

No. 838,941.

PATENTED DEC. 18, 1906.

W. C. BIRDSALL.
SAW HANDLE.

APPLICATION FILED MAY 19, 1906.

2 SHEETS—SHEET 1.

Fig. 1.

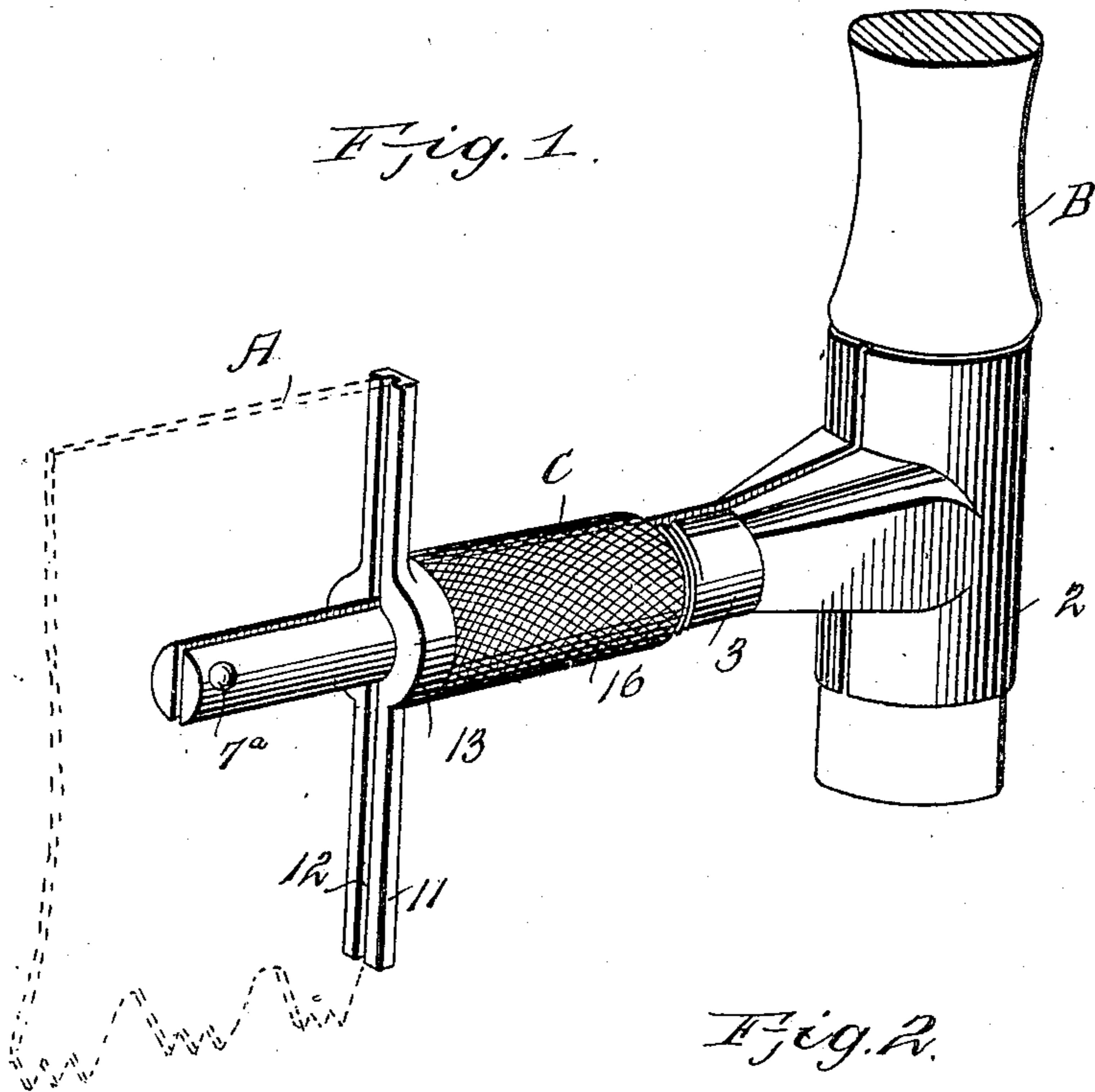


Fig. 2.

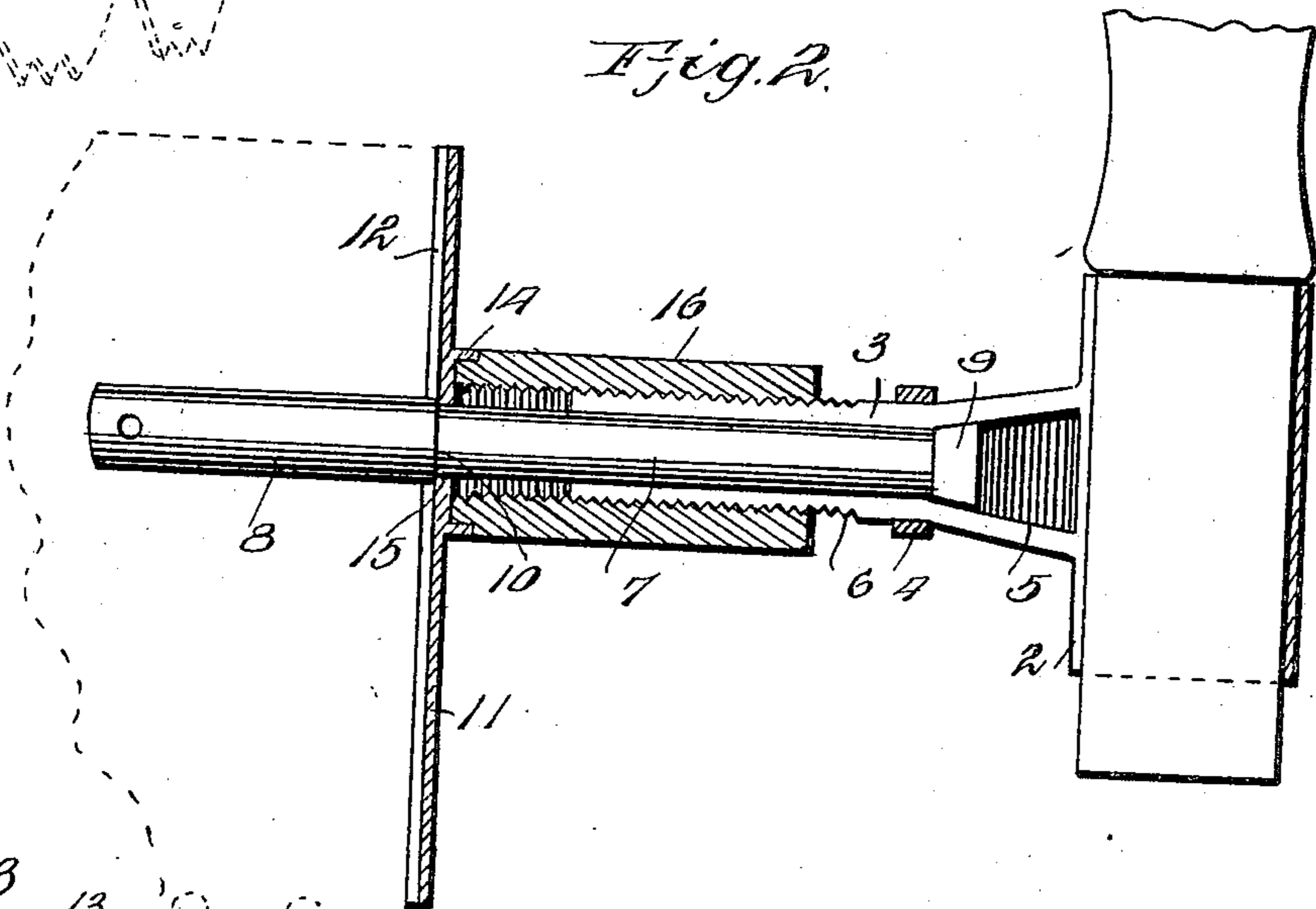
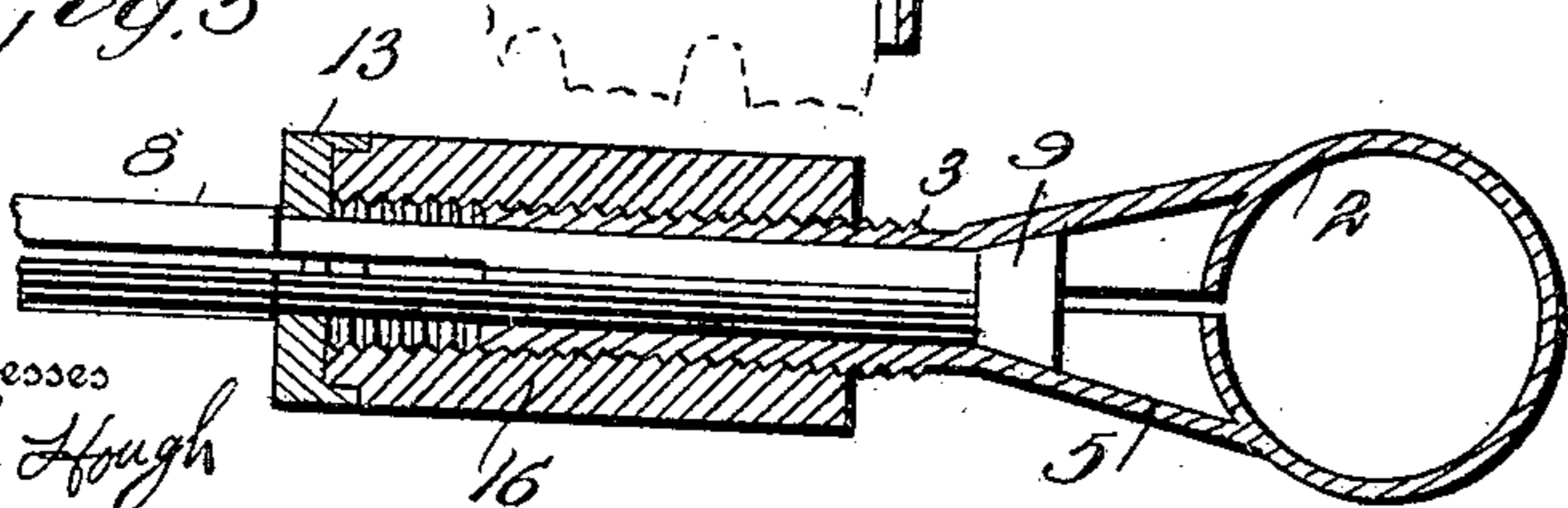


Fig. 3.



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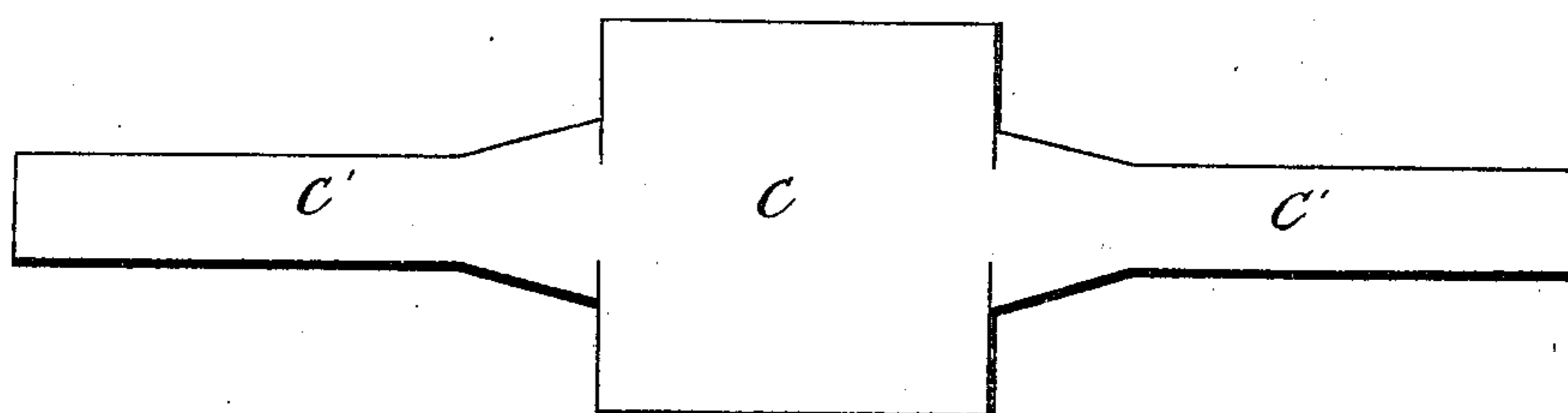
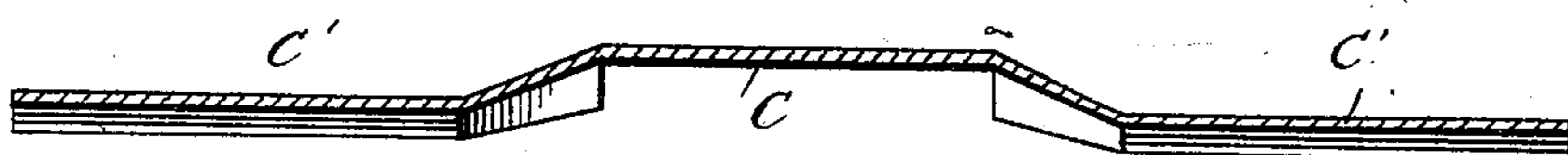


Fig. 4.

Fig. 5.



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UNITED STATES PATENT OFFICE.

WALLACE C. BIRDSALL, OF OAKLAND, CALIFORNIA.

SAW-HANDLE.

No. 838,941.

Specification of Letters Patent.

Patented Dec. 18, 1906.

Application filed May 19, 1906. Serial No. 317,847.

To all whom it may concern:

Be it known that I, WALLACE C. BIRDSALL, a citizen of the United States, residing at Oakland, in the county of Alameda and State of California, have invented new and useful Improvements in Saw-Handles, of which the following is a specification.

My invention relates to saw-handles; and its primary object is to provide a novel and highly useful device by means of which a handle may be secured to a saw-blade to permit the adjustment of the handle into the plane of the saw or at right angles with relation thereto.

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

Figure 1 is a perspective view of a handle-securing device constructed in accordance with my invention. Fig. 2 is a vertical central longitudinal sectional view therethrough. Fig. 3 is a horizontal central longitudinal section. Fig. 4 is a plan view of the blank of which the handle-carrying member is formed, and Fig. 5 is a central longitudinal sectional view of the blank.

Referring to the drawings by reference characters, A designates a saw, B a handle, and C my improved device for securing the handle to the saw to permit the handle to be adjusted into the plane of the saw or at right angles with relation thereto, the saw and handle being of the usual construction.

A handle-carrying member, which comprises a hollow head 2, adapted for the reception of the lower end of the handle B, and a shank 3, provided with a longitudinally-extending passage, is formed from a single blank of any suitable material. The blank of which the member is formed is stamped up to provide an enlarged rectangular portion *c* and two laterally-projecting depressed portions *c'*, so that in making up the blank the enlarged portion *c* forms the head 2 and the depressed portion *c'* forms the shank 3. To retain the blank in handle-carrying-member form, a collar 4 is shrunk upon the shank 3. The inner or attached end of the shank 3 is enlarged to provide an outwardly-tapering angular seat 5 at the inner end of the passage extending longitudinally therethrough, and the greater portion of the outer surface of the shank is screw-threaded, as at 6. The

free end of a bolt 7, secured to the saw A, is received by the passage of the shank 3 to mount the handle-carrying member thereon for slight longitudinal and rotary movements, thus adapting the handle for adjustment into the plane of or at right angles with relation to the saw. The bolt 7 is provided with an enlarged end 8, slotted for the reception of one end of the saw A, its free end being provided with a tapering angular head 9, located within the seat 5. The free end of the bolt 7 is inserted into the passage of the shank 3 prior to the application of the collar 4, and the bolt is secured to the saw by means of a rivet 7^a. A saw-guard 11 is mounted upon the bolt 7 between the shoulder 10, formed thereon by its enlarged end 8, and the outer end of the shank 3, said guard being applied prior to the formation of the head 9 of the bolt. The guard 11 is provided in its outer face with a longitudinally-extending groove 12 for the reception of one of the vertical edges of the saw and is provided intermediate its ends with an enlarged circular portion 13. The portion 13 is provided with an annular flange 14 and an annular opening 15, the bolt extending through the opening. A nut 16 is mounted upon the threaded portion of the shank 3 and has its outer end reduced and fitted within the flange 14. The outer surface of the nut is milled to facilitate the turning thereof upon the shank.

The manner in which my improved device may be applied to a saw and the manner in which the same may be operated to adjust the handle into and secure it in the plane of the saw or at right angles with relation thereto may be stated to be as follows: The several parts of the device having been assembled, the bolt 7 is secured to the saw by means of the rivet 7^a, after which the handle-carrying member is manipulated to position the handle either in or at right angles with relation to the plane of the saw. After the handle has been properly positioned the handle-carrying member is moved longitudinally upon the bolt in the direction away from the saw, thus moving the angular head 9 into the smaller end of the angular seat 5, in which position the head prevents the handle-carrying member from having rotary movement upon the bolt 7. The nut 16 is then manipulated to move the guard 11 into engagement with the vertical edge of the saw and to prevent the handle-carrying member from having any longitudinal movement upon the

bolt 7. Should it be desired to move the handle into a different position with relation to the saw, the nut 16 is manipulated to permit the handle-carrying member to be moved 5 longitudinally upon the bolt 7 in the direction of the saw, thus moving the angular head 9 into the larger end of the seat 5 to permit the handle-carrying member to be revolved upon the bolt. After the handle has 10 been moved into the desired position the handle-carrying member is again moved upon the bolt 7 in the direction away from the saw and the nut 6 manipulated to lock the handle-carrying member against longitudinal movement. 15

From the foregoing description, taken in connection with the accompanying drawings, the construction and mode of operation of the invention should be understood without a further extended description. 20

Changes in the form, proportions, and minor details of construction may be made within the scope of the claims without departing from the spirit or sacrificing any of 25 the advantages of the invention.

Having fully described and illustrated my invention, what I claim is—

1. In a device of the character described, the combination with a saw, of a bolt secured 30 to the saw and provided with an angular head, a handle-carrying member provided with a passage for the reception of the free end of the bolt and with an angular seat for the reception of the angular head of the bolt, 35 said handle-carrying member being adapted to have imparted thereto longitudinal and rotary movements upon the bolt, and a nut mounted upon the handle-carrying member.

2. In a device of the character described, the combination with a saw, of a bolt secured 40 to the saw and provided with an angular head, a handle-carrying member provided with a shank having a passage for the reception of the free end of the bolt and an angular seat for the reception of the angular head 45 of the bolt, and a nut mounted upon the shank.

3. In a device of the character described, the combination with a saw, of a bolt secured 50 to the saw and provided with an angular head, a handle-carrying member provided with a shank having a passage for the reception of the free end of the bolt and an angular seat for the reception of the angular head 55 of the bolt, a guard mounted upon the bolt, and a nut mounted upon the shank.

4. In a device of the character described, the combination with a saw, of a bolt secured 60 to the saw, said bolt being provided with a shoulder and an angular head, a handle-carrying member provided with a shank having a passage for the reception of the free end of the bolt and an angular seat for the reception of the angular head of the bolt, a guard 65 mounted upon the bolt between the shoulder and the shank, and a nut mounted upon the shank, said nut providing means by which the handle-carrying member is locked in adjusted position.

In testimony whereof I affix my signature 70 in presence of two witnesses.

WALLACE C. BIRDSALL.

Witnesses:

MABEL ALBRIGHT,
R. W. NEIGHBOR.