No. 806,515. PATENTED DEC. 5, 1905.

J. BAUMGARTNER.

SAW.

APPLICATION FILED MAY 13, 1905.

2 SHEETS—SHEET 1.

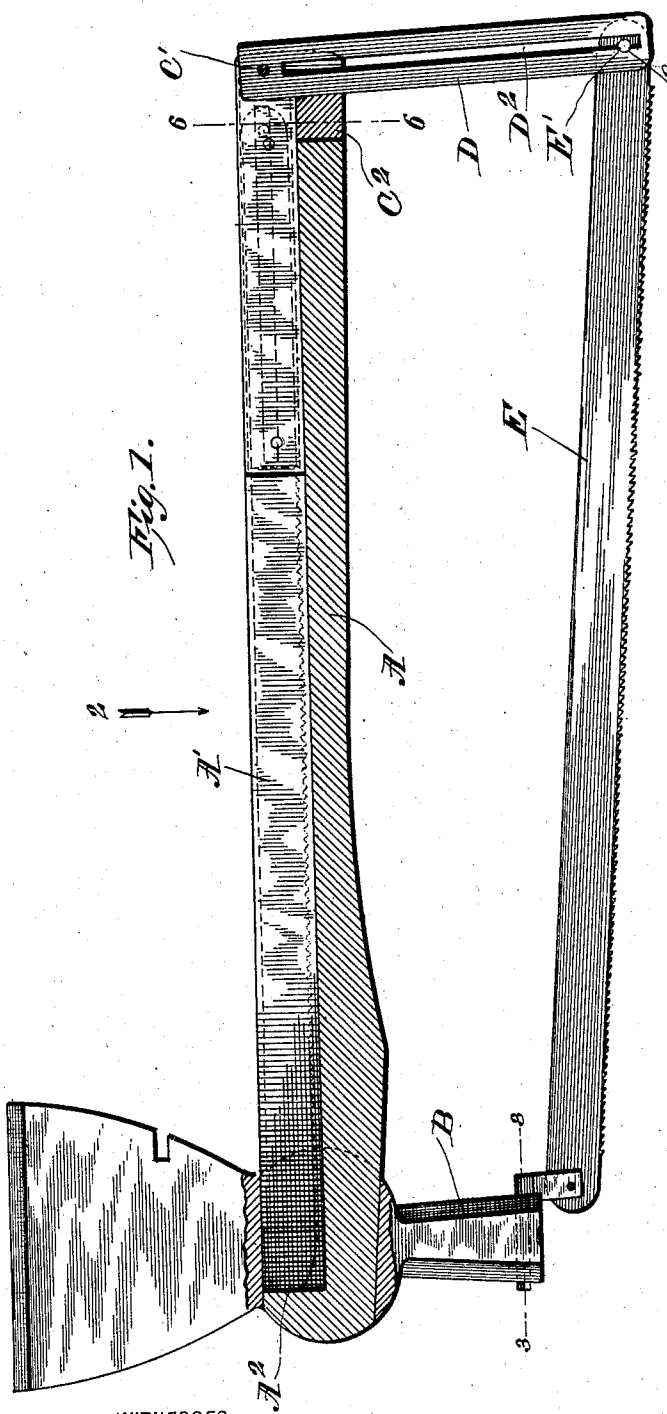


Fig. 1.

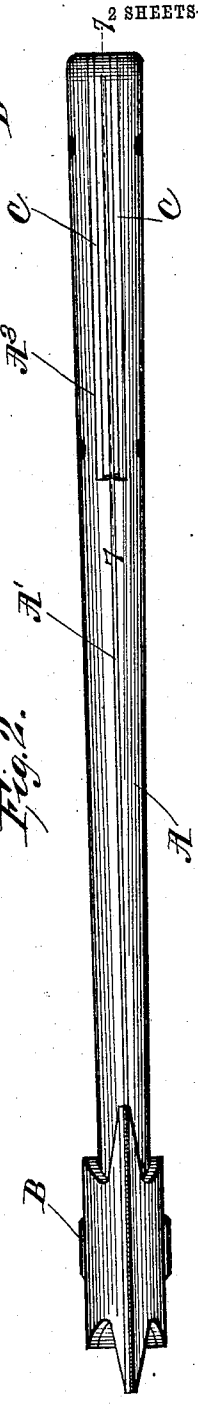


Fig. 2.

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2 SHEETS—SHEET 2.

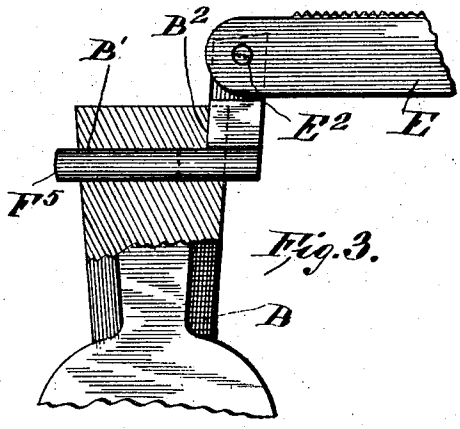


Fig. 3.

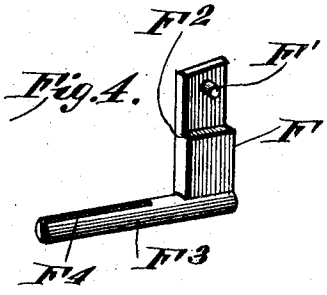


Fig. 4.

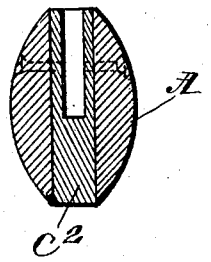


Fig. 6.

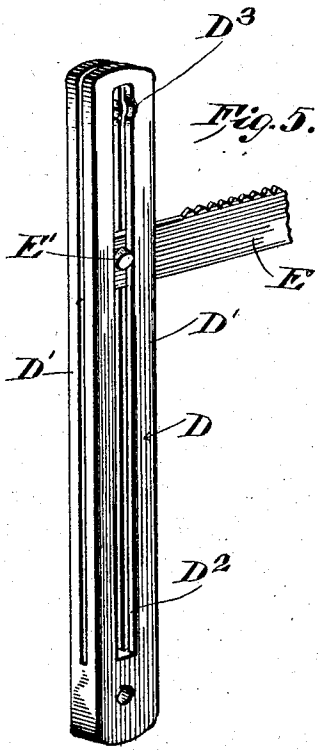


Fig. 5.

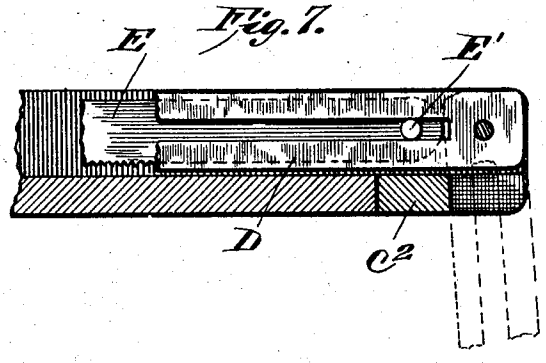


Fig. 7.

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UNITED STATES PATENT OFFICE.

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SAW.

No. 806,515. Specification of Letters Patent. Patented Dec. 5, 1905.

Application filed May 13, 1905. Serial No. 260,290.

To all whom it may concern:

Be it known that I, JOSEPH BAUMGARTNER, a citizen of the United States, and a resident of Silverton, in the county of Marion and State of Oregon, have made certain new and useful Improvements in Saws, of which the following is a specification.

My invention is an improvement in saws, being in the nature of a combination hatchet and saw; and the invention consists in certain novel constructions and combinations of parts, as will be hereinafter described and claimed.

In the drawings, Figure 1 is a sectional side elevation of a device embodying my invention, the handle-bar being shown in section and the saw being adjusted into position for use. Fig. 2 is an edge view of the device, taken in the direction of the arrow No. 2 on Fig. 1. Fig. 3 is a detail view showing the hammer-head in section and the blade-securing device in place therein. Fig. 4 is a detail perspective view of the blade-securing device, Fig. 5 is a detail perspective view of the swinging carrier for one end of the saw-blade. Fig. 6 is a cross-section on about line 6 6 of Fig. 1, and Fig. 7 is a longitudinal section on about line 7 7 of Fig. 2.

In carrying out my invention I provide a handle A, which in general respects may be of the form and construction ordinarily employed with hammers or hatchets, and I have shown such handle in connection with a hatchet whose head B is constructed to receive the securing device for one end of the saw-blade as presently described. In its rear edge the handle A is grooved longitudinally at A′ from a point A^2 within the eye of the head B to the opposite or free end of the handle, the groove A′ being made wider at A^3 for a considerable distance from the free or butt end of the handle, forming a recess the opposite walls of which are lined by the casing-plates C, which extend to the free end of the handle and afford at C′ a pivot for one end of the swinging carrier D, the lining-plates C being provided at their lower ends with a downwardly-projecting block C^2, which fits in a recess formed in the free end of the handle A and operates as a stop to limit the forward movement of the carrier D when the latter is adjusted to the position shown in Fig. 1. I also extend the recess A^3 at the free end or butt of the handle A to the front edge of the latter in order to receive the swinging carrier D when the latter is swung from its folded position indicated in Fig. 1 to the full-line position shown in the said figure.

The saw-blade E is pivotally and slidably secured at one end in connection with the swinging carrier D and may be adjusted therewith to and from the positions indicated by dotted lines and shown in full lines in Fig. 1. When folded, as indicated in dotted lines in Fig. 1, the saw-blade projects at one end into the eye of the hatchet or hammer-head D and the back of the saw-blade, and the carrier D will rest within the groove of the handle A and be incased and protected and will not in any way interfere with the use of the hammer or hatchet for the purposes for which such devices are ordinarily employed.

As shown, the swinging carrier D is bifurcated from its free end, forming the opposite side sections D′, between which the saw-blade E may adjust back and forth, and the side plates D′ of the carrier are slotted longitudinally at D^2, and studs E′ extend laterally from the rear end of the saw-blade into the slots D^2 and secure the blade to the carrier and yet permit the adjustment of the blade lengthwise along the carrier by the movement of the studs E′ in the slots D^2, as will be understood from Figs. 1 and 5 of the drawings. Near the swinging end of the carrier the walls of the slot D^2 are notched at D^3 to receive the studs E′ and lock the saw in the position shown in Fig. 1 when the opposite end of the saw is connected with the securing device, which I will now describe. Such opposite end of the saw-blade is perforated at E^2 to engage the stud F′ on the arm F^2 of the securing device F for the butt-end of the saw-blade. This securing device F has a split shank F^3, whose sections F^4 are spread apart slightly to bind by a springing action at their free ends in the opening B′, formed through the head B, and to normally adjust the securing device to the position shown in Figs. 1 and 3, in which the saw-blade is held in position for use. The shank F^3, it will be noticed, projects at F^5 beyond the head B and may be tapped upon by hammer or other tool to force the securing device inwardly, so the arm F will escape from the slot B^2. It may then be turned laterally from the position shown in Fig. 3 when it is desired to release the saw-blade and permit its readjustment from the full-line position shown in Fig. 1 to the dotted-line position indicated in the same figure. The slot

B^2 receives the arm F of the securing device and holds the same in position to secure the saw-blade in desired alinement for use.

In use the head of the hammer or hatchet may be utilized for the handle of the saw, and from the set of the saw-teeth, as shown in Fig. 1, it will be noticed the cutting movement of the blade will exert a backward tension on the securing device F and will not tend to release the same from its spring-grip within the opening B′ of the head D.

It will be noticed from the foregoing description that I utilize the head of the hatchet as a support for the device for securing the butt-end of the saw-blade and the butt-end of the handle as a support for the swinging carrier for the other end of the saw-blade and also construct the handle of the saw to form a receptacle for the saw-blade and the swinging carrier when the saw is adjusted out of position for use.

The saw can be utilized for cutting meat, wood, or for other purposes, as may be desired.

Having thus described my invention, what I claim, and desire to secure by Letters Patent, is—

1. The combination substantially as herein described, of the head having an eye and provided with an opening formed through the head and with a slot leading from the inner end of said opening, the securing device having a split shank held in the opening in the head and an arm movable into and out of the slot at the inner end of said opening, said arm being provided with a lateral stud to secure one end of the saw-blade, the handle provided in its rear side with a longitudinal groove extending from a point within the eye of the head to the butt-end of the handle and widened or recessed for a distance from such butt-end and having in said end a transverse groove extending from front to rear for the swinging carrier, the casing-plates fitting in the widened portion or recess of the handle-groove and having a block forming a stop for the swinging carrier, the swinging carrier pivoted at one end between said casing-plates and bifurcated from its opposite or swinging ends forming the side plates and having said side plates provided with longitudinal slots and with notches in the walls of such slots near the swinging ends of the carrier, and the saw-blade provided at one end with an opening fitted to receive the lateral stud on the arm of the securing device and having its opposite end fitting between the opposite plates of the swinging carrier and provided with lateral studs entering the slots of the side plates of said carrier and adapted to engage in the notches in the walls of said slots, all substantially as described whereby the saw-blade and the swinging carrier may be adjusted to position for use and the blade be connected with the securing device carried by the head, or said carrier and blade may be incased in the handle with one end of the blade projecting into the eye of the head, substantially as and for the purposes set forth.

2. The combination of the handle, the head thereon, the swinging carrier pivoted at one end to the butt-end of the handle, the blade pivotally and slidably connected at one end with the swinging carrier, and means for detachably securing the other end of the blade to the head when the parts are adjusted for use as a saw substantially as set forth.

3. The combination of the head, the handle grooved longitudinally, the swinging carrier pivoted at one end to the handle, mounted to be turned down into the handle-groove or to project at a right angle to the handle and from the side thereof opposite its grooved side, the saw-blade connected at one end with the swinging carrier, and means for detachably securing the other end of the saw-blade in connection with the head, substantially as set forth.

4. The combination with the handle, the head thereon, the handle being grooved longitudinally to a point within its head, the saw-blade capable of being moved into and out of said groove, and projecting, when in said groove, at one end into the eye in the head, whereby said head is retained without separate fastenings, means in connection with the handle for securing one end of said blade when adjusted for use as a saw and means in connection with the head for detachably securing the other end of the blade when so adjusted, substantially as set forth.

5. The combination with the handle grooved longitudinally and the head on the handle, of a swinging carrier pivoted at one end to the handle, the saw-blade pivotally and slidably connected with the swinging carrier and capable of being moved with the saw to one side of the handle for incasement within the groove and to the other side of the handle in adjusting the blade into position for use as a saw and means on the head for securing the saw-blade when so adjusted substantially as set forth.

6. The combination of the handle, the saw-blade, the head having a transverse opening and a slot leading from the inner end of said opening, the securing device having a shank turning and movable longitudinally in the opening in the head and an arm adapted to engage in the slot and protrude beyond the head when adjusted to position to support the saw, means for securing said arm in detachable connection with one end of the saw-blade, and means connected with the handle for securing the other end of the saw-blade, substantially as set forth.

JOSEPH BAUMGARTNER.

Witnesses:
G. A. Bock,
D. V. Vaughan.