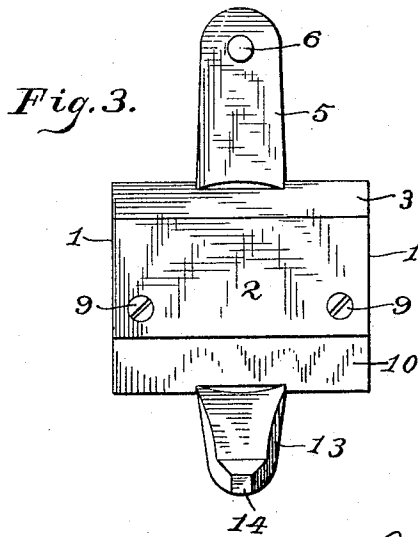
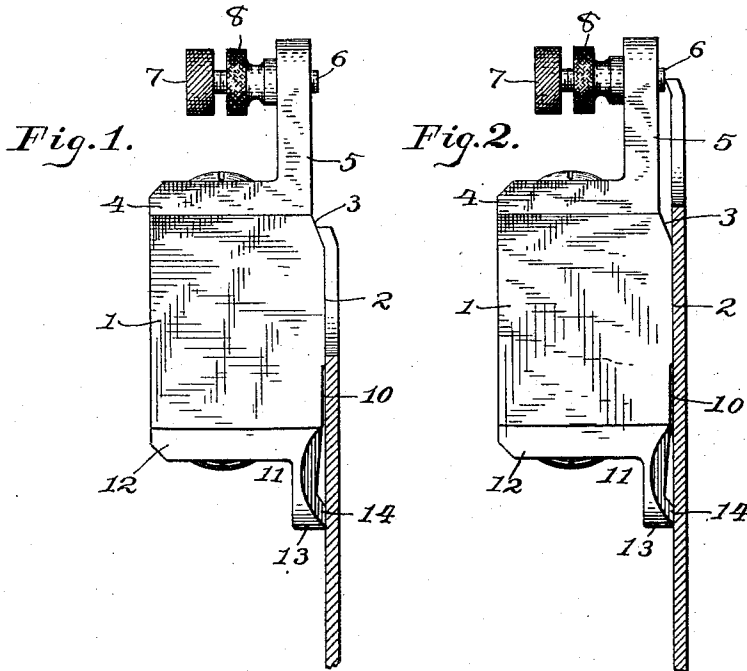


I. McMILLAN.
 COMBINED SAW SET AND GAGE.
 APPLICATION FILED AUG 22, 1913.

1,115,709.

Patented Nov. 3, 1914.



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UNITED STATES PATENT OFFICE.

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COMBINED SAW SET AND GAGE.

1,115,709.

Specification of Letters Patent.

Patented Nov. 3, 1914.

Application filed August 22, 1913. Serial No. 786,104.

To all whom it may concern:

Be it known that I, ISAAC McMILLAN, a subject of the King of Great Britain, residing at Thru Valley, Yale county, and Province of British Columbia, Canada, have invented and discovered certain new and useful Improvements in Combined Saw Sets and Gages, of which the following is a specification.

My invention relates to a combined saw set and gage and its objects are to provide a device of the type described that may be readily grasped and held in the hand of the user during the setting and gaging operations and to enable such operations to be effected while the operative face of the device occupies the same plane relative to the face of the saw blade, thereby facilitating the operation, and enabling a simpler and more compact form of device to be employed.

With these ends and others in view my invention is embodied in preferable form in the device hereinafter described and illustrated in the accompanying drawings.

In the drawings Figure 1 is a side view in elevation, showing a saw in position to be set; Fig. 2, a similar view showing the saw in gaging position and Fig. 3, a front view in elevation.

Referring to the drawings, 1 is a solid block, preferably of substantially cubical form and of a size and thickness to render it capable of being easily grasped in the hand of the saw fitter and also capable of offering substantial resistance to the shock of the setting blow. This block is provided on the operating face thereof with a flat surface 2, adapted to extend in a vertical plane when the block is in the setting and gaging positions. From the upper edge of this face extends to the upper edge of the block, a beveled face 3, constituting an anvil surface and on which the saw is adapted to be set at the proper angle.

An L-shaped bracket is mounted on the upper horizontal face of the block, one arm 4 thereof being secured, preferably by a screw, to the block and the other arm 5 extending from the edge of the anvil surface vertically upward in a plane parallel to the plane of the flat face 2.

Mounted in the arm 5 near the upper end

thereof is a regulable gage member consisting of a screw 6 having a knurled head 7. The end of the screw projects through the arm 5 and on the screw is mounted a lock-nut 8 whereby after the screw has been adjusted to the proper degree of projection, it may be locked rigidly in such position.

In the flat portion 2 of the block are mounted adjustable headless screws 9, spaced apart sufficiently to afford a support for the saw blade and also constituting regulable set gage members.

The block is cut away at 10 from the lower edge of the block, this recessed part joining the flat bearing surface 2. A bracket 11 is mounted in the lower face of the block and is provided with an attaching arm 12, and a gaging arm 13, the latter extending vertically from the lower edge of the block. This arm 13 is provided at its end with a laterally projecting boss or prong 14 forming a fixed set-gage member.

In the use of the device, the block is held in the left hand of the operator with the saw blade bearing against the flat surface 2 and a tooth projecting over the anvil surface 3. Then the tooth is struck with a hammer to bend it over the anvil and give it the desired set. Then by merely moving the block downward in the same plane until the point of the tooth is brought opposite the screw 6, the prong and the gage screws 9 are carried against the face of the blade leveling the blade and if the set is correct, the point of the tooth will just touch the outer end of the screw 6, which has been set and locked to a predetermined degree of projection. If the set is not correct the tooth is bent back or down.

In order to enable the gaging members to be adjusted to measure and fix a greater angle of set than is possible when the saw blade bears directly against the flat surface 2 of the block, the gaging screws 9 may be screwed outwardly so as to project beyond the surface of the block to the desired degree, whereupon when the saw blade is placed against the prong 14 and screws 9 and leveled thereon, the tooth edge of the blade will be projected outwardly from the block to a greater degree.

The angle of set is determined by the extent of projection of the gage screw 6.

Having thus described my invention what I claim is:

5 A combined saw set and gage having a solid hand grip block, one face thereof forming the bearing face for the saw and arms projecting in opposite directions from said block in line with said face, one of
10 said arms having a bearing member for the saw blade and the other arm provided with an adjustable gage screw, in combination with headless adjustable set screws mount-

ed in the solid block and adapted to be moved in and out with respect to said bearing face, substantially as described. 15

In witness whereof, I have hereunto set my hand and seal at Thru Valley, B. C., this ninth day of June, A. D. nineteen hundred and thirteen.

ISAAC McMILLAN. [L. s.]

Witnesses:

ALMA BURGET,
GEO. W. CARTER.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."