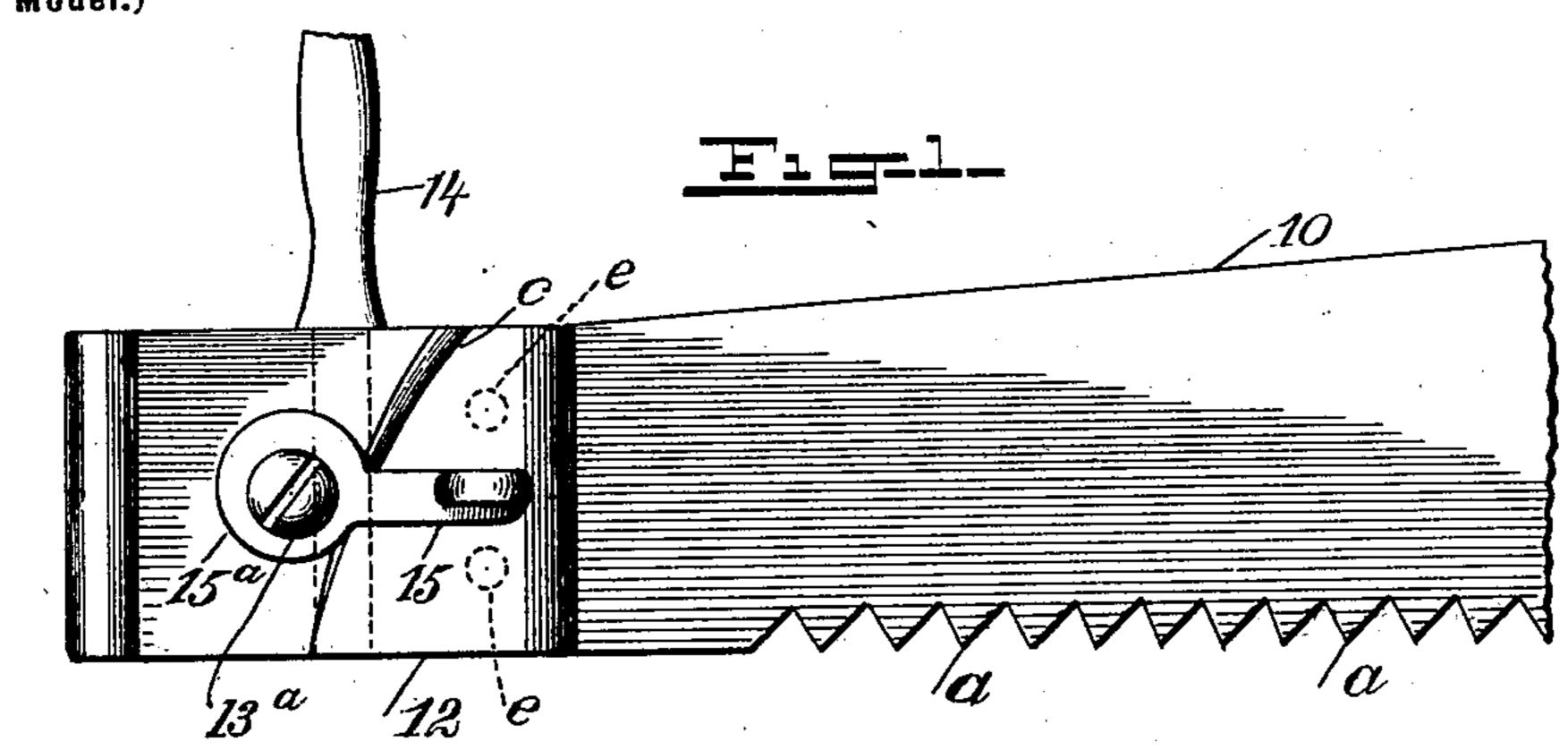
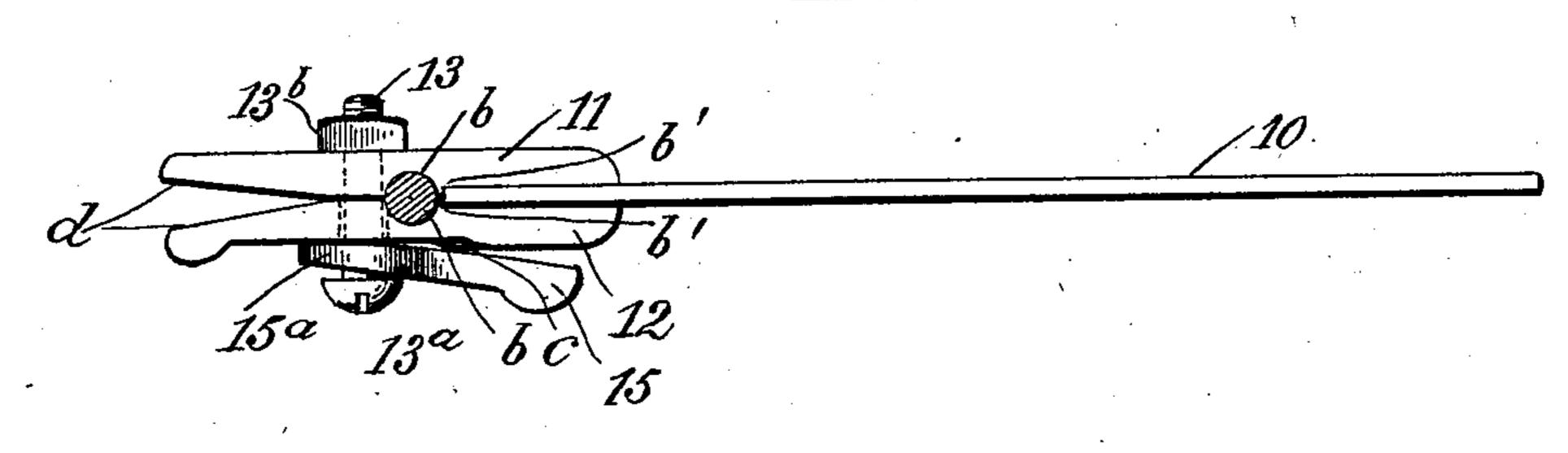
J. A. HALE.

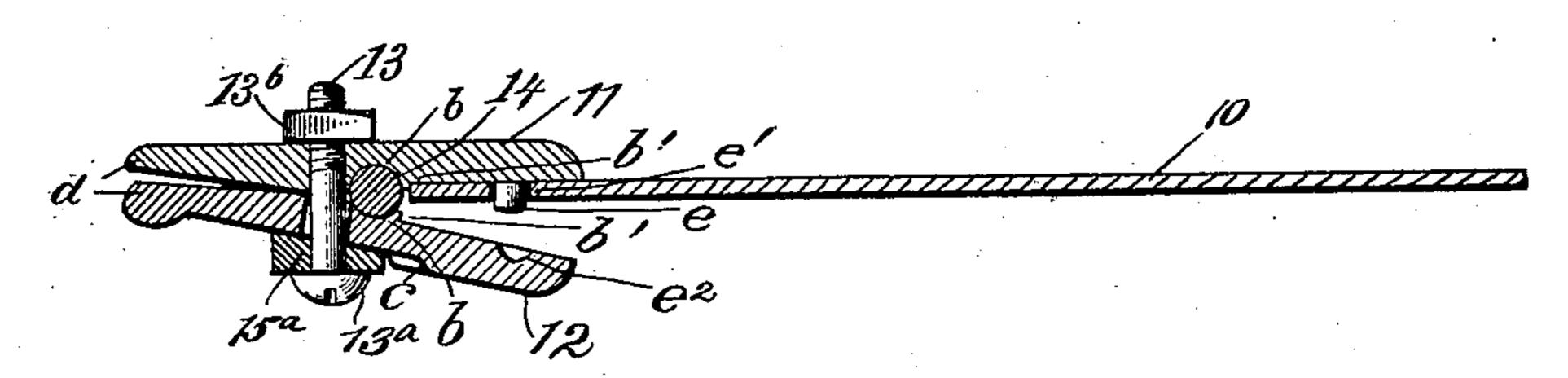
SAW HANDLE CLAMP.

(Application filed Aug. 20, 1901.)

(No Model.)







WITNESSES .

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JOHN ALBERT HALE, OF ROCKVILLE, INDIANA.

SAW-HANDLE CLAMP.

SPECIFICATION forming part of Letters Patent No. 698,936, dated April 29, 1902.

Application filed August 20, 1901. Serial No. 72,689. (No model.)

To all whom it may concern:

Be it known that I, JOHN ALBERT HALE, a citizen of the United States, and a resident of Rockville, in the county of Parke and State 5 of Indiana, have invented a new and Improved Saw-Handle Clamp, of which the following is a full, clear, and exact description.

This invention relates to a class of handles that are attachable to the ends of hand-op-10 erated crosscut or ripping saws, and has for its object to provide a novel device of the indicated character which is very simple, is readily attachable or removable from the sawblade, and which will reliably hold the saw-15 blade in connection with the handles.

The invention consists in the novel construction and combination of parts, as is hereinafter described, and defined in the appended

claims.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the figures.

Figure 1 is a side view of the improvement 25 applied upon one end of a saw-blade. Fig. 2 is a plan view of the device holding a sawblade and handle therefor, the handle being in section; and Fig. 3 is a longitudinal sectional view showing the clamping device ad-30 justed to release the saw-blade.

The saw-blade 10 may have any preferred form of teeth, and near each end thereof the teeth a are dispensed with, affording a stub end at each extremity of the saw-blade for 35 engagement of the novel handle-securing devices. The saw-handle clamps for each end of the saw-blade being similar, the illustration and description of one of said devices will serve for both, and, as shown, comprises

40 the following details:

Two clamping-jaws 11 12 are provided, alinement, these transverse holes receiving the bolt 13, having a head 13° on one end and 45 a nut 13b on the opposite end. Each jaw 11 12 at the front of the cross-bolt 13 is grooved, as at b, vertically, these similar semicircular grooves together affording a channel for reception of a shank portion of the handle-bar 50 14, that is thus held upright for manipulation. Equal shoulders b' are formed imme-

reduction in thickness of the jaws in the portions that extend away from the shoulders b'. Upon the outer side of the jaw 12 a cam-shoul- 55 der c is formed, which is of greatest projection at the upper edge of the jaw 12 and thence gradually diminishes as it curves down toward the lower edge thereof.

A cam-lever 15, having a cam-head 15^a on 60 one end, is mounted upon the bolt 13, the perforation in the cam-head being eccentric to its edge, and, as shown, the body of the camhead is given wedge shape, the thickest edge of which is farthest removed from the perfo- 65

ration of the cam-head.

The inner surfaces of the opposite end portions of the jaws 11 12 are sloped from the bolt-holes therein to the ends of the jaws, as shown at d, and as the bolt 13 fits loosely in 70 the holes it is inserted in the jaws and permitted to rock on it, so as to spread them apart in advance of the shoulders b'. Upon the forward inner surface of the jaw 11 two studs e are projected therefrom and spaced 75 apart transversely.

There are mating sockets e^2 formed in the jaw 12 oppositely from the studs e, and the latter may enter their ends within said sockets when the jaws are rocked toward each 80

other at their forward ends.

In the stub end of the saw 10, which is to be clamped by the device just described, two perforations e' are formed, which will receive the studs e, this engagement of parts being 85 readily effected if the cam-lever is adjusted so as to remove the cam-swell on its head from the cam-shoulder c, as indicated in Fig. 3.

It will be seen that if the jaw 12 is rocked on the bolt 13, so as to clamp the stub end of 90 the saw between the portions of the jaws 11 12, which are extended forwardly of the shoulders b' after insertion of the studs e into the which are perforated near their centers in | perforations e', this clamping adjustment may be enforced and rendered reliable by 95 rocking the cam-lever 15 into the position shown in Figs. 1 and 2, which will dispose the thicker portion of the cam-head 15° in contact with the cam-shoulder c, and the bearing of the cam-head thereon will obviously 100 pull upon the bolt 13, so as to clamp the saw between the jaws.

The provision of the nut enables the addiately forward of the grooves b by an equal | justment of the jaws 11 12 and lever 15 rela-

tively to each other, so that wear of the camhead 15° and cam-shoulder c may be compensated for in an obvious manner.

Having fully described my invention, I claim as new and desire to secure by Letters

Patent—

1. A saw-handle clamp, comprising two jaws, a bolt rockably connecting said jaws, a cam-lever adapted to draw opposed ends of the jaws toward each other, and a handle-bar

clamped between the jaws.

2. A saw-handle clamp, comprising two jaws, a bolt rockably connecting said jaws, a cam-shoulder projecting from the outer side of one jaw, a cam-lever pivoted on the bolt and adapted to press the cam-shoulder when rocked toward it, and a handle-bar clamped between the jaws.

3. A saw-handle clamp, comprising two

jaws adapted to receive the stub end of a saw-20 blade between inner faces of their forward ends, studs on one of said faces that may pass through perforations, in the stub end, a bolt rockably connecting said jaws, a camshoulder projected from the outer side of one 25 jaw, a cam-lever pivoted on the bolt and adapted to press the cam-shoulder when rocked toward it, and a handle-bar clamped in grooves oppositely formed in the jaws and extended upright therefrom.

In testimony whereof I have signed my name to this specification in the presence of

two subscribing witnesses.

JOHN ALBERT HALE.

Witnesses:
HENRY DANIELS,
MONROE LANG.