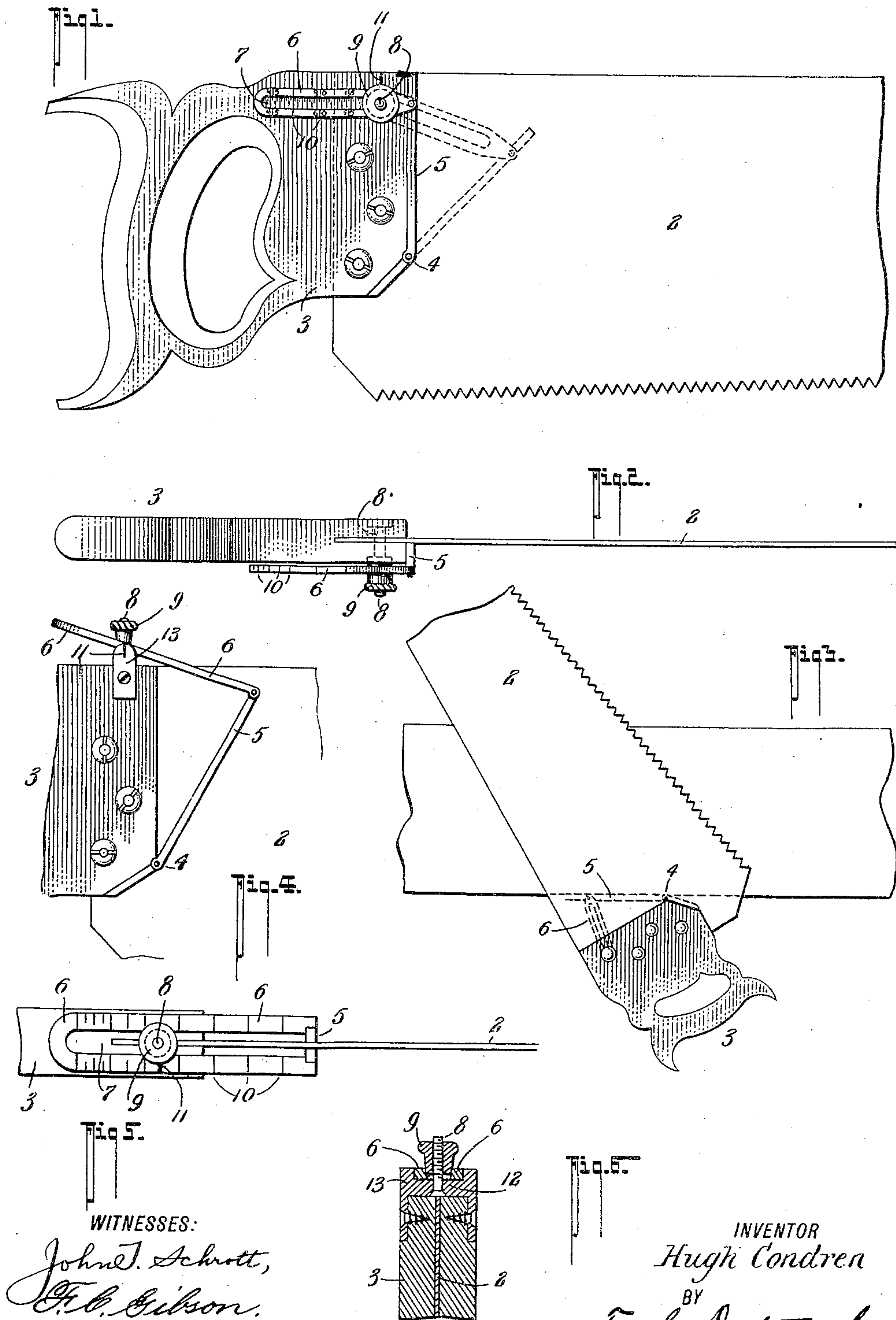


No. 808,971.

PATENTED JAN. 2, 1906.

H. CONDREN.
BEVEL GAGE FOR HANDSAWS.
APPLICATION FILED SEPT. 26, 1905.



WITNESSES:

John T. Schrott,
G. C. Gibson.

INVENTOR

Hugh Condren

BY

Fred J. Dieterich
ATTORNEY

UNITED STATES PATENT OFFICE.

HUGH CONDREN, OF VANCOUVER, CANADA.

BEVEL-GAGE FOR HANDSAWS.

No. 808,971.

Specification of Letters Patent.

Patented Jan. 2, 1906.

Application filed September 26, 1905. Serial No. 280,134.

To all whom it may concern:

Be it known that I, HUGH CONDREN, a citizen of the Dominion of Canada, residing at the city of Vancouver, in the Province of British Columbia, Canada, have invented new and useful Improvements in a Bevel-Gage for Handsaws, of which the following is a specification.

This invention relates to an attachment to a handsaw designed to enable the back of the saw-blade to be made use of to mark off any desired bevel, by which means a convenient combination of handsaw and bevel-square is attained.

The invention is fully described in the following specification and illustrated in the drawings which accompany it, in which—

Figure 1 shows the bevel attachment in its relation to the saw, the dot-and-dash lines indicating the device set to mark a forty-five-degree bevel; Fig. 2, a plan of the same. Fig. 3 shows the application of a saw having such attachment to mark off a bevel on a piece of work, and Figs. 4, 5, and 6 elevation, plan, and section of a modification.

In the drawings the blade of a handsaw is represented by 2 and the handle by 3, the end of which handle toward the saw-blade is cut square with the back of the blade. To the lower part of this squared portion of the handle is pivotally mounted on a pin 4 the bevel-bar 5, so that the bar may be angled outward to any desired bevel in relation to the back of the blade.

To the free end of the bevel-bar 5 is connected a setting-link 6, by which the bar may be set and fixed at any desired angle of bevel. This link 6 may, as represented in Figs. 1 and 2, be connected to the edge of the bar 5 and extend along the flat of the handle 3 of the saw and be provided with an elongated slot 7 to enable it to move on a screw 8, secured in the handle. This may, as shown, be a prolongation of one of the screws by which the saw-blade is secured in the handle and is furnished with a nut 9, having a milled edge by which the link may be fixed in any desired position, or, as illustrated in Figs. 4, 5, and 6, when it is desired to provide a bevel-bar 5 on each side of the saw-blade the link 6 may be open-ended and connected to the free end of each bar, and instead of being on the side the link will extend along the upper edge of the handle 3. The screw 8 for securing the link will in this case be fixed in a small attachment 12, secured to the handle, and as the

angle of the link will vary as the bevel of the bars 5 is changed and a mere downward pressure of the nut would under such conditions tend to bend the link and vary the bevel upwardly-projecting lips 13 are provided on the attachment 12 to engage the width of the link 6, and the nut 9 is tapered to enter slightly the slot 7 of the link, and so secure it. The upper edge or the face of the link 6, as the case may require, are provided with graduation-lines 10, corresponding to the various angles required, which lines when brought to a fixed zero-line 11 on the handle or the attachment 12 will set the bar to the angle corresponding to the graduation. The reach of the bar need not extend beyond the forty-five-degree angle, as each graduation may be marked with the angle and its complement, as "30" and "60", "15" and "75," *et al.*

In the application of the device the bevel-bar 5 is set, by means of the graduations on the link 6, to the desired angle and the saw applied to the work with the bar 5 against the edge, as represented in Fig. 3, when the desired bevel can then be marked along the back edge of the saw-blade.

Having now particularly described the construction of my invention, I hereby declare that what I claim as new, and desire to be protected in by Letters Patent, is—

1. As a bevel-gage, the combination with a handsaw, of a bevel-bar pivotally mounted on each side of the blade of the saw adjacent to the handle so as to be susceptible of movement in planes parallel to the face of the blade, an open-jawed link member the jaw ends of which are connected one to each free end of the bevel-bar, a seat member secured to the upper side of the handle, such seat member having upward projections to engage the width of the link, a screw secured in the seat member and projecting upward through the jaw of the link, and a milled head-nut having a tapered portion to enter between the jaws of the link and tighten them against the width-engaging projections of the seat member.

2. As a bevel-gage, the combination with a handsaw, of a bevel-bar pivotally mounted on each side of the blade adjacent to the handle, a forked link-bar pivotally secured to the bevel-bar at its free end and straddling the saw-blade, and means for clamping the link-bar in position, substantially as shown and described.

3. As a bevel-gage, the combination with a

handsaw, of a bevel-bar pivotally mounted on each side of the blade adjacent the handle, a forked link-bar pivotally secured to each bevel-bar at its free end and straddling the
5 saw-blade, means for clamping the link-bar in position, said last-named means comprising a seat member secured to the handle, said seat member having a screw portion projecting upwardly through the link member and a
10 nut for securing the link member against the seat member, substantially as shown and described.

4. As a bevel-gage, the combination with a handsaw, of a bevel-bar pivotally mounted
15 on each side of the blade adjacent the handle, a forked link-bar pivotally secured to each bevel-bar at its free end and straddling the

saw-blade, means for clamping the link-bar in position, said last-named means comprising a seat member secured to the handle, said
20 seat member having a screw portion projecting upwardly through the link member and a nut for securing the link member against the seat member, and cooperating scale-marks on the link member and seat member to indicate
25 the angular adjustment of the bevel-bar substantially as shown and described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

HUGH CONDREN.

Witnesses:

GEORGE T. ASKEW,
ROWLAND BRITAIN.