

(No Model.)

H. L. KINCAID.

HANDLE FOR CROSSCUT SAWS.

No. 381,796.

Patented Apr. 24, 1888.

Fig. 1.

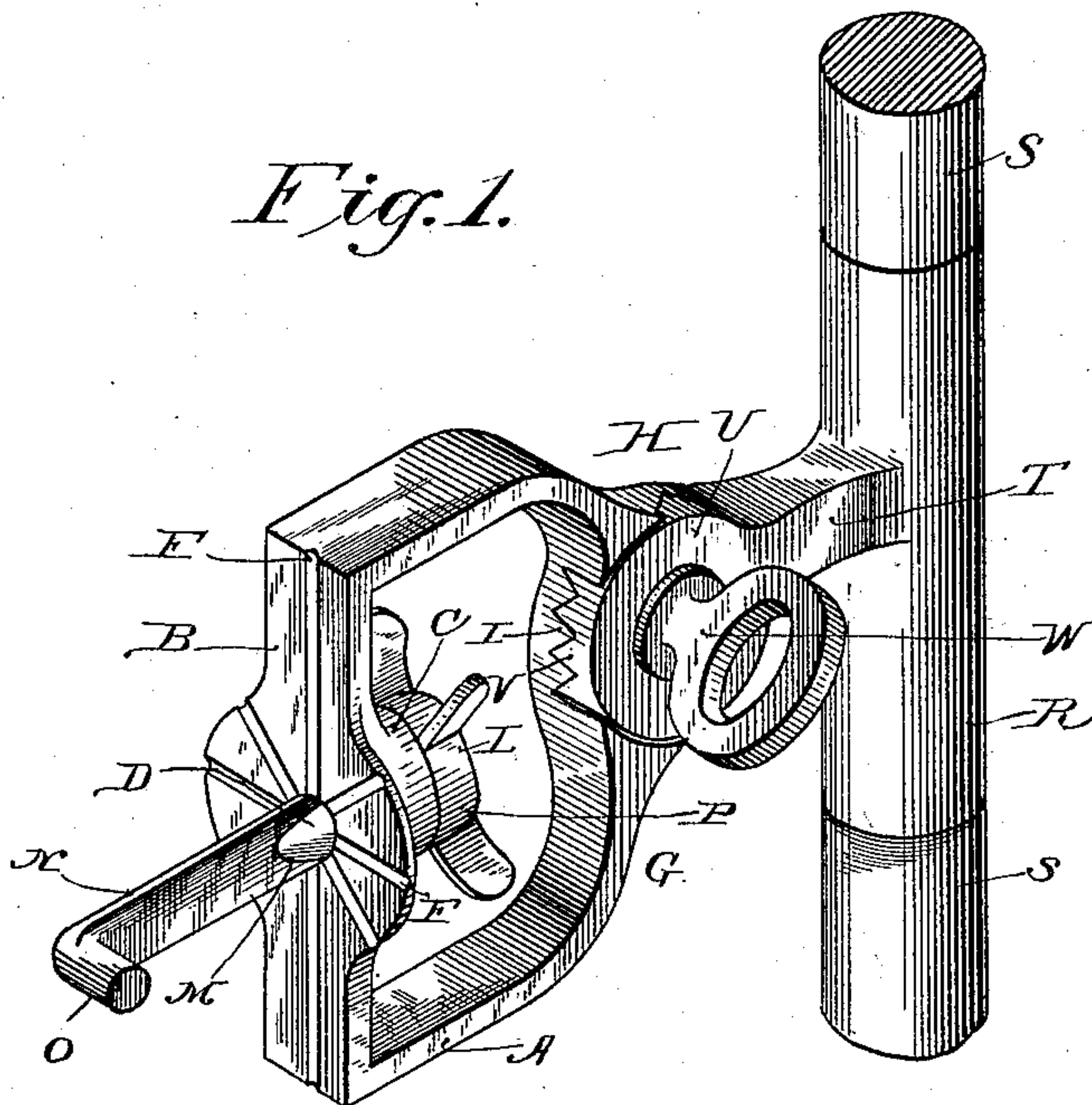
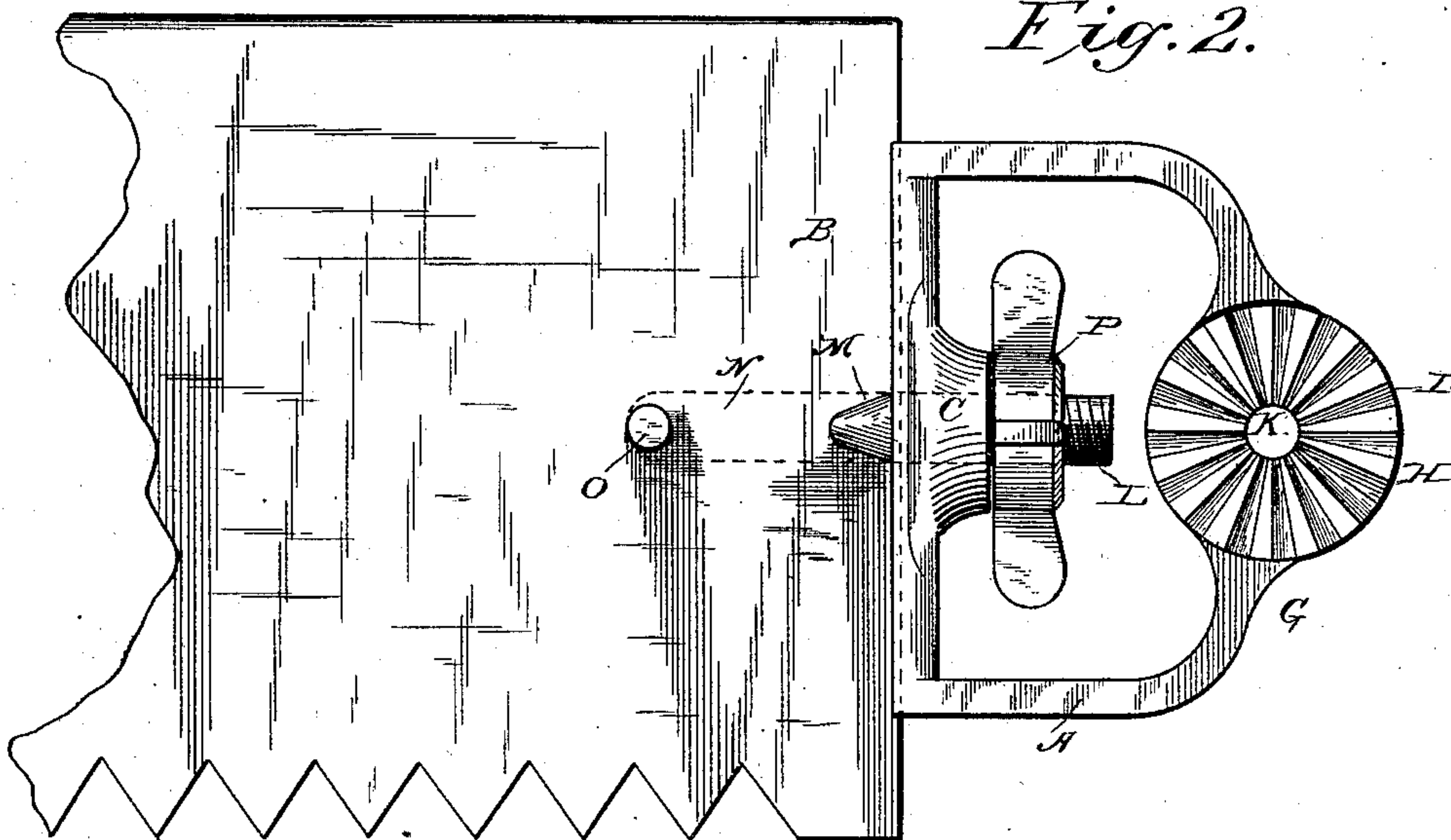


Fig. 2.



Witnesses,
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UNITED STATES PATENT OFFICE.

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HANDLE FOR CROSSCUT-SAWS.

SPECIFICATION forming part of Letters Patent No. 381,796, dated April 24, 1888.

Application filed November 15, 1887. Serial No. 255,211. (No model.)

To all whom it may concern:

Be it known that I, HENRY L. KINCAID, a resident of York, in the county of Meagher, and Montana Territory, have invented certain
5 new and useful Improvements in Handles for Crosscut-Saws; 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 pertains to make
10 and use the same.

My invention relates to an improvement in handles for crosscut-saws; and it consists in the peculiar construction and combination of devices, substantially as is hereinafter set
15 forth and described.

The object of my invention is to provide a device wherewith a handle may be readily attached to a crosscut-saw and by means of which the handle may be adjusted to any desired
20 angle with relation to the saw, so that the person using the saw will not be compelled to keep his body in a constrained position.

In the accompanying drawings, Figure 1 is a perspective view of a saw-handle embodying my improvements. Fig. 2 is an elevation
25 of a part of the same attached to a saw.

A represents a yoke, made of cast metal, substantially in the form of the letter **D**, with the broad flattened inner arm, **B**, on the inner side
30 of which is formed a circular projecting boss, **C**. An opening, **D**, is made through the center of the said arm and through the said boss, and from the said opening radiate channels or grooves **F**, which are made in the face of the
35 arm **B** and are arranged at suitable angles. The outer arm, **G**, of the yoke is provided at its center with a circular enlargement, **H**, having a countersunk recess on one side, the face of which is provided with corrugations **I**, that
40 radiate from a central transverse threaded opening, **K**.

L represents a clamping-screw, which fits loosely in the opening **D** and is adapted to turn therein. The inner end of this screw has
45 a notch, **M**, to receive the inner end of the saw-blade, and has a projecting arm, **N**, one side of which is flattened to bear snugly against one side of the saw-blade, and at the end of said arm is a right-angled hook or stud, **O**, that
50 enters an opening in the saw-blade; as shown in Fig. 2. On the threaded end of the screw is fitted a thumb-nut, **P**, which bears against the

boss and serves to draw the screw firmly inward in the yoke, so as to clamp the saw-blade rigidly thereto, with the inner end of said blade
55 fitting in one of the grooves **F**. The said grooves prevent the blade from turning on the yoke, as will be readily understood. By first loosening the thumb-nut **P** the clamp-screw may be moved outward sufficiently to permit
60 the end of the blade to be inserted in another of the radial channels or grooves, and thereby adjust it at any desired angle with relation to the yoke.

R represents a cylindrical sleeve, which is
65 adapted to receive a bar, **S**, of suitable length and diameter, and which is grasped by the sawyer.

From one side of the sleeve, at the center thereof, projects an arm, **T**, the outer end of
70 which is provided with a circular head, **U**, that is adapted to fit in the countersunk recess in the enlargement **H**, and is provided on one side with radial corrugations **V**, adapted to engage the corrugated face of the said en-
75 largment, and thereby enable the arm to be connected to the yoke at any desired angle.

W represents a thumb-screw, which passes through a central opening in the head **U** and engages the threaded opening **K**, and thereby
80 serves to clamp the arm **T** to the yoke.

The purpose in constructing a yoke of the form herein shown and described is to locate accessibly the screw and nut within the yoke.

A saw-handle thus constructed is especially
85 adapted for use in felling and sawing up large trees and heavy logs, and will be found of great practical utility and convenience by lumbermen and woodmen.

Having thus described my invention, I
90 claim—

1. A saw-handle consisting of a yoke approximately in the form of the letter **D**, and a clamping-screw and nut located within the yoke, said screw being provided with an arm
95 passing through one of the faces of said yoke and having a recess adapted to receive the inner end of a saw-blade, and also having a hook or stud which is adapted to enter an opening in the saw-blade, substantially as described. 100

2. A saw-handle consisting of a yoke approximately in the form of the letter **D** and having a flattened arm with a central aperture, and provided with channels or grooves dia-

metrical with reference to said aperture, and the clamping-screw projecting through said aperture and revoluble therein, said screw having a diametrical recess adapted to register with
5 the channels or grooves and to receive the inner end of the saw-blade, and also provided with a hook or stud adapted to enter an opening in the saw-blade, substantially as described.

3. The combination of the yoke A, the device to clamp the saw-blade thereto, the sleeve to receive a bar or handle pivotally jointed to the yoke at right angles to the axis of the latter, and the screw W, to clamp the said sleeve to the said yoke, substantially as described.
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4. The combination of the yoke A, having the countersunk recess on one side of its outer arm, the clamping device to secure the inner
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end of the saw-blade to the inner arm of the yoke, the sleeve to receive the handle, having the arm T at right angles thereto provided with the head fitting in the recess, and the clamping-screw W, arranged at right angles to the axis of the yoke, securing the said head in the said recess, the opposing sides of the head and the recess being provided with matched
20 radial corrugations, substantially as described.

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

HENRY L. KINCAID.

Witnesses:

D. SPRATT,

THOS. H. SPRATT.