

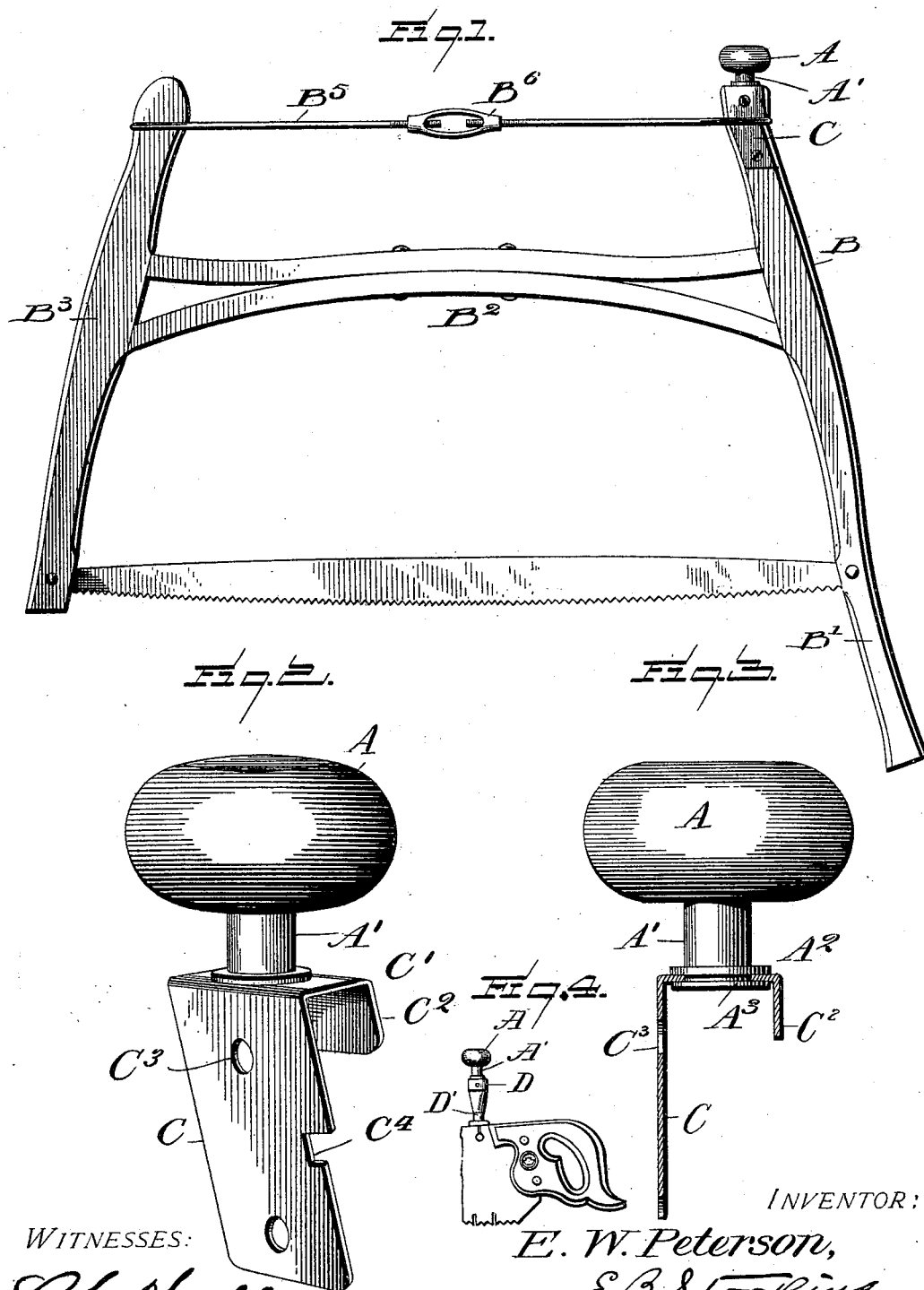
No. 648,992.

Patented May 8, 1900.

E. W. PETERSON.
HANDLE FOR SAW FRAMES.

(Application filed Feb. 13, 1900.)

(No Model.)



WITNESSES:

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HANDLE FOR SAW-FRAMES.

SPECIFICATION forming part of Letters Patent No. 648,992, dated May 8, 1900.

Application filed February 13, 1900. Serial No. 5,087. (No model.)

To all whom it may concern:

Be it known that I, EDWARD W. PETERSON, a citizen of the United States, residing at Florence, in the county of Florence, State of Wisconsin, have invented certain new and useful Improvements in Handles for Saw-Frames, of which the following is a specification, reference being had therein to the accompanying drawings.

10 This invention relates to handles for saws, and particularly to a structure of handhold by which the saw may be used without relaxing the grasp of the hand of the operator upon the handle.

15 The invention has for an object to provide a pivoted handhold in connection with the handle of a saw, so as to permit a rotary movement of the handhold in the reciprocating movement of the handle and saw carried thereby.

20 This permits the grasping of the handhold with a constant tension, thus obviating the loss of power and preventing the rubbing movement of the hand incident to the reciprocation of the saw to and from the body of the operator.

25 A further object of the invention is to provide a means for attaching the handhold to an ordinary construction of saw now in use by which it can be applied by the ordinary user of a saw.

30 Other objects and advantages of the invention will hereinafter appear in the following description, and the novel features thereof will be particularly pointed out in the appended claims.

35 In the drawings, Figure 1 is a side elevation of a saw and frame with my invention applied thereto. Fig. 2 is a detail perspective of the handhold and attaching-plate. Fig. 3 is a vertical section through the attaching-plate with the handhold in elevation, and Fig. 4 is a detail of a modified means of attaching the handhold to a saw.

40 Like letters of reference indicate like parts throughout the several figures of the drawings.

The letter A designates a handhold, which may be of any suitable configuration and is pivotally mounted upon the handle of a saw.

50 This handhold may be applied to any form of saw found desirable, but for the purpose of illustration is shown applied to the frame of an

ordinary bucksaw, in connection with which it has been found particularly efficient in operation. In the form of saw-frame shown B 55 indicates a handle-bar having at its lower end a handhold B' and at the opposite end of the connector B² is provided with an end bar B³. From the lower end of this bar to the handle B the saw-blade extends, while at the upper 60 end of the bars a truss-rod B⁴ and turnbuckle B⁵ are provided for placing the proper tension upon the blade of the saw. These parts, however, are of the ordinary construction and are merely shown to illustrate the application of 65 the invention.

For the purpose of illustrating one method of mounting the pivoted or rotatable handhold A upon a saw-handle I have shown the same as provided with a shank A', pivoted at 70 its lower end in an attaching-plate C by means of a flange A² above an aperture in said plate and a flange A³ beneath such an aperture. The plate C is provided with an angular portion C', which constitutes a cap for the saw- 75 handle, and a depending lip or flange C² to embrace the opposite face of the handle from that covered by the plate C. The plate C is secured in position by any suitable attaching means—for instance, nails or screws passed 80 through the apertures C³ therein—and is provided with a recess C⁴, into which the loop of the truss-rod B⁵ will pass, and thus relieve the wooden handle of the saw from the strain of the truss-rod, thereby preventing splitting or 85 other injury thereto.

In the operation of a saw, such as the bucksaw illustrated, the movement of the same to and from the body of the operator causes the hand grasping the upper portion of the 90 handle-bar to release its grasp on the bar at certain times in the movement of the arm toward and away from the body. This causes a rubbing of the handle upon the flesh of the hand, which renders the latter sore and creates 95 an amount of friction, which results in a consequent loss of power, in that the operator cannot retain a firm grasp upon the handle in the continued reciprocation of the saw-blade. The pivoted handle shown obviates 100 this difficulty, as a firm and continued grasp may be had upon the handhold A during the reciprocation of the saw, while the handhold turns slightly upon its pivot as the arm of

the operator approaches to and recedes from his body. This will be apparent from the fact that in the sawing operation the saw is reciprocated in a straight line, while the arm and hand of the operator describe more or less of an arc of a circle in their movement. This invention thus relieves the muscles of the elbow and wrist to such an extent that the sawing operation is greatly facilitated and the operator is not required to exert so great an expenditure of power as with the rigid handhold heretofore used, consequently rendering the saw easier of operation and the amount of work performed thereby greater.

It will be seen that the form of the invention illustrated in this case is applicable to any ordinary construction of saw—for instance, as in Fig. 4, where a pivoting-cap D, carrying the handhold, is applied to a handle D', secured to a saw-blade or to a bucksaw by removing the upper portion of the handle-bar and affixing the rotatable handhold and cap thereto. It will be further observed that this attaching plate or cap does not in any wise weaken the handle of the saw at the point where applied, as the pivoting of the handhold is entirely within the metallic cap or plate, and this plate in the last instance further receives the strain of the truss-bar.

It will be obvious that changes may be

made in the construction and configuration of the details of the several parts without departing from the spirit of the invention as defined by the appended claims.

Having described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. A supplemental handle for saws comprising an attaching-plate having depending flanges to embrace a portion of the saw-handle and adapted to be secured thereto, and a handhold provided with a stem having a head beneath said plate, whereby it is adapted to swivel upon said plate; substantially as specified.

2. In a handle for a saw-frame comprising a handle-bar and end bar, a connector and saw-blade, a truss-rod extending between the upper ends of the handle and end bars, a plate applied to the upper end of the handle-bar and having a notch to receive the loop of said truss-bar, and a handhold pivotally mounted upon said plate; substantially as specified.

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

EDWARD W. PETERSON.

Witnesses:

EDWARD E. WILCOX,
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