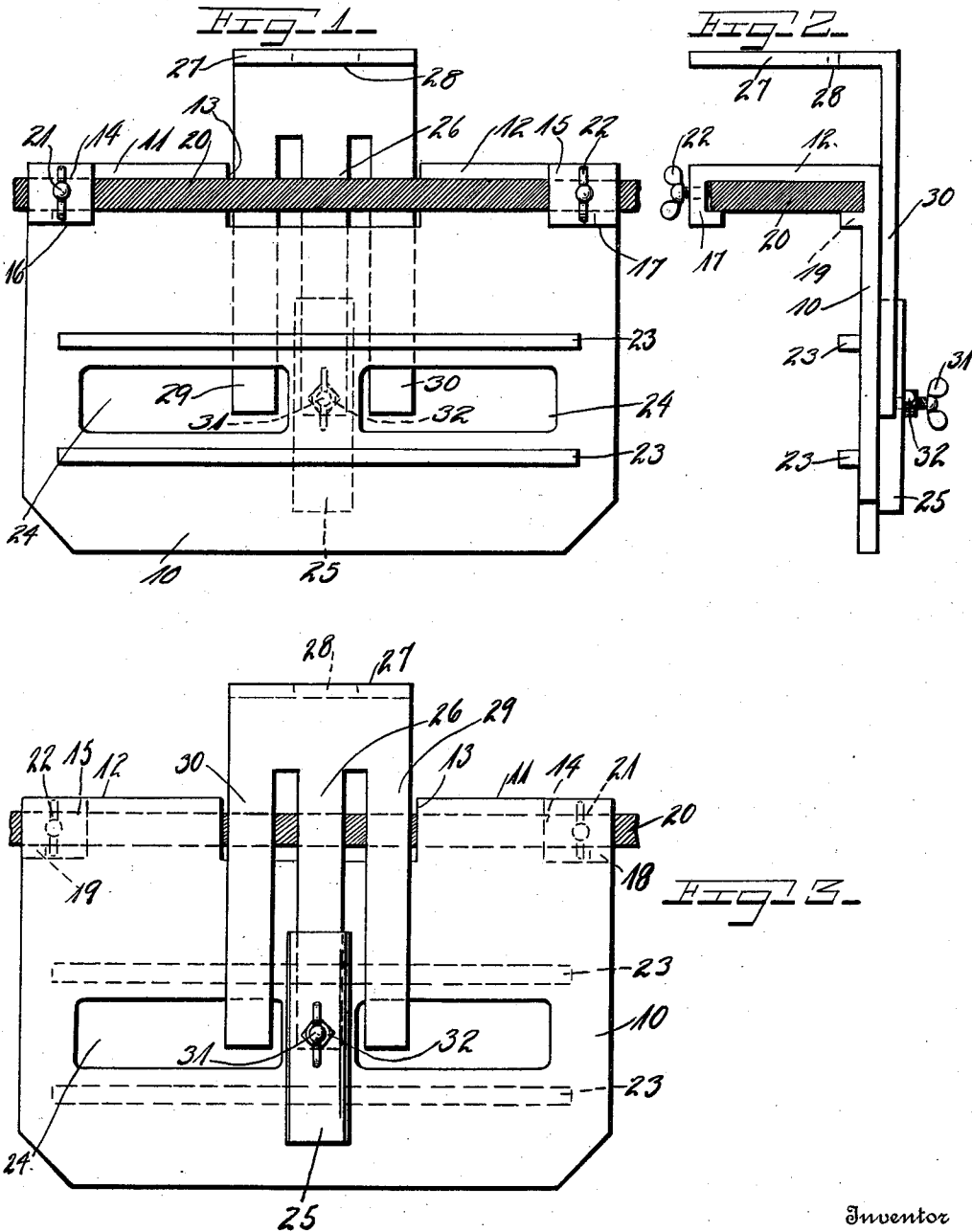


J. E. CORMICAN.
 SAW GAGE AND JOINTER.
 APPLICATION FILED JUNE 14, 1910.

1,023,415.

Patented Apr. 16, 1912.

2 SHEETS-SHEET 1.



Witnesses
 Wm. C. Fielding
 C. H. Woodward

Inventor
 John E. Cormican.

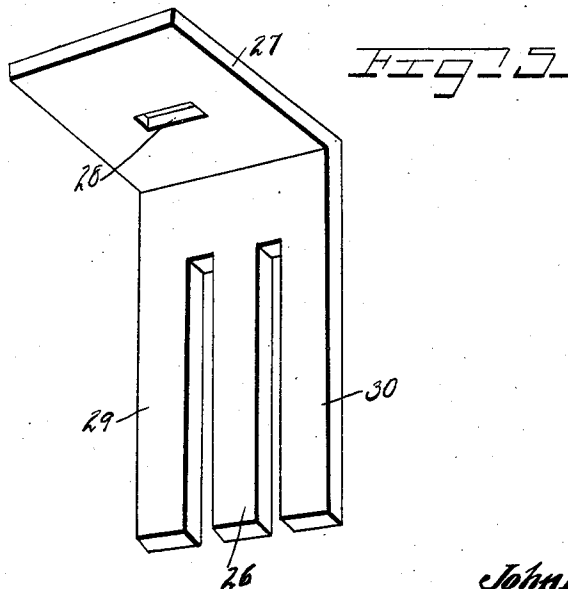
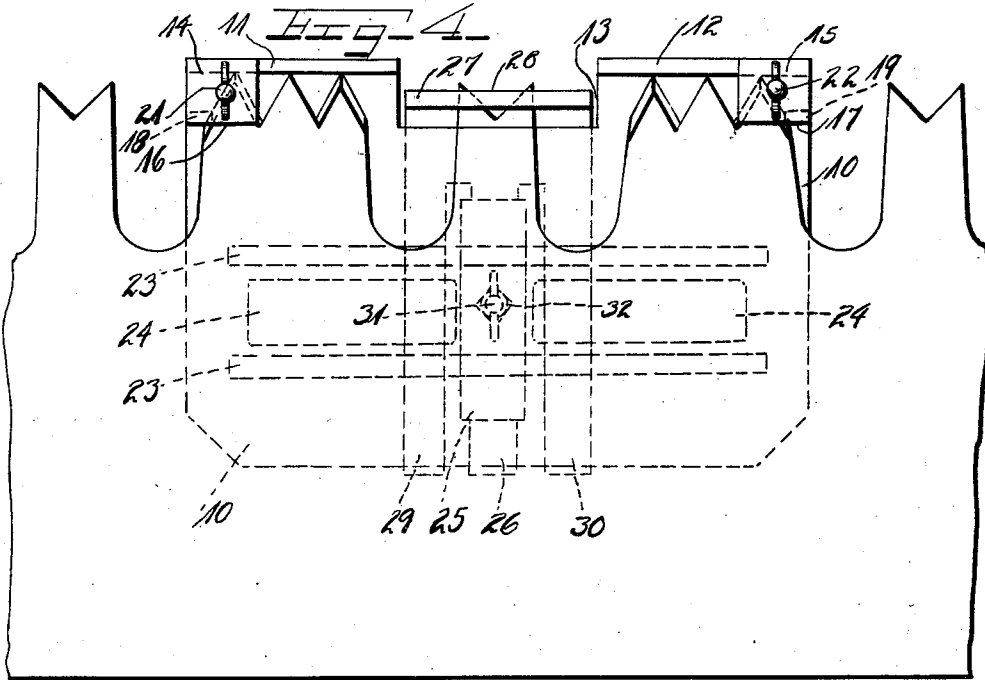
By *[Signature]*
 Attorneys

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Witnesses

Wm. C. Fiedling
C. H. Woodward

Inventor
John E. Cormican

By *[Signature]*
Attorneys

UNITED STATES PATENT OFFICE.

JOHN E. CORMICAN, OF GLIDDEN, WISCONSIN.

SAW GAGE AND JOINTER.

1,023,415.

Specification of Letters Patent.

Patented Apr. 16, 1912.

Application filed June 14, 1910. Serial No. 566,836.

To all whom it may concern:

Be it known that I, JOHN E. CORMICAN, a citizen of the United States, residing at Glidden, in the county of Ashland, State of Wisconsin, have invented certain new and useful Improvements in Saw Gages and Jointers; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to improvements in saw gages and jointers, and has for one of its objects to provide an implement which is simple in construction, easy to operate, and which may be readily employed to assist in jointing the cutting teeth of a saw prior to the filing operations, and likewise to enable the raker teeth to be accurately gaged to determine their length relative to the cutting teeth.

Another object of the invention is to provide an implement of this character which may be readily adjusted to saws having teeth of various sizes and forms.

With these and other objects in view, the invention consists in certain novel features of construction as hereinafter shown and described and then specifically pointed out in the claim; and, in the drawings illustrative of the preferred embodiment of the invention, Figure 1 is a front elevation of the improved device, Fig. 2 is an end elevation of the same, Fig. 3 is a rear elevation of the improved device, Figs. 1, 2 and 3 showing the device arranged for use in jointing the cutting teeth, Fig. 4 is a view similar to Fig. 1 showing the implement arranged for use in "gaging" the raker teeth, Fig. 5 is a perspective view of the raker tooth gage bar detached.

The improved device comprises in general two parts, a main base frame having means for supporting a jointer file and a member adjustably connected to the main frame and adapted to regulate the lengths of the raker teeth. The main frame comprises a plate-like member 10 having lateral offsets 11—12 at its upper edge and a central recess or cavity 13 between the confronting ends of the offsets. The offset 11 is provided with a file-supporting bracket 14, while a similar bracket 15 is formed upon the offset 12, the brackets being provided respectively with inwardly directed ribs 16—17, while sup-

porting lugs 18—19 project from the inner face of the plate 10. The brackets with their ribs and the lugs form supports for a jointing file indicated at 20, the file being held in position by clamp screws 21—22 operating through the brackets. Formed upon the inner face of the plate 10 are guide ribs 23 which bear against one face of the saw and retain the plate 10 in spaced relations to the saw, as hereinafter explained.

The plate 10 is preferably formed with relatively large openings 24 to reduce the weight. Formed upon the outer face of the plate 10 is a guide socket 25, and adjustably engaging in this guide socket is a bar 26 having a lateral projection 27 at its upper end which operates in the recess 13 of the plate. The offset 27 is provided with a central aperture 28 through which the raker teeth one at a time project as the device is adjusted upon the saw, while lateral guides 29—30 are arranged to operate upon the outer sides of the socket 25, as shown in Fig. 3. By this means the member 27 with its guide bars is held rigidly in position and prevented from lateral movement when in use. A set screw 31 operates through the socket 25 to engage against the bar 26 and thus lock the offset 27 in any adjusted position. The set screw 31 may be provided with a jam nut 32 if found necessary. With a device thus constructed when the cutting teeth are to be jointed the set screw 31 is released and the offset 27 elevated above the line of the brackets 11—12 so that it is out of the way and the file disposed within the brackets 11—12 and the set screws 21—22 actuated to hold the file rigidly in position. The base 10 is then placed with its ribs 23 against one side face of the saw with the file resting upon the cutting teeth and the implement drawn back and forth along the file until the cutting teeth are of uniform height or "jointed" ready for the filing operation. The file is then removed and the implement disposed upon the saw with the offsets 11—12 resting upon two sets of the jointed cutting teeth, and the offset 27 adjusted until the raker tooth above which the implement is supported projects through the opening 28 and the offset 27 adjusted until the upper surface of the offset is in position to correspond to the desired length of the raker tooth. The surplus end of the latter is then filed off until it is level with the upper face

of the offset 27, and the implement moved along to the next raker tooth, and so on continuously until all of the raker teeth have been filed down to the uniform height and at
5 the requisite distance below the points of the cutting teeth. The cutting teeth are then filed in the ordinary manner. The plate 10 with its offsets 11—12 and its brackets 14—15 together with the various file supporting ribs and the saw gaging ribs will be cast in one single piece and planed or otherwise dressed to the requisite uniformity, while the bars 26—29—30 and the offset 27 will also be cast in one piece and machine-dressed as required. The outer surface of
15 the offset 27 will preferably be hardened to resist the action of a file.

The improved device is simple in construction, can be inexpensively manufactured and of any required size, and will
20 greatly assist the operator in jointing and filing a saw and insures the uniformity of

the teeth, and materially decreases the labor necessary to joint and file a saw.

What is claimed is:—

25 An implement of the class described, comprising a body having spaced lateral offsets and with a recess between the offsets, said body having a socket formed on its outer face, a bar slidable in said socket and extending beyond the same and terminating in a
30 lateral offset operating within the recess, said offset having an aperture adapted to receive a raker tooth, said apertured offset having guides parallel to and spaced apart
35 from said bar and arranged to operate upon the outer sides of the socket, and means for adjustably coupling said bar in its socket.

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

JOHN E. CORMICAN.

Witnesses:

GEORGE SELL,
RUBIN SELL.

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