D. P. DALEY.

CARPENTER'S SAW VISE.

APPLICATION FILED MAR. 28, 1910.

997,243.

Patented July 4, 1911.

Fig. 1.

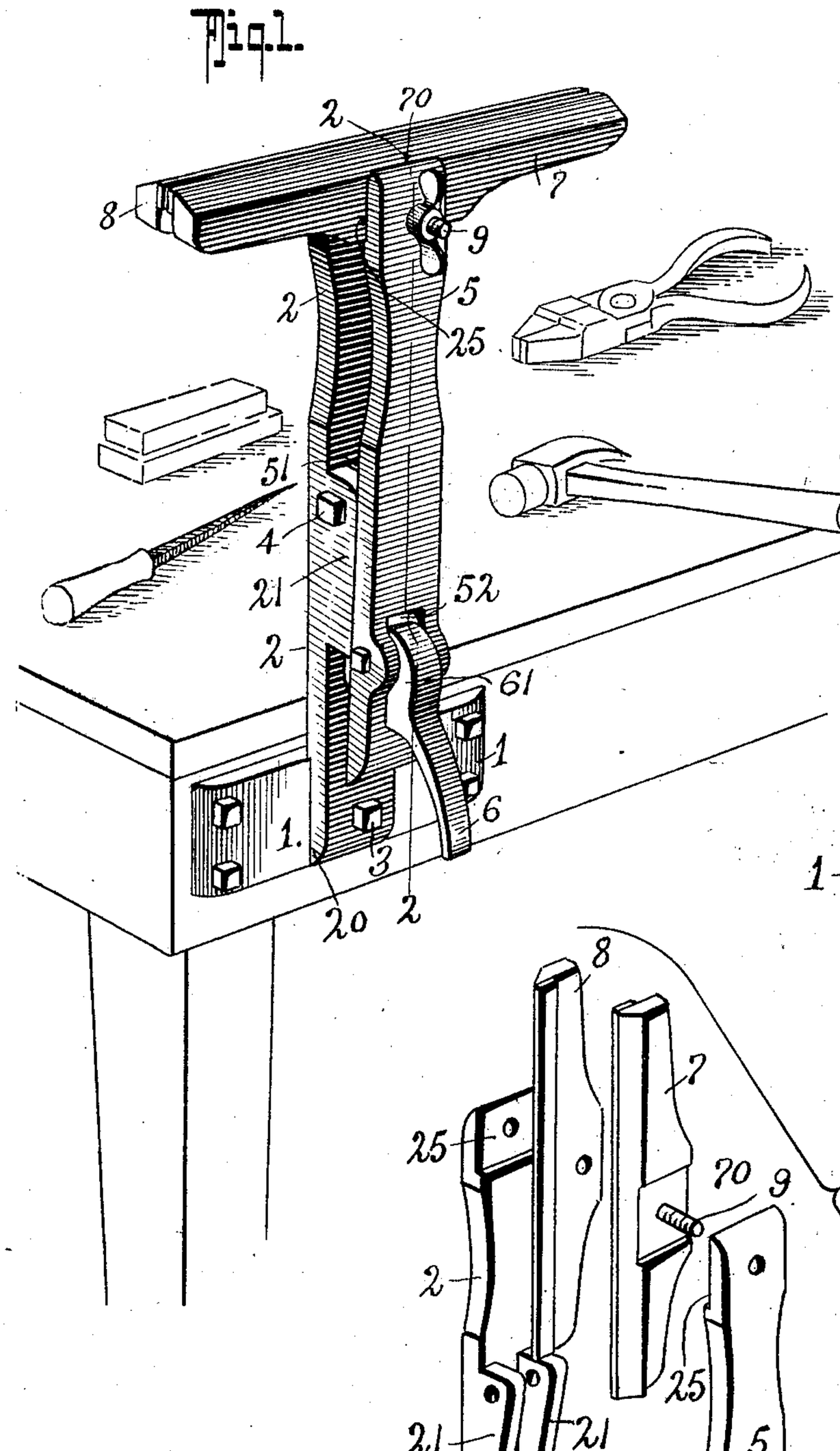

Fig. 2.

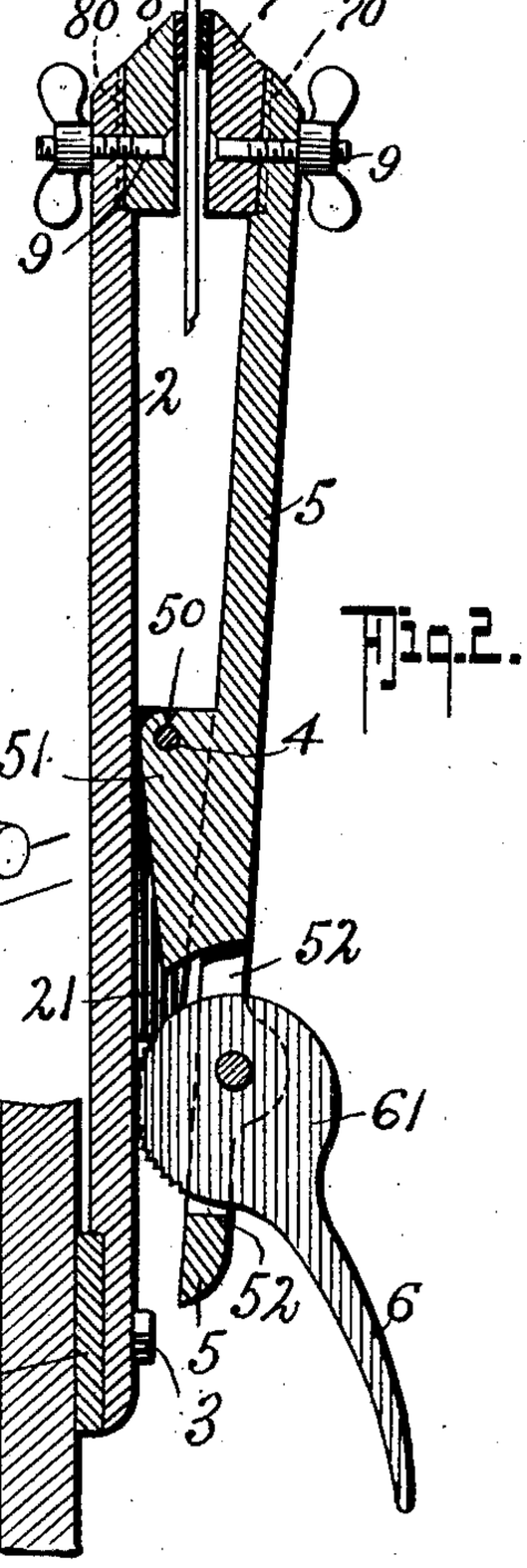

Fig. 3.

WITNESSES:

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CARPENTER'S SAW-VISE.

997,243. Specification of Letters Patent. **Patented July 4, 1911.**

Application filed March 28, 1910. Serial No. 552,026.

To all whom it may concern:

Be it known that I, DANIEL P. DALEY, residing at Bolivar, in the county of Allegany and State of New York, have invented a new and Improved Carpenter's Saw-Vise, of which the following is a specification.

This invention has for its object to provide a new and improved carpenter's tool or implement, of a simple and economical construction and that is more especially adapted for clamping and holding saws.

In its generic features, my invention comprehends a new and novel arrangement and combination of the several parts, whereby the entire device may be readily collapsed, and folded into a small package for being conveniently carried.

In its more subordinate nature, my invention seeks to provide certain details of construction and novel arrangement of parts hereinafter fully explained, specifically pointed out in the claims and illustrated in the accompanying drawings, in which:

Figure 1, is a perspective view of my invention and shows the manner in which it is used. Fig. 2, is a vertical section thereof, taken substantially on the line 2—2 on Fig. 1. Fig. 3, is a perspective view of the several parts that constitute my invention separated.

In the practical application of my invention, the several parts thereof are so combined and arranged to coöperate in such manner that the tool can be readily attached to or removed from an ordinary carpenter's bench and for that purpose the tool includes a bottom plate 1, having apertures 10 at the corners to receive the fastening screws, see Fig. 1, and provided with a socket 11 to receive the tenoned lower end 20 of the main or back stay 2 that is removably but firmly clamped on the plate 1 by the clamp screw 3. The back stay 2 has a pair of outwardly extended and oppositely disposed flanges 21 wedge shaped with respect to the vertical or side elevation of the stay, the upper or wide portions of which are apertured to detachably receive a pivot bolt 4 that also projects through an aperture 50 in the upper end of a wedge shaped flange 51 that extends inwardly from the front or outer stay 5, which latter is somewhat shorter than stay 2 and has the lower end extended to near the bottom plate and its upper end extended flush with the upper end of the back stay, as clearly shown in the drawing. The inner and opposing faces of the upper ends of the front and back stays are offset as at 25 to form seats for the clamping jaws 7 and 8, each of which has a transverse groove 70—80 to seat over the upper ends of the front and back stays, to which they are secured by the angled screw bolts 9—9.

It will be noticed, by referring to Fig. 2, the flanges on the inner faces of the stays are positioned sufficiently below the upper ends of the said stays so the clamp jaws 7 and 8 can be turned in the longitudinal plane of the stays and clamped by the bolts 9—9, such arrangement of parts being provided that they may be folded together for being conveniently carried by the carpenter or in the tool chest.

The lower end of the front stay 5 has a longitudinal slot 52 for receiving the cam head 61 of the lever 6, having an outwardly curved handle that extends upwardly over the front stay. If desired, the inner edge of the cam head and that part of the face of the back stay with which it engages may be roughened or slightly serrated to effect a tight bight of the clamping lever.

From the foregoing, taken in connection with the drawings, the complete construction, the manner of operation and the advantages of my invention will be readily apparent. In practice, my improved implement may be made of malleable or cast iron.

Having thus described my invention, what I claim and desire to secure by Letters Patent, is:

1. An implement of the character stated, comprising a bottom member for attaching to a bench, a back stay secured thereto and projected vertically therefrom, a clamping jaw, a threaded pivoted bolt therefor midway its length, said bolt being mounted in the upper end of the back stay, a clamping nut for engaging the threaded end of the bolt and the upper end of the back stay, a front stay, a clamping member rotatably mounted on the inner face of the upper end of the front stay to oppose the other clamping member, a clamp bolt mounted in the top of the front stay that engages the clamping member on the said stay for holding it to its set position, the said front stay being fulcrumed on the front face of the back stay, the fulcrum connection including opposing co-acting flanges for holding the two stay members separated whereby to form a space

to receive the lower ends of the two clamping jaws when they are turned to their vertical position, the fulcrum for the outer stay member and the inner stay member being at a point below the lower extremities of the clamping members when they are turned vertically and a cam shifting lever mounted in the lower end of the outer stay and engaging the back stay, for the purposes described.

2. An implement of the character stated, comprising a recessed bottom member for attaching to a bench, a back stay removably secured thereto in said recess and projected vertically therefrom, a clamping jaw, a threaded pivoted bolt therefor midway its length, said bolt being mounted in the upper end of the back stay, a clamping nut for engaging the threaded end of the bolt and the upper end of the back stay, a front stay, a clamping member rotatively mounted on the inner face of the upper end of the front stay to oppose the other clamping member, a clamp bolt mounted in the top of the front stay that engages the clamping member on the said stay for holding it to its set position, the said front stay being fulcrumed on the front face of the back stay, the fulcrum connection including opposite co-acting flanges for holding the two stay members separated whereby to form a space to receive the lower ends of the two clamping jaws when they are turned to their vertical position, the fulcrum for the outer stay member and the inner stay member being at a point below the lower extremities of the clamping members when they are turned vertically, a cam shifting lever, said front stay having projecting lugs spaced apart and having an opening between said lugs to receive the cam portion of said shifting lever, a bolt passing through the stay on which said shifting lever is mounted, said shifting lever cam portion adapted to project through said opening and engage said back stay, all being arranged substantially as shown and described.

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Witnesses:
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