

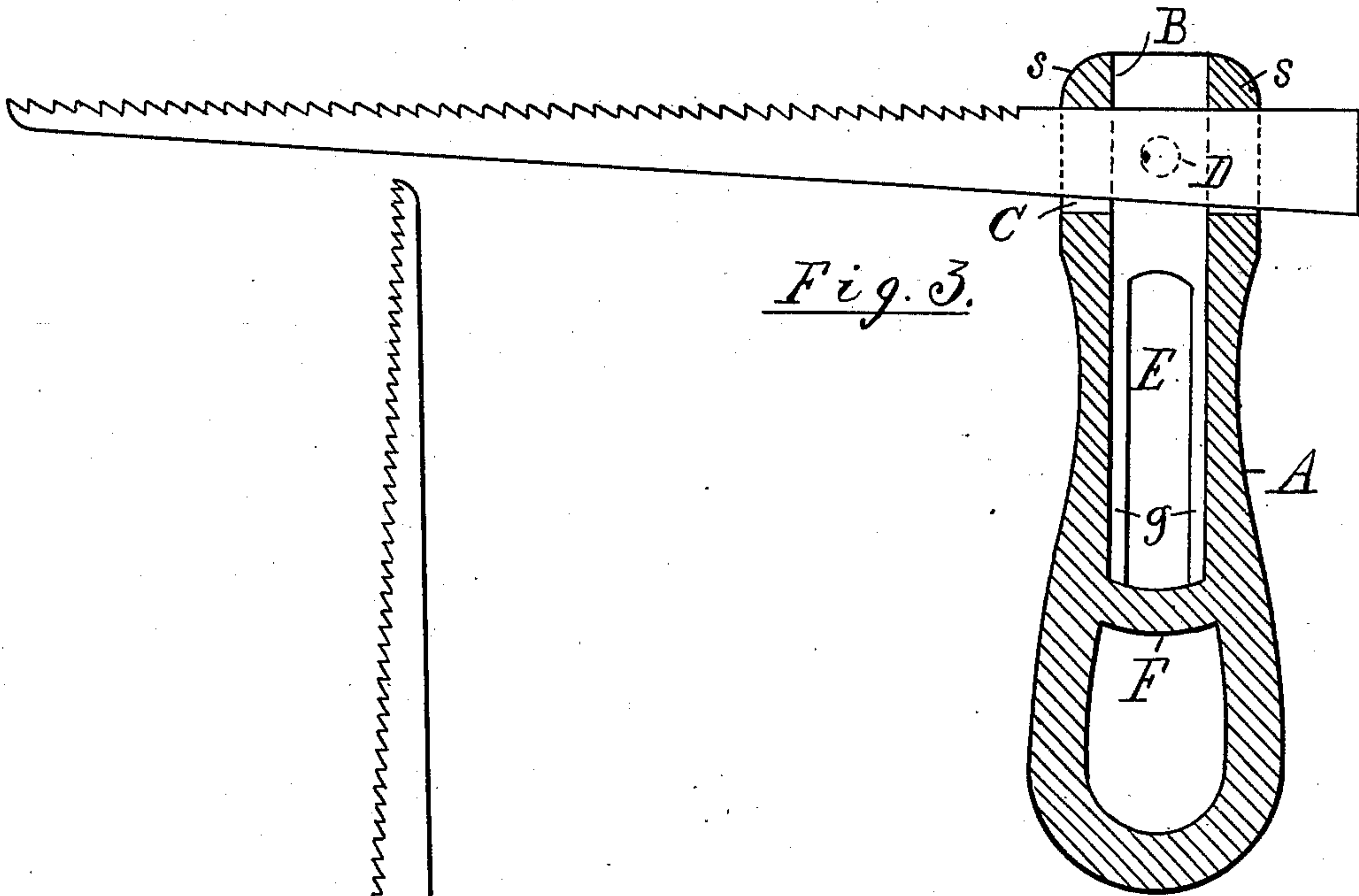
(No Model.)

C. RICHARDSON.

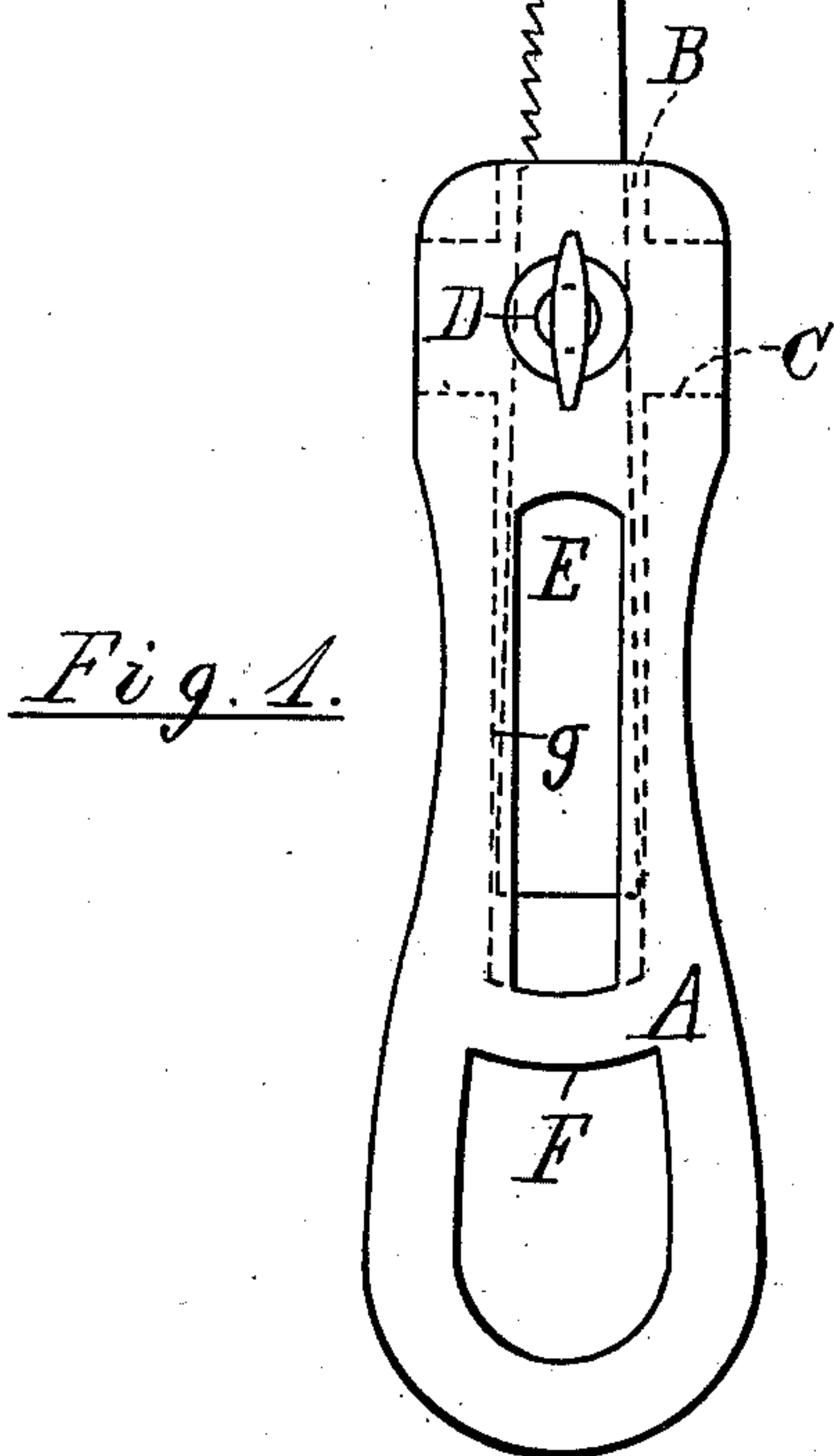
FRET SAW HANDLE.

No. 308,703.

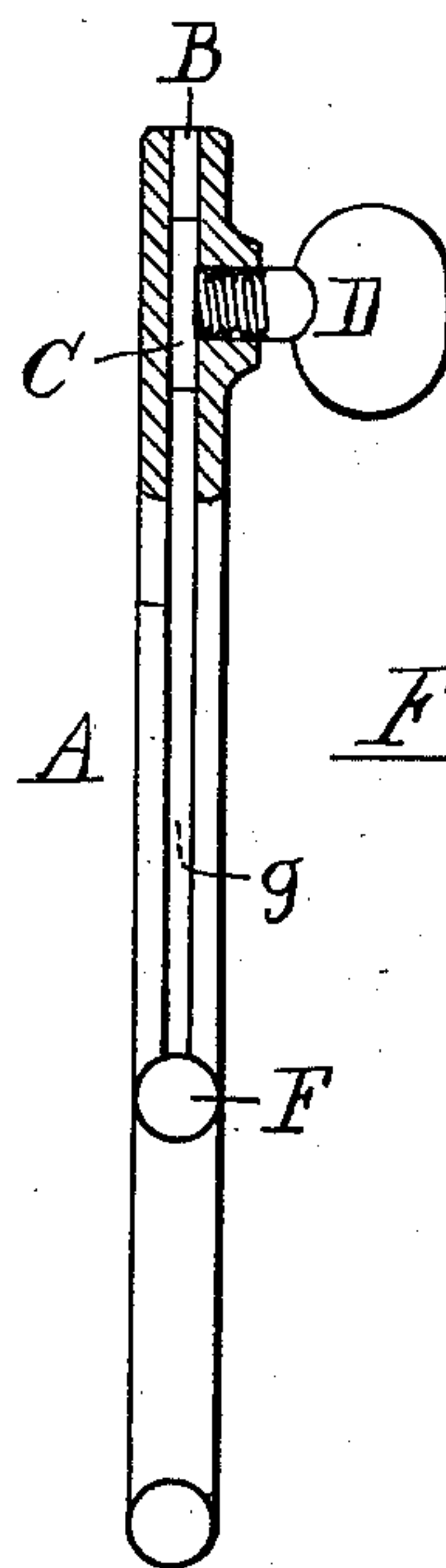
Patented Dec. 2, 1884.



*Fig. 3.*



*Fig. 1.*



*Fig. 2.*

Attest:

L. Lee

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Inventor.

Christopher Richardson

per Thos. S. Crane Atty

# UNITED STATES PATENT OFFICE.

CHRISTOPHER RICHARDSON, OF NEWARK, NEW JERSEY.

## FRET-SAW HANDLE.

SPECIFICATION forming part of Letters Patent No. 308,703, dated December 2, 1884.

Application filed September 15, 1884. (No model.)

*To all whom it may concern:*

Be it known that I, CHRISTOPHER RICHARDSON, a citizen of the United States, residing in Newark, Essex county, New Jersey, have invented certain new and useful Improvements in Fret-Saw Handles, fully described and represented in the following specification and the accompanying drawings, forming a part of the same.

10 This invention consists in the combination, with a flattened cast-iron handle, of a longitudinal slot adapted to receive the saw-blade and to hold the same projecting from the end of the handle, a screw for holding the saw-  
15 blade in such slot, and a transverse slot adapted to hold the saw-blade across the handle and in contact with the same fastening-screw.

This invention consists in a modification of the cast-iron fret-saw handles hitherto made, whereby the same is adapted to hold the saw  
20 either across or in line with the handle in contact with the same clamping-screw; and it also consists in a grooved opening and cross-bar formed in the handle for strengthening the same and for partially inclosing the blade.

In the drawings, Figure 1 represents the handle with the saw-blade projecting longitudinally. Fig. 2 is an edge view of the same with the head of the handle adjacent to the  
30 fastening-screw in section, and Fig. 3 represents the handle with the same parts in section and the saw-blade projecting from the handle transversely.

A is the handle, the head of which is provided with a longitudinal slot, B, and a transverse slot, C, a set-screw, D, being tapped into the side of the head at the intersection of the two slots, so as to clamp the saw-blade with equal effect when inserted in either slot.  
40 By this construction the tool may be used with greater convenience in many contracted locations where it is necessary to hold the blade close to some interfering object. The material of the handle affords ample strength  
45 around the slots, as is shown in the sectional view in Fig. 3, the head of the handle exhibiting studs s at the two upper corners, which bind the same rigidly together under the pressure of the screw.

50 I am aware that a cast-iron handle has been made with an open recess in one side for facility of casting, the remaining side being latticed to protect the operator's hand from

the butt of the saw-blade; but I do not use any such construction in my handle, and do  
55 not find it necessary in practice. I therefore disclaim any such construction, but have devised a superior method of protecting the operator's hand from contact with the end and corners of the saw-blade when pushed  
60 partly down in the handle, while I retain the open frame-like form of handle, which is lighter to handle and easier to cast than if made as a hollow shell entirely inclosing the blade.

My construction consists in combining the  
65 open slot E, formed through the handle just below the head, with a solid cross-bar, F, to bind the sides of the handle together and prevent breakage, and in forming the edges of the slot E with grooves g, which inclose the  
70 edges of the saw-blade when pushed below the head. By the use of the grooves the blade is effectually prevented from bending side-wise under the pressure of the screw, and the solid cross-bar is much less liable to break  
75 than the slotted ones heretofore used, while it does not prevent the retraction of the blade to any extent required in use.

The use of a solid cross-bar, by strengthening the sides of the skeleton handles, also enables me to make the entire handle lighter.

I am aware of the state of the art shown in United States Patents Nos. 216,800, June 24,  
1879, 194,659, August 28, 1877, and 183,805,  
October 31, 1876, and that I cannot claim any  
85 other construction than that specifically set forth herein.

Having thus distinguished my invention from others, I claim as follows:

The flattened cast-iron saw-handle constructed with the slot B lengthwise of the handle, and the slot C across its end at right angles to the longitudinal slot, and the fasteningscrew D, inserted in the side of the handle at the intersection of the said slots, and adapted  
95 to press upon the side of the saw-blade when inserted in either of the said slots, as and for the purpose set forth.

In testimony whereof I have hereunto set my hand in the presence of two subscribing  
100 witnesses.

CHRISTOPHER RICHARDSON.

Witnesses:

THOS. S. CRANE,  
L. LEE.