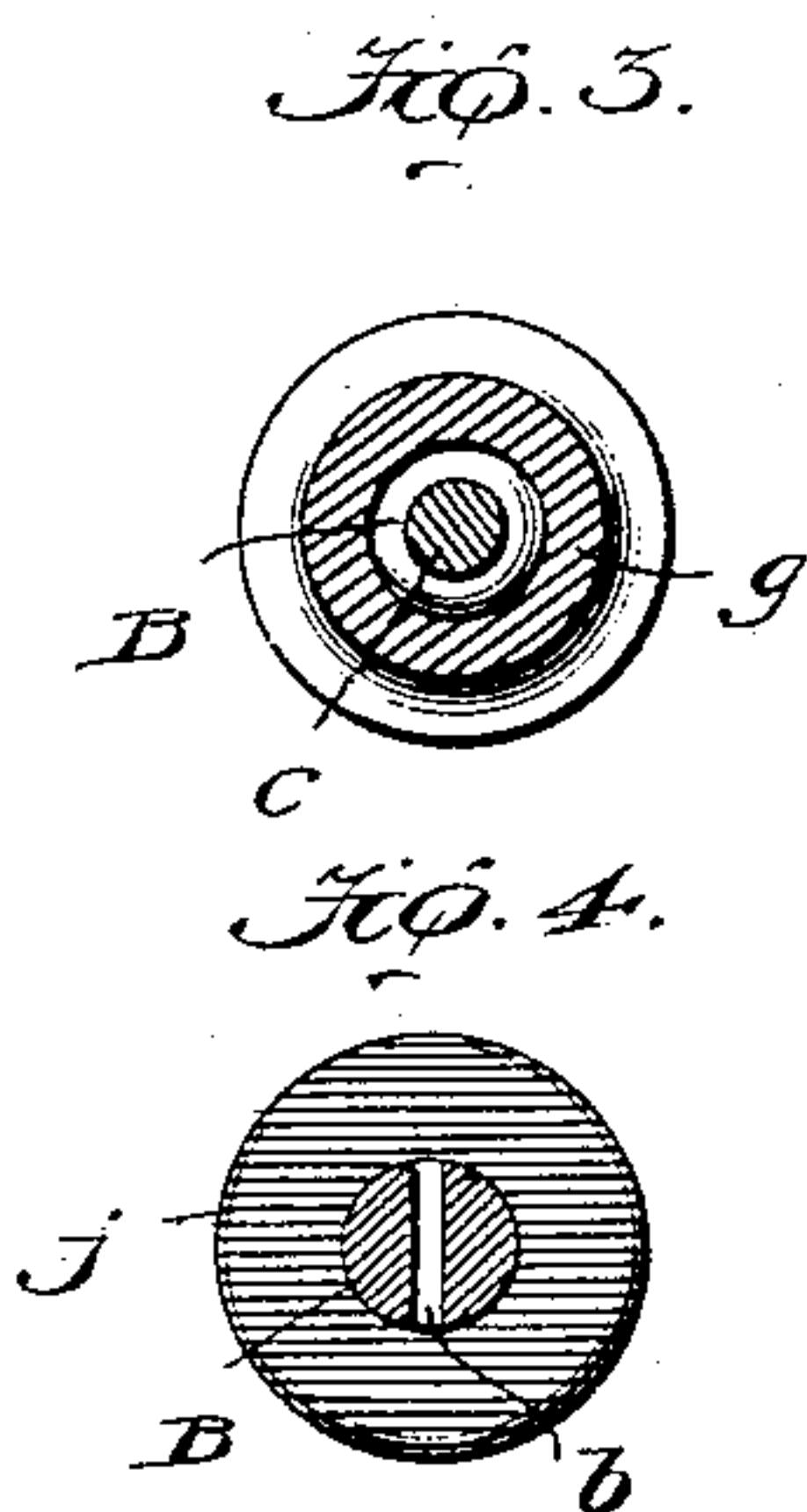
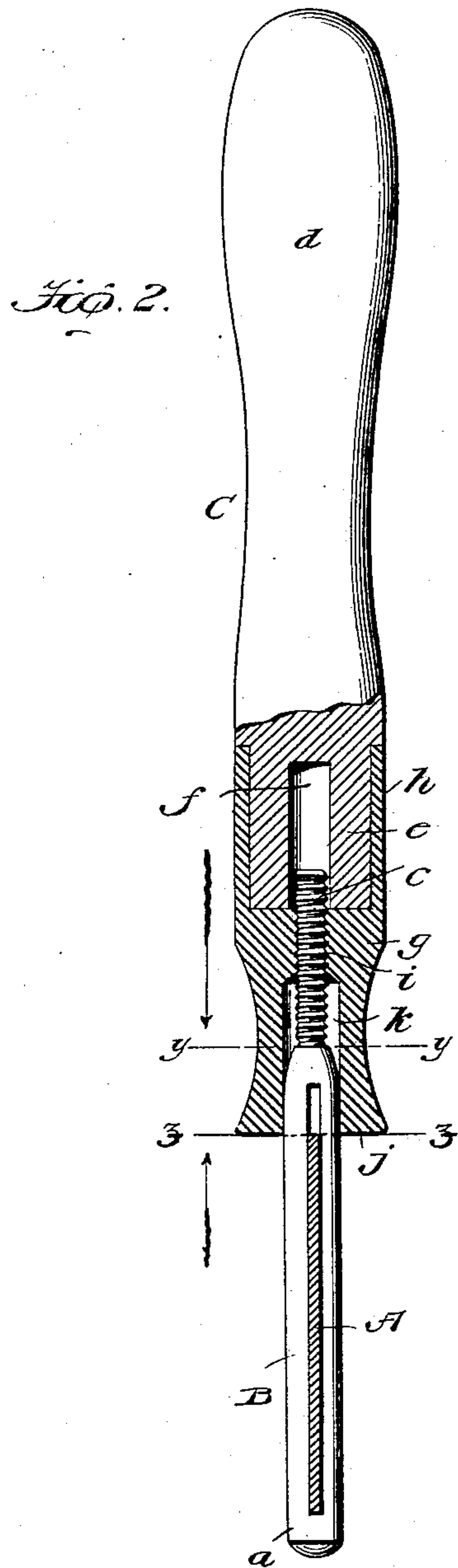
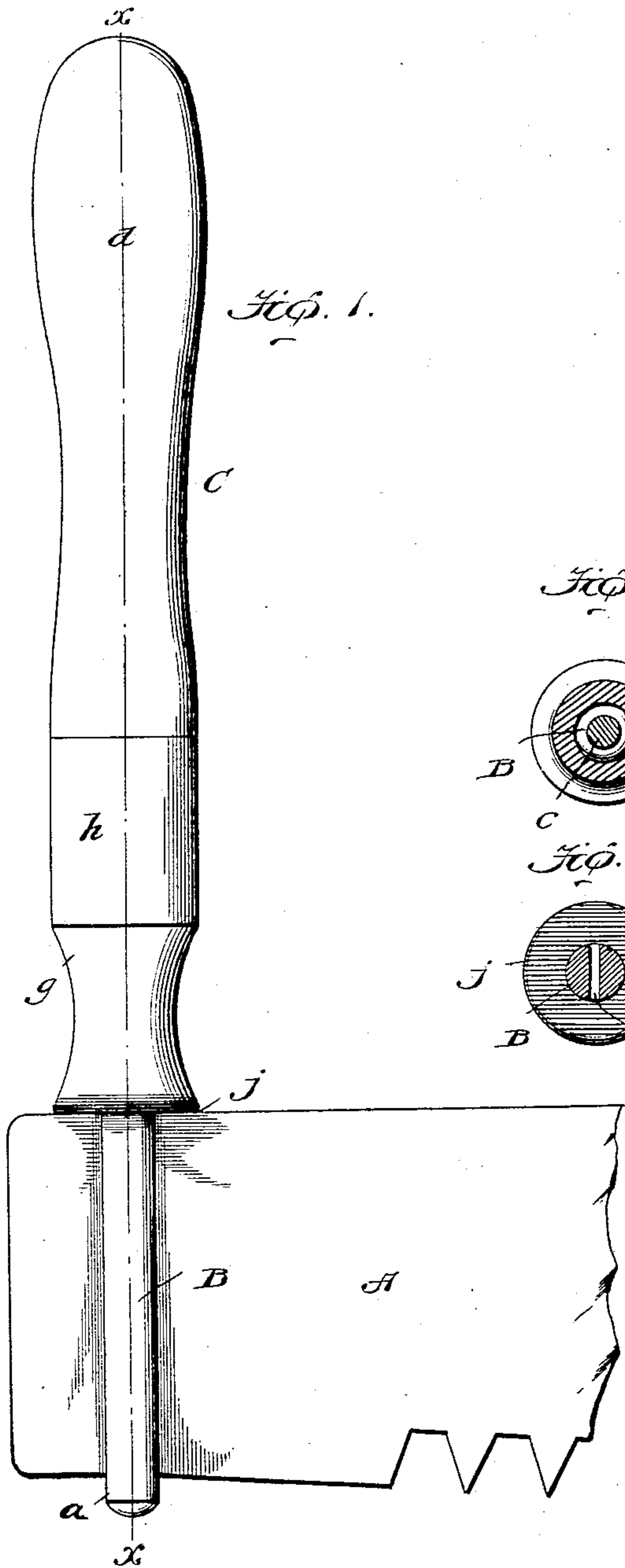


No. 750,773.

PATENTED JAN. 26, 1904.

W. MACLENNAN.  
CROSSCUT SAW HANDLE.  
APPLICATION FILED MAY 27, 1903.

NO MODEL.



Witnesses

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# UNITED STATES PATENT OFFICE.

WILLIAM MACLENNAN, OF BOWIE, LOUISIANA.

## CROSSCUT-SAW HANDLE.

SPECIFICATION forming part of Letters Patent No. 750,773, dated January 26, 1904.

Application filed May 27, 1903. Serial No. 159,001. (No model.)

*To all whom it may concern:*

Be it known that I, WILLIAM MACLENNAN, a citizen of the United States, residing at Bowie, in the parish of Lafourche and State of Louisiana, have invented new and useful Improvements in Crosscut-Saw Handles, of which the following is a specification.

My invention pertains to that class of crosscut-saw handles which comprise a body and a bolt screwed into the body and adapted to receive and clamp a saw-blade against the same; and it has for its object to provide a handle which while a material simplification of those extant is so constructed that the threaded portion of the clamping-bolt is relieved of lateral strain incident to the manipulation of a saw, and hence is not liable to be broken or bent and set in its socket.

With the foregoing in mind the invention will be fully understood from the following description and claim, when taken in connection with the accompanying drawings, in which—

Figure 1 is a side elevation illustrating my improved handle attached to a portion of a saw-blade. Fig. 2 is a view partly in elevation and partly in section, the sectional part being taken in the plane indicated by the broken line *xx* of Fig. 1; and Figs. 3 and 4 are transverse sections taken in the planes indicated by the broken lines *yy* and *zz*, respectively, of Fig. 2 looking in the direction indicated by arrows.

Similar letters designate corresponding parts in all of the several views of the drawings, referring to which—

A is the blade of a crosscut-saw, and B the clamping-bolt of my improved handle. The said bolt comprises a lower portion *a*, of circular form in cross-section, in which is a slot *b*, adapted to receive the blade A, and an upper reduced and threaded portion *c*.

C is the handle-body. This in the present and preferred embodiment of my invention comprises an upper portion *d*, of wood, having a reduced lower end *e* and a central socket *f* therein, and a lower ferrule or portion *g*, of brass or other suitable metal, which has a shell *h* at its upper end tightly receiving the reduced lower end of the portion *d*. In addition to the shell *h* the metallic portion *g* is pro-

vided with a central threaded socket *i*, which extends down from the bottom of the shell and is of a size to receive and engage the reduced portion *c* of the clamping-bolt, a plain lower end *j*, Fig. 4, and a central smooth bore *k*, disposed at right angles to the end *j* and which extends down from the lower end of the socket *i* to said end *j* and is of a diameter to snugly receive the portion *a* of the clamping-bolt after the manner best shown in Fig. 2.

While I prefer to form the handle-body of an upper portion of wood and a lower portion of metal, as described, it is obvious that the body may be formed entirely of metal without involving a departure from the scope of my invention.

In the practical use of my improved handle the saw-blade is placed in the slot *b* of the clamping-bolt, while said slot is entirely or almost entirely without the bore *k* of the body, after which the body is turned until the blade is securely clamped between the lower end wall of the slot *b* and the square and smooth lower end *j* of the body, the squareness and plainness of said end *j* of the body permitting of the body being turned, as stated, until the blade is securely fixed in the bolt. When the blade, clamping-bolt, and body are connected as just described, it will be observed that the upper end of the bolt portion *a* will snugly occupy the bore *k* of the body and be reinforced and held against lateral movement by the wall of said bore, and in consequence when the saw is manipulated through the medium of the handle the threaded portion *c* of the bolt will be relieved of all lateral strain and will not be liable to break or bend and become set in the socket *i*. From this it follows that after use of the saw the body C may be freely turned in the direction opposite to that mentioned to render the blade A loose in the clamping-bolt, when said blade may be readily removed and a new blade placed in the bolt and fixed with respect to the handle.

The upper end of the bolt portion *a* in the smooth bore *k* of the body is assisted in relieving the threaded portion of the bolt of lateral strain by the square smooth end *j* of the body, which bears against the upper edge



of the blade A and tends to prevent rocking or lateral movement of the handle on the blade.

Notwithstanding its advantages pointed out 5 in the foregoing it will be observed that my improved handle is at once simple, light, and strong and durable.

When desired, the shell *h* of the lower metallic portion of the handle-body may be constructed with a shoulder or ridge on the inside, so as to more firmly secure and hold 10 the reduced lower end of the wood portion *d*.

Having described my invention, what I claim, and desire to secure by Letters Patent, 15 is—

In a crosscut-saw handle, a ferrule comprising a sleeve portion which incloses the end of the handle and a solid portion integral therewith substantially closing the outer end 20 of the ferrule, and having a threaded aperture through the face abutting the handle which

is expanded into a smooth, cylindrical bore opening through the outer end or face of the solid portion; said outer face being flat or smooth and sufficiently wide to afford a considerable bearing on the back of the saw 25 which it engages directly, in combination with a clamping-bolt having an upper threaded portion arranged in and engaging the threaded aperture of the ferrule, and a lower portion 30 of circular form in cross-section and slightly less diameter than the smooth bore of the ferrule, snugly occupying said bore, and provided with a longitudinal, diametrically-disposed slot of greater length than the width of 35 the saw to be held.

In witness whereof I have hereunto set my hand in presence of two subscribing witnesses.

WILLIAM MACLENNAN.

Witnesses:

E. J. JACQUET,

M. R. NEUHAUSER.