March 4, 1924. 1,485,847

M. J. HAHRE

RAKER GAUGE

Original Filed Oct. 17. 1922

Fig. 1.

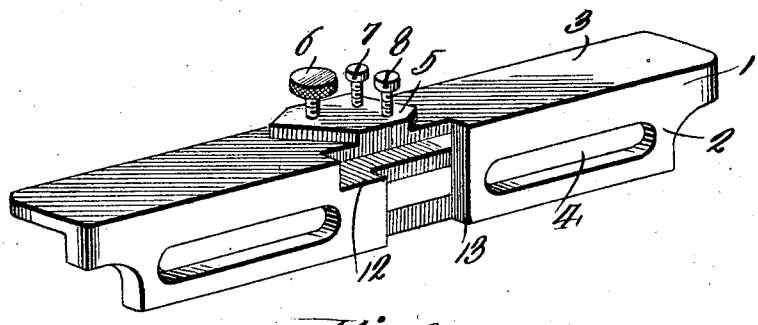


Fig. 2.

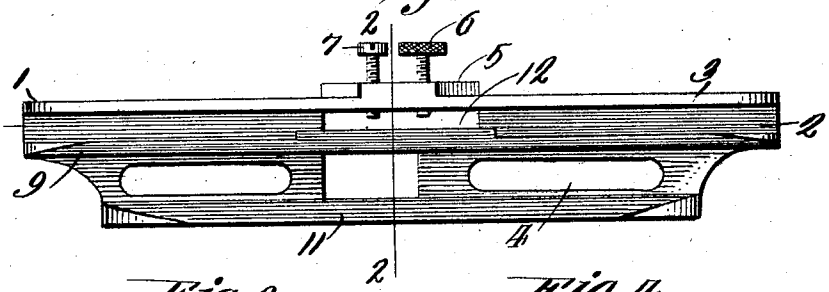


Fig. 3.

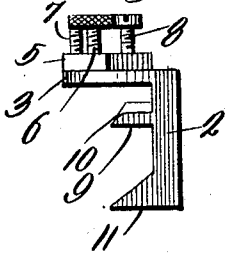
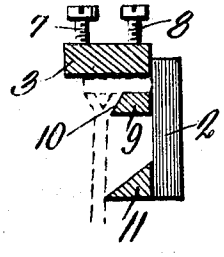


Fig. 4.



WITNESSES
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UNITED STATES PATENT OFFICE.

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RAKER GAUGE.

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To all whom it may concern:

Be it known that I, MARTIN J. HAHRE, a subject of the King of Norway, residing at Smithers, in the Province of British Columbia and Dominion of Canada, have invented certain new and useful Improvements in Raker Gauges, of which the following is a specification.

This invention relates to a saw gauge and jointer and has for its principal object, to provide a device of the above named character which will be adapted to firmly hold a file when its engaging face is at right angles to the blade of a saw for jointing the teeth of the same.

Another object of the invention is to provide a saw gauge and jointer of the above mentioned character, which will also allow the tool to be used for straightening the raker teeth of a saw, and is provided with means for holding the saw in a position whereby the operation upon the same may be easily facilitated.

Another object of the invention is to provide a saw gauge and jointer of the above mentioned character which is inexpensive, simple in its manufacture, strong and durable.

Other objects of this invention will become apparent during the course of the following description.

In the accompanying drawings:—

Figure 1 is a perspective view of the saw gauge and jointer embodying my invention.

Figure 2 is a side elevation of the same.

Figure 3 is an end view of the same, and

Figure 4 is a transverse section taken on line 2—2 of Figure 2.

In the drawings, wherein for the purpose of illustration is shown the preferred embodiment of my invention, the numeral 1 designates the body portion of my invention, and is constructed of light cast metal, and is L-shaped in cross section. The body portion consists of the front face 2 and the top flange 3. The front face 2 of the body portion 1 is provided with cut out portions 4 for the purpose of reducing the weight of the device and to further lessen the cost of the same. The top flange 3 of the body portion 1 is provided with an enlarged boss or raised portion 5 which is formed intermediate the ends of the elongated body portion, and this boss 5 carries the adjusting screws 6, 7, and 8 respectively, the purpose of which will hereinafter be fully described.

Provided on the inner wall of the front face 2 of the body portion 1 is a supporting ledge 9 which extends longitudinally of the body 1 and is arranged in spaced relation to the co-acting arm or top flange 3 of the body portion, and arranged in proximity thereto to form a support for a file and also has its outer edge bevelled as at 10 to provide a guide for the saw teeth of the saw upon which the tool is placed. A file is adapted to be rested upon the supporting ledge 9 and is further held in position by the adjusting screw 8 carried in the top flange 3 of the body portion 1. A bottom flange 11 is also provided on its inner wall of the front face 2 of the body portion 1 and is of the same width as the supporting ledge 9 for the purpose of engaging the side face of the saw while the same is in process of having its teeth jointed.

When it is desired to have the teeth of the saw jointed, the saw is placed against the supporting ledge 9 and the bottom flange 11 of the portion 1 in such a manner that the top faces of the saw teeth will bear directly against the under face of the file as shown in the dotted lines in Fig. 4 of the drawings. By further providing the supporting ledge 9 with the beveled face 10, some of the saw teeth will fit up against the inclined face and thereby further aid in keeping the saw in position while the jointing process is being undergone. In this position the body portion 1 together with the file clamped between the top flange 3 and the supporting ledge 9 is moved across the top face of the saw teeth in such a manner that the saw teeth are more easily and quickly jointed and dressed. Continual movement forward and backward of the body portion 1 on the saw will result in the saw teeth being jointed and dressed as desired.

When it is desired to regulate the length of the raking teeth of a saw, the body portion 1 has its top flange 3 and its front face 2 thereof provided with a cut out portion 12 which extends inwardly on the top flange 3 a short distance from the front

face 2 of the body portion 1, and the front face 2 has a cut out portion 13 provided therein which communicates with the cut out portion 12 for the purpose to be hereinafter fully described.

After the saw teeth have been jointed and dressed the file can be removed from between the top flange 3 and the supporting ledge 9 by means of loosening upon the screw 8. The file is then removed from its supporting position and the saw is then placed between the top flange 3 and the supporting flange 9 which in the latter capacity will act as a guide and the teeth of the saw will then extend beyond the edges of the cut out portion 12 formed in the top flange 3 of the body portion 1. After the saw is placed in such a position the adjusting screws 6, 7, and 8 are again brought into contact with the sides of the saw so as to hold the same in an operative position and a file is then placed in the cut out portion 13 formed in the front face 2 of the body portion 1 and if the raker teeth project beyond the edges of the cut out portion 12 they are filed to the required point, it being understood that the raker teeth will always be shorter than the cutting teeth. This is accomplished by moving a file across the raker teeth while in this position.

It will thus be seen that I provide a combination tool by means of which the cutting teeth of a saw may be properly jointed and dressed and the length of the teeth regulated and also by means of which the cutting teeth and the length of the raker teeth may be tested and regulated, a tool of the class described being always necessary to keep a saw in proper condition at all times.

It is to be understood that the form of my invention herewith shown and described is to be taken as a preferred embodiment of the same, and that various changes in the shape, size and arrangement of parts may be resorted to without departing from the spirit of the invention and the scope of the subjoined claims.

Having thus fully described my invention what I claim is:—

1. In a tool of the class described, an elongated body portion, L-shaped in cross-section, a groove formed on the inner side of one arm of the body portion to receive a file in one operation, and a saw in another operation, the body portion provided with a cutout portion communicating with the groove for slidably receiving a file in a further operation.

2. In a tool of the class described, an elongated body portion L-shaped in cross-section, a supporting ledge provided on the inner wall of the L-shaped body portion and extending longitudinally thereof, said supporting ledge being arranged in spaced relation to the co-acting arm of the body, and arranged in proximity thereto to form a support for a file and a guide for a saw, the front face of said body portion being provided with a cutout portion to communicate with the said supporting ledge, and a co-acting arm to form a file guide in a further operation.

3. In a tool of the class described, a body portion L-shaped in cross-section, said body portion consisting of a front face and a top flange, a supporting ledge formed on the inner wall of the front face and acting as a guide for a saw, said front face and top flange provided with a cutout portion which communicate with each other and also with the supporting ledge, clamping means carried by the top flange for clamping a saw between the supporting ledge and the top flange, the teeth of the saw adapted to extend beyond the edge of the cutout portion in the top flange, and the front face having a cutout portion provided for receiving a file.

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

MARTIN J. HAHRE.

Witnesses:
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