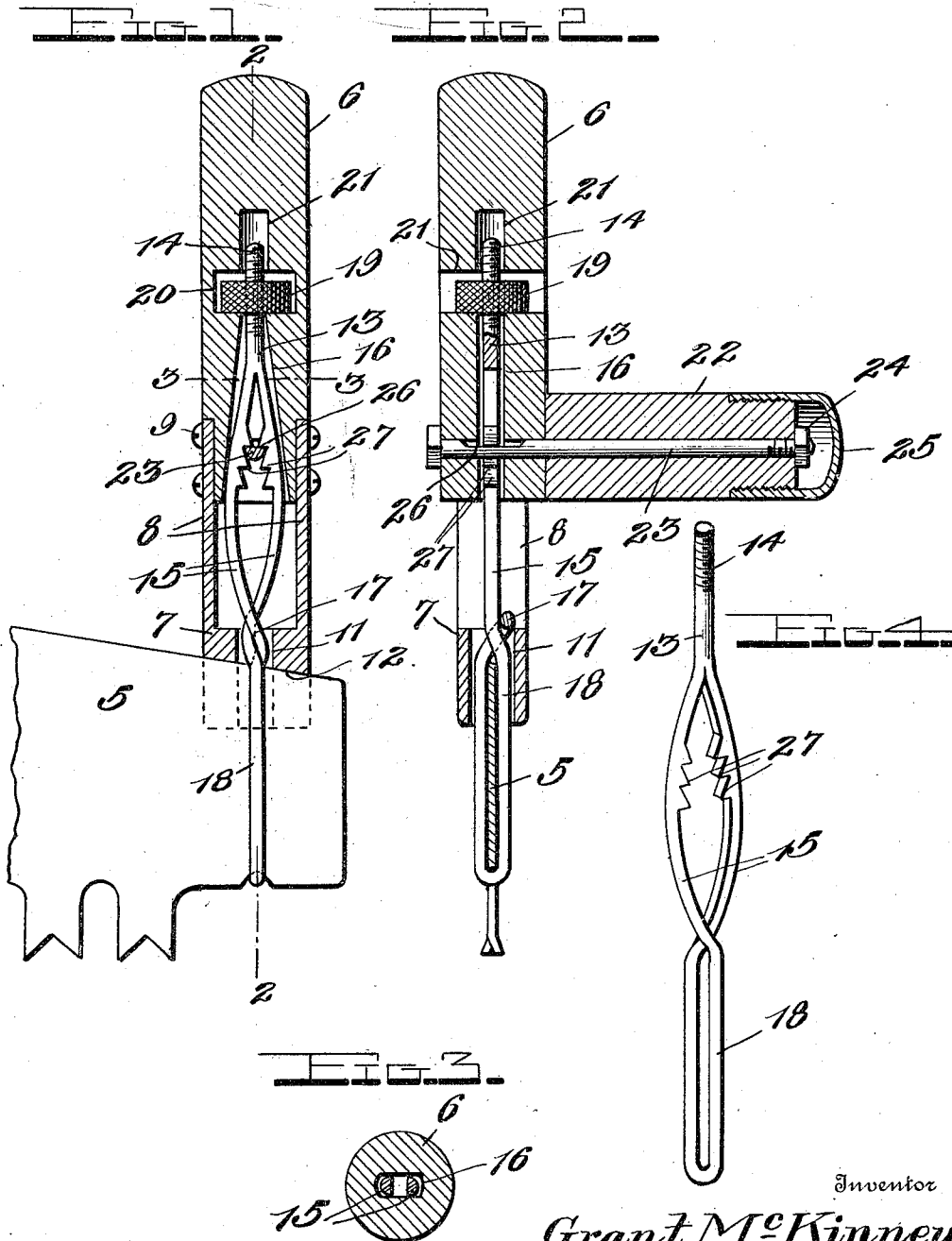


G. McKINNEY.
 SAW HANDLE.
 APPLICATION FILED JUNE 14, 1911.

1,008,658.

Patented Nov. 14, 1911.



Witnesses

Chas. L. Griebauer.
 L. S. Ellis.

Grant McKinney

By Watson E. Coleman,
 Attorney

UNITED STATES PATENT OFFICE.

GRANT MCKINNEY, OF LAKE CARRIER, MISSISSIPPI.

SAW-HANDLE.

1,008,658.

Specification of Letters Patent. Patented Nov. 14, 1911.

Application filed June 14, 1911. Serial No. 633,064.

To all whom it may concern:

Be it known that I, GRANT MCKINNEY, a citizen of the United States, residing at Lake Carrier, in the county of Panola and State of Mississippi, have invented certain new and useful Improvements in Saw-Handles, of which the following is a specification, reference being had to the accompanying drawings.

10 This invention relates to certain new and useful improvements in saw handles and more particularly to handles for saws of that character commonly used in felling trees, the invention having for its primary
15 object the provision of a handle which may be easily and quickly attached to or removed from the end of the saw blade.

Another object of the invention resides in the provision of a main handle and means
20 carried thereby for attachment to the saw blade, a supplementary handle, and means for securing the supplementary handle to the main handle, said securing means co-acting with the attaching means carried by
25 the main handle to prevent loosening of the main handle from the saw blade and also to retain said handles in their assembled condition.

Still another object of my invention is to
30 provide a main handle and means adjustable therein for attaching the same to a saw blade, a supplementary handle extending at right angles to the main handle, a bolt to connect said handles together, said attaching
35 means in the main handle engaging said bolt and holding the same against turning movement to prevent loosening of the supplementary handle.

With the above and other objects in view, 40 the invention consists of the novel features of construction, combination and arrangement of parts hereinafter fully described and claimed, and illustrated in the accompanying drawings, in which—

45 Figure 1 is a plan view of a portion of a saw blade showing my improved handle attached to one end thereof, said handle being illustrated in section; Fig. 2 is a section taken on the line 2—2 of Fig. 1; Fig. 3 is a
50 section taken on the line 3—3 of Fig. 1; and Fig. 4 is a detail perspective view of the attaching member.

Referring more particularly to the drawing 55 5 designates a fragment of a saw blade of that character commonly employed in the

felling of trees. To this blade at each end thereof a suitable operating handle is attached, and the present invention resides in the provision of such a handle which may be easily and quickly attached to or removed
60 from the blade, the attaching means providing an extremely rigid connection so that the saw may be freely manipulated without liability of accidental detachment of the handle therefrom. With the above end in view, I
65 provide the main handle 6 which extends laterally from the saw blade in the plane thereof and is formed of wood of suitable character. To one end of this wood handle, a metal saw engaging member 7 is secured,
70 said member comprising the spaced arms 8 which engage upon opposite sides of the handle 6 and are rigidly secured thereto by means of suitable screws 9. These arms are
75 integrally connected at their outer ends as indicated at 10, such integral connecting portion being provided with a longitudinal opening 11 therethrough. The member 7 is
80 also provided in its outer end with a groove or channel 12 in which the back edge of the saw blade 5 is adapted to be positioned. The saw blade is rigidly retained in the slot 12 by means of the attaching member 13 which
85 is adjustably arranged in the handle 6. The member 13, which is shown in detail in Fig. 4, is formed from a single length of heavy wire which is slightly resilient. The ends
90 of this wire are welded together to form a solid cylindrical shank 14 and from this shank the wire gradually diverges to provide the spaced portions 15. These spaced
95 portions of the wire are movable in a longitudinal bore 16 formed in the handle 6, said bore being slightly flared from its inner to its outer end as clearly shown in Fig. 1.
100 This bore 16 is of rectangular form in cross section and with the opposite side walls thereof, the spaced wires 15 engage as will be more fully disclosed in the following description. The spaced wires 15 extend be-
105 tween the arms 8 of the members 7 and are brought together and twisted upon themselves as indicated at 17, such twisted portions of the wire being disposed in the opening 11 which is provided in the connecting
110 portions 10 of the outer ends of said arms. Beyond the twist 17 of the wire, the same is formed into a loop 18 which is disposed in a plane at right angles to the spaced portions 15 of the wire. In this loop the end of the

saw blade 5 is adapted to be received, said loop engaging the forward edge of the saw blade which is preferably notched to receive the same, said notch being provided therein by means of a file or other suitable instrument.

The saw blade is rigidly secured in the groove or channel 12 in the end of the member 7 by means of a nut 19 which is threaded upon the shank 14 of the attaching member and is disposed in an opening 20 in the handle 6. This nut engages one of the walls of said opening and as it is turned therein, the shank 14 is drawn through the handle and into a cylindrical socket or recess 21 provided therein to receive the same. It will be obvious that as the nut 19 is turned, the attaching member will be drawn into the bore 16 of the handle and the loop 18 of said member will bind the saw blade in the base of the groove 12 of the member 7 and thus rigidly secure said handle to the blade.

In order to provide means whereby the saw blade may be conveniently manipulated, a supplementary handle 22 is secured to the main handle adjacent the blade of the saw. In the use of the saw, this supplementary handle depends from the main handle 6 and is adapted to be firmly grasped by the operator.

A bolt 23 extends vertically through the main handle 6 in a plane at right angles to the attaching member 13 and is disposed between the spaced wire portions 15 thereof. One end of this bolt is provided with the usual head, and upon the other end thereof a nut 24 is threaded, said nut engaging the end of the supplementary handle 22. A cap 25 is threaded upon the lower end of the handle 22 and covers the end of the bolt and said nut so as to protect the same and prevent accidental engagement of the nut which might loosen the same. The upper end of the bolt 23 which passes through the main saw handle 6 is provided with a flat face 26, and with this flattened face of the bolt, the opposed teeth 27 formed upon the spaced wire portions 15 of the attaching member 13 are adapted to engage. The engagement of these teeth with the flattened face of the bolt 23 absolutely prevents any turning movement of the bolt which would loosen the nut 24 thereon and also overcomes all possibility of the detachment of the main handle 6 from the saw blade in the event that the threads upon the shank 14 or the nut 19 should break under the strains incident to the use of the saw. Thus it will be seen that by the cooperation of these parts, each serves to hold the other against movement and retain the main and supplementary handles in their assembled condition and provide an extremely rigid connection of the operating handle to the blade.

From the foregoing it is thought that the construction and operation of my improved saw handle will be readily understood.

The device is comparatively simple, and may be easily and quickly assembled and attached to the blade. After the handle has once been properly secured on the blade, it requires no further adjustment whatever. By providing the detachable handle members, the handle may be removed from the saw and packed separately for shipment or storage, thus greatly economizing in space. The device is also extremely durable, efficient in practical operation and may be manufactured at comparatively small cost.

While I have shown and described the preferred construction and arrangement of the various parts, it will be understood that the invention is susceptible of a great number of minor modifications in form and proportion without departing from the essential feature or sacrificing any of the advantages thereof.

Having thus described the invention what is claimed is:—

1. A saw handle comprising a main handle member, means attached thereto to receive one edge of a saw blade, said handle member having a longitudinal bore, a retaining member longitudinally movable in the bore of the handle and having a loop formed therein to receive the saw blade, means for adjusting said member to rigidly clamp the blade in the receiving means carried by the handle, a supplementary handle member, and means for attaching said supplementary member to the main handle, said means co-acting with the retaining element to hold the same against movement after said element has been adjusted.

2. A saw handle comprising a main handle member, a retaining member consisting of a wire rod having spaced diverging portions, said handle member having a longitudinal bore to receive said rod, said rod also having a loop formed therein to receive the end of a saw blade, means for adjusting the rod in said handle, a supplementary handle member, an attaching bolt extending therethrough and through the main handle, said bolt being disposed between the spaced portions of the wire rod, and means carried by said rod co-acting with the bolt to hold said bolt against turning movement and retain the saw blade in the loop of said rod.

3. A saw handle comprising a main handle member, spaced arms rigidly secured to said handle member and integrally connected at their outer ends, such connecting portion having a longitudinal opening therein and a channel to receive one edge of a saw blade, said handle member having a longitudinal bore, a wire rod movable in the bore of said handle member and extending through the opening in the blade, receiving

member, said rod having a loop formed therein to receive the end of the blade and provided with spaced resilient portions extending into the bore of the handle, said rod also having a threaded portion, a nut engaged thereon, a supplementary handle member, a bolt extending through said supplementary member and through the main handle between the spaced portions of the wire rod, said bolt having a flattened face, and teeth formed on the spaced portions of the rod to engage the flattened face of the bolt and hold the same against turning movement.

4. A saw handle comprising a main handle member, a member rigidly secured to one end of said handle member provided with means to receive one edge of a saw blade, said handle member having a longitudinal bore in one end flared at its outer end, a wire rod having spaced resilient portions ex-

tending into the bore of the handle member and provided with a twist to form a loop in its intermediate portion disposed at right angles to the plane of said spaced portions, said loop receiving the saw blade, a supplementary handle member, means for securing the supplementary member to the main handle, and means for drawing the spaced portions of said wire rod into the bore of the main handle, said spaced portions of the rod having means formed thereon co-acting with said securing means to rigidly secure the handle members together and retain the saw blade in the loop of said rod.

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

GRANT McKINNEY.

Witnesses:

H. PAMELL, Jr.,
E. H. PAMELL.