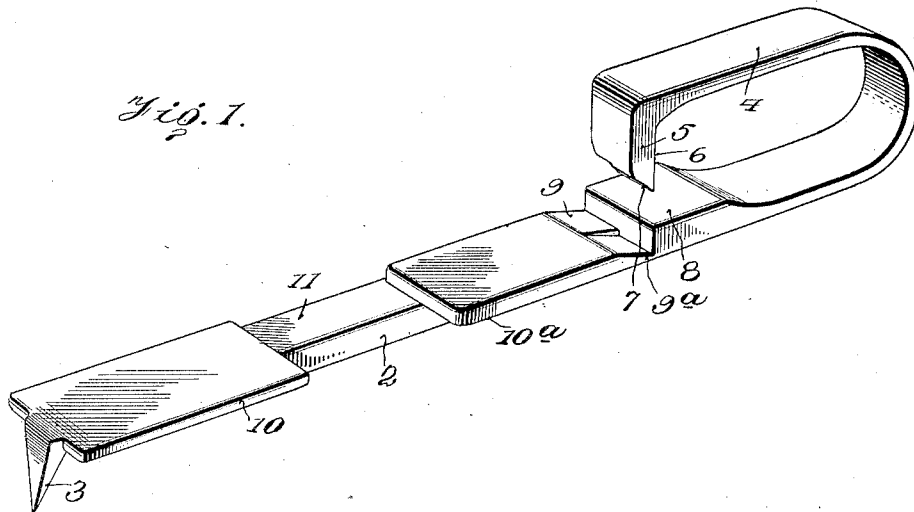
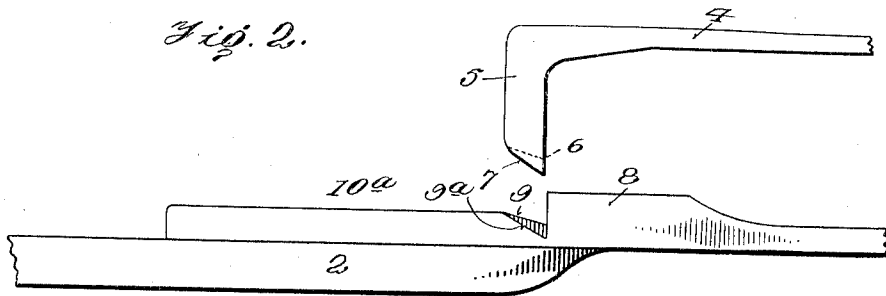


V. S. GOODSSELL.
 SAW SET AND RAKER GAGE.
 APPLICATION FILED MAY 9, 1910.

1,009,737.

Patented Nov. 28, 1911.



Witnesses
H. H. Woodson,
J. M. Hall,

Inventor
Virgil S. Goodsell

By *H. H. Woodson,* Attorneys.

UNITED STATES PATENT OFFICE.

VIRGIL S. GOODSSELL, OF SOUTH MILFORD, INDIANA.

SAW-SET AND RAKER-GAGE.

1,009,737.

Specification of Letters Patent.

Patented Nov. 28, 1911.

Application filed May 9, 1910. Serial No. 560,248.

To all whom it may concern:

Be it known that I, VIRGIL S. GOODSSELL, citizen of the United States, residing at South Milford, in the county of La Grange and State of Indiana, have invented certain new and useful Improvements in Saw-Sets and Raker-Gages, of which the following is a specification.

My invention relates to devices for setting saw teeth or cross-cut saws and for gaging the raker teeth thereof.

My invention consists in the arrangement of parts and details of construction as set forth in the claims appended.

For a full understanding of the invention reference is to be had to the following description and accompanying drawings, in which:

Figure 1 is a perspective view of my saw-set tool. Fig. 2 is an enlarged fragmentary side elevation of a portion of the same.

Corresponding and like parts are referred to in the following description and indicated in all the views of the accompanying drawings by the same reference characters.

Referring to these figures, 2 designates the body of the saw-set having at one end the point or brad 3 which may be driven into the work-bench and will act to hold the saw-set in position. The other end of the body is bent over upon itself to form a spring member 4 or jaw, the extremity of which carries the hammer 5. This hammer is formed with a straight rear face 6 and an inwardly beveled face 7.

The body of the tool beneath the hammer carrying jaw is formed with an integral shoulder 8 which extends entirely across the upper face of the body and whose edge-face is in alinement with the inside face of the hammer 5. The upper face of the body just immediately in front of the shoulder 8 is formed with a transverse depression 9, one side of which is in alinement and merges into the face of the shoulder 8, while the other side is upwardly inclined to conform to the inclined or beveled face of the hammer. Preferably I form one end of the depression or transverse groove deeper than the other as at 9^a and also form the corresponding end of the hammer 5 longer than the other end of the hammer. By this means I can give more or less set to the saw-teeth as may be required.

The upper face of the body portion is formed with projecting flanges 10 and 10^a

spaced from each other to form the raker gage 11 for the purpose of filing off the rakers or cleaning teeth of the saw the desired length to properly clean the cut in a manner well understood in the art.

In operation when it is desired to set the teeth of the saw the saw is laid upon the upper face of the body portion of the tool with its teeth projecting over the depression or groove 9. After the saw is in place, the hammer 5 is struck and forced downward, and the tooth of the saw immediately beneath the hammer is forced downward and into the depression and against the inclined face thereof, thus giving it the proper angle to the saw-blade. Every alternate tooth is thus acted upon and the saw is then turned over and the remaining teeth are treated as described.

My invention is very simple, easily operated and may be very cheaply made.

It will be seen that a relatively long surface is provided for the saw to rest upon and that the saw when in position with its teeth projecting over the groove or depression 9 is firmly held, by reason of the shoulder 8 against which the teeth of the saw contact, thus preventing any chance of the saw shifting when the hammer is struck.

Having thus described the invention what is claimed as new is:—

1. A saw set of the character described, comprising a body portion, one end of the body portion being returned upon itself and forming a resilient supporting arm, a downwardly extending hammer formed on the end of the arm, the inside face of the hammer being straight and the outside face being inclined, the upper face of the body portion being provided with a shoulder whose end is in alinement with the inner face of the hammer, the upper face of the body portion just in front of the shoulder being formed with a transverse depression adapted to receive the hammer, said depression having a straight face and an inclined face corresponding with the faces of the hammer.

2. A saw-set of the character described, comprising a body portion, one end thereof being returned upon itself to form a spring arm, a hammer formed integral with the extremity of the arm and provided with a straight face on one side, the other side of the hammer having a plurality of faces having different angular relations to the straight

face of the hammer, the upper face of the
body portion being provided with a shoul-
der whose end is in alinement with the inner
face of the hammer, the upper face of the
5 body portion being also formed with a trans-
versely extending groove just in front of
said shoulder into which the hammer is
adapted to be received, one side of the
groove being perpendicular to the face of
10 the body and the other side being formed
with a plurality of faces differing from each
other in their angular relations to the face
of the body portion and conforming to the
angular faces of the hammer.
15 3. A saw set including a fixed female die
and a coacting movable male die mounted
above the fixed female die and movable into
engagement with the same, the movable die
being formed with a straight face on one

side, the other side of the die having a 20
plurality of faces inclined toward the lower
edge of the male die and having different
angular relations to the straight face, the
female die being formed to receive the male
die, one side of the female die being parallel 25
to the straight face of the male die and the
other side of the female die being formed
with a plurality of faces differing from each
other in their angular relation to the first
mentioned face of the female die and co- 30
acting with the angular faces of the male die.

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

VIRGIL S. GOODSSELL. [L. S.]

Witnesses:

GEORGE TEMPLE,
LEE M. NICKELL.

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