod to the handle member, the opposite end portion of the rod being pro-

vided with an inwardly disposed extension, a file having one end portion engageable with said extension, and means for securing the opposite end portion of the file to the handle member.

4. A file holder comprising, in combination, a handle member provided with a socket, a sleeve fitting within said socket and having its outer end portion slotted, a screw threaded through the slotted portion of the sleeve to contract or expand said slotted portion, the inserted end portion of said screw contacting with the wall of the socket to provide means for holding the sleeve in a fixed position within the socket, said sleeve being adapted to receive an end portion of a file, and means carried by the handle member to engage and support the outer end portion of the applied file, said sleeve having rotary movement within the socket, the screw threaded through the sleeve providing means for turning the sleeve, said handle member having an opening in communication with the socket through which the screw extends, said opening permitting the screw to impart rotary movement to the sleeve and to move the sleeve lengthwise of the handle member.

5. A file holder comprising, in combination, a handle member, means for connecting an end portion of a file to said handle member, a rod, means for detachably connecting said rod to the handle member, said rod extending in advance of the handle member and provided with an inwardly disposed support for the outer end portion of the file, a block with which the rod is slidably engaged, and a flange depending from the block to provide a gauge, said gauge having an opening through which the file is freely disposed.

In testimony whereof I hereunto affix my signature.

GEORGE DECHEFF.