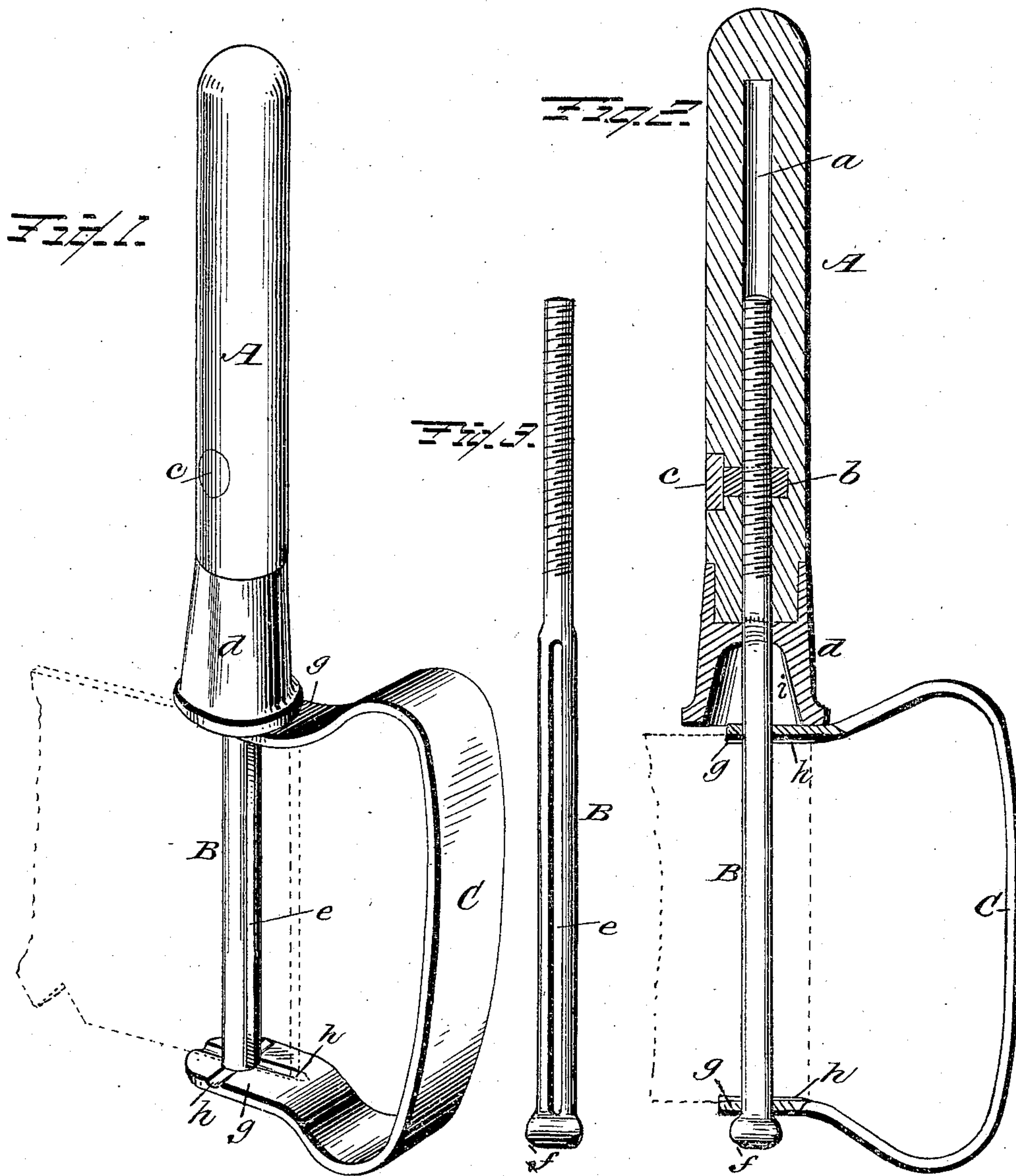


No. 877,169.

PATENTED JAN. 21, 1908.

C. BROCKELHURST.
HANDLE FOR CROSSCUT SAWS.
APPLICATION FILED AUG. 23, 1907.



Witnesses
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CHESTER BROCKELHURST, OF MAQUON, ILLINOIS.

HANDLE FOR CROSSCUT-SAWS.

No. 877,169.

Specification of Letters Patent.

Patented Jan. 21, 1908.

Application filed August 23, 1907. Serial No. 389,827.

To all whom it may concern:

Be it known that I, CHESTER BROCKELHURST, citizen of the United States, residing at Maquon, in the county of Knox and State of Illinois, have invented certain new and useful Improvements in Handles for Cross-cut-Saws, and do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

The present invention has for its object to provide a handle for cross-cut saws that will possess strength and durability and simple and convenient in operation and firmly hold the saw-blade, enabling the saw to be used with both hands through the medium of a handle and a grip each being independent of the other thereby providing a solid, safe, substantial, permanent and firm hold for both hands in the operating of the saw.

The invention consists in a handle for cross-cut saws constructed substantially as shown in the drawings and hereinafter described and claimed.

Figure 1 of the drawings is a perspective view of a saw-handle constructed in accordance with my invention, the end of the saw blade being shown in dotted lines. Fig. 2 a side elevation showing the vertical handle in section also the ends of the horizontal grip, the end of the saw-blade being shown in dotted lines. Fig. 3 a detail view of the saw-blade holding bolt.

In the accompanying drawings A represents an upright or vertical handle of wood or other suitable material having a central bore *a*, a stationary flat-sided screw-nut *b* which is let into the handle through a horizontal opening afterwards closed by a plug *c*, and a suitable ferrule *d* connected to the lower end of the handle. A saw-blade holding rod or bolt B extends up into the bore *a* of the handle A, and a certain length of its end is screw threaded to engage the screw threads of the nut *b* and has a slot *e* to receive the end of the saw-blade as indicated in dotted lines. A horizontal bow-shaped grip C which is at a right angle to the handle A enables both hands to be used effectively when sawing, said grip having holes at its ends through which passes the saw-blade holding rod, said rod at its lower end having a head *f* and the ends *g* of the grip have grooved seats *h* for the edge of the saw-blade

to engage so as to prevent the grip from turning to either side when the saw-blade is clamped in position, thus guarding against any lateral movement of the grip upon the slotted bolt or rod. The ferrule *d* is cup-shaped or in other words has a chamber *i* to provide space for the end of the grip C that bears against the ferrule to yield when the end of the saw-blade is inserted in the slot of the bolt or rod B, the grip being constructed of spring metal for this purpose.

After the saw-blade is inserted through the slot of the bolt or rod subsequent to the same being engaged with the holes in the ends of the grip and the screw threaded end of the bolt or rod engaging the screw threads of the bolt as shown in Fig. 2 of the drawing, by turning the bolt or rod in the proper direction the ends of the grip with the grooved seats will be drawn tightly against the edge of the saw-blade firmly holding it in position and the grooved seats preventing the grip from turning on the rod or bolt.

The employment of the grip in connection with the upright or vertical handle both hands may be brought into use when sawing, and after the saw has cut deep into the log or trunk of a tree the person can release his hand from the handle A and hold the grip C with one hand thereby preventing pinching the fingers between the handle and log or trunk, and also by the use of the grip a much straighter pull from the back end of the saw is obtained insuring easier sawing and a straighter cut and preventing tipping or wobbling of the saw blade.

The two features of the device which are considered of importance in this class of saw handles, reside in the construction of the spring ends of the grip C and the cup-shaped ferrule. The grip C is constructed of spring metal so as to allow the ends thereof to yield when pressure is brought thereon by the saw and the inner sides of the ends *g* of the grip have the grooved seats *h* for the edges of the saw-blade so that the blade cannot turn laterally and loosen the slotted screw-rod B. The ferrule *d* is cup-shaped or formed with a chamber *i* for the purpose of allowing the spring end of the grip which bears against the ferrule to yield outwardly to enable the saw-blade to be inserted between the grooved ends of the grip and engage the slot in the screw-bolt B, the space or chamber of the ferrule for this outward yielding movement of the end of the grip and by a very slight turn

of the screw-bolt the saw-blade will be firmly
clamped in position thereby avoiding the
turning of the bolt to any great extent. Con-
structing the grip of spring metal with grooved
5 seats and the ferrule with the chamber or
space to allow the end of the grip to yield
when the saw-blade is being inserted in posi-
tion renders the attachment both simple and
effective, the grip being constructed from a
10 single piece of spring metal and free to act
as spring clamps.

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

15 A handle for cross-cut saws comprising a
grip constructed of a single piece of spring
metal having its ends free to act as clamps

and provided with grooved seats for the edge
of the saw-blade to prevent said blade from
turning laterally when clamped thereby, and 20
a handle having a central bore, a stationary
screw-nut, a slotted screw-bolt engaging the
nut, and a ferrule upon the end of the handle
cup-shaped upon its outer end to form a
chamber or space to allow the end of the 25
spring metal grip to yield when the end of
the saw blade is being inserted in position,
substantially as and for the purpose set forth.

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

CHESTER BROCKELHURST.

Witnesses:

M. A. HOUSH.

C. F. HOUSH.