

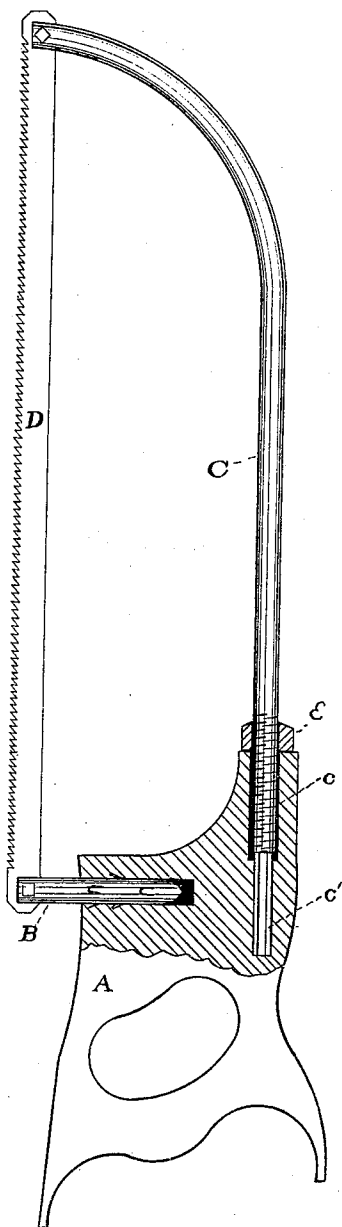
(No Model.)

J. R. WOODROUGH.

HANDSAW.

No. 252,570.

Patented Jan. 17, 1882.



WITNESSES
Horatio V. Keroll

INVENTOR
James R. Woodrough
By Geo. J. Murray
Atty

UNITED STATES PATENT OFFICE.

JAMES R. WOODROUGH, OF CINCINNATI, OHIO, ASSIGNOR TO WOODROUGH
& McPARLIN, OF SAME PLACE.

HANDSAW.

SPECIFICATION forming part of Letters Patent No. 252,570, dated January 17, 1882.

Application filed October 18, 1881. (No model.)

To all whom it may concern:

Be it known that I, JAMES R. WOODROUGH, of the city of Cincinnati, county of Hamilton, and State of Ohio, have invented certain new and useful Improvements in Saws, of which
5 the following is a specification.

The invention relates to that class of hand-saws known as "meat" and "metal" saws. Its object is a means for readily attaching and regulating the tension of the blade. These objects are attained by the means illustrated in the accompanying drawing, which is an elevation of my improved saw, a portion of the handle being broken away and shown in section, the sectional plane being coincident with
15 the blade and center of the back.

The handle A is bored from the lower edge upward to receive the heel-clip B, the shank of which is barbed to hold it firmly in place.
20 It is also bored from the forward upper end to receive the end of the back C. The outer portion of the bore is large enough to permit the screw-threaded part *c* of the back C to freely enter it, while the inner part of the bore is
25 smaller to receive the diminished angular end *c'* of the back C. The back C is a curved metal rod, having a slit and transverse perforation at the forward end to clasp and hold the leading end of the blade D. The opposite screw-threaded part, *c*, is provided with a nut, E,
30 which bears against the upper end of the handle. When the blade is secured in the clip B and forward end of the back it is tightened or slackened as desired by turning the nut E to

protrude the back farther out of the handle, 35 or to permit it to be pushed farther into it. Instead of the barbs upon piece B the shank may be screw-threaded or even left plain and tightly driven into the handle, and by making the handle relatively larger the adjusting-nut 40 E might be placed in a transverse slot cut in the handle; but the form I have shown of making my saw-back adjustable within the handle to tighten the blade is the best and cheapest.

I am aware that saws having the blade connected at the heel to a bar extending downward from the front of the handle and at the front to a curved back, the end of which is adjustably secured by means of a wedge in a slot formed in an upward extension of said bar, 50 have heretofore been used, and this construction I do not claim.

What I claim as new, and desire to secure by Letters Patent, is—

1. In a handsaw, the combination, substantially as before set forth, of the handle, the heel-clip secured thereto, the adjustable back, provided with a tightening-nut, and the blade secured with its respective ends to the heel-clip and the end of the adjustable back. 60

2. The combination, substantially as before set forth, of the handle A, the clip B, the barbed shank of which is driven into the handle, the saw-blade D, and the back C.

JAMES R. WOODROUGH.

Witnesses:

LOUIS DUHME,
GEO. J. MURRAY.