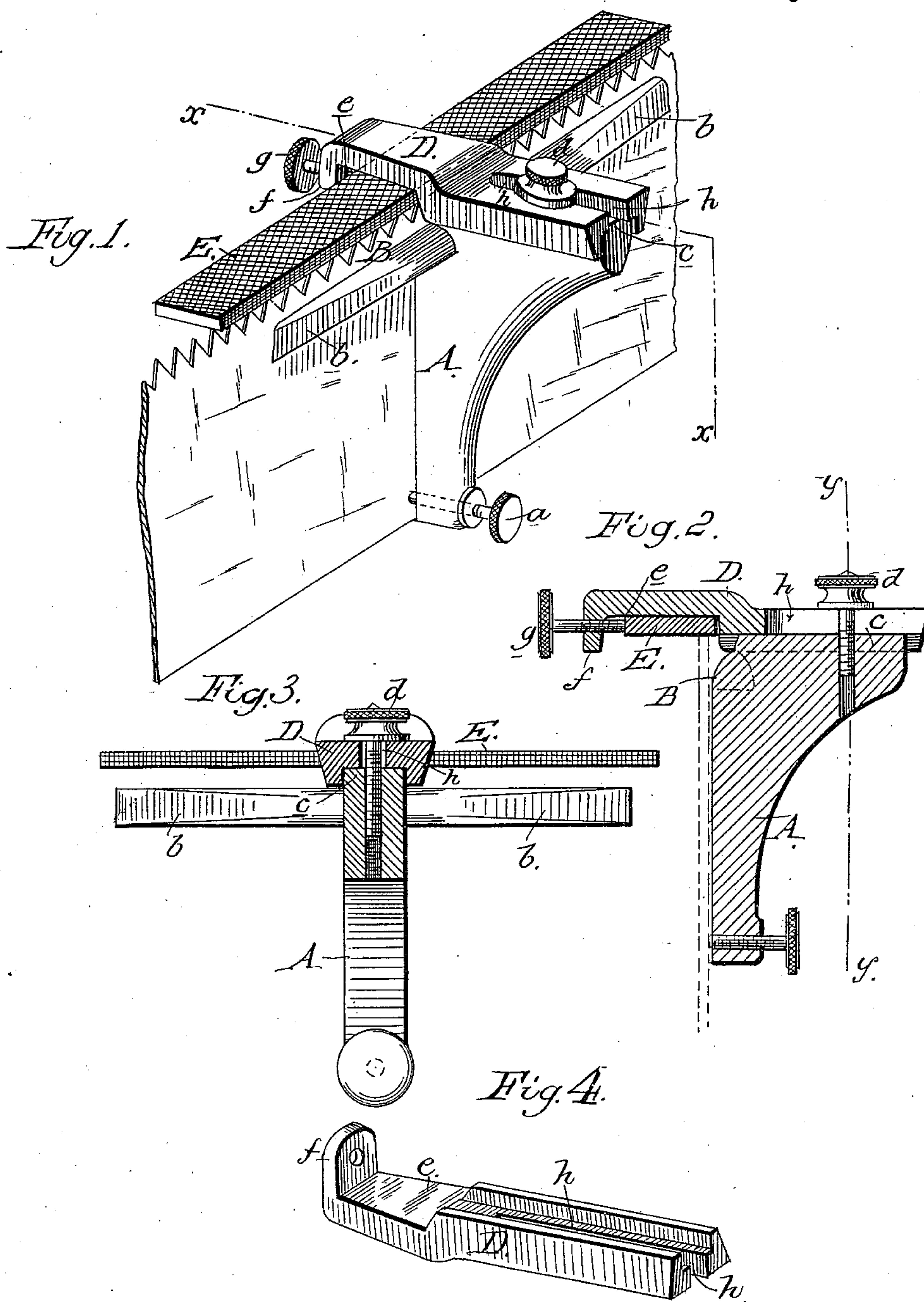


(No Model.)

A. R. LANDERS.
SAW JOINTER.

No. 563,286.

Patented July 7, 1896.



WITNESSES
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ANSEL R. LANDERS, OF WEST FALMOUTH, MASSACHUSETTS.

SAW-JOINTER.

SPECIFICATION forming part of Letters Patent No. 563,286, dated July 7, 1896.

Application filed April 8, 1896. Serial No. 586,673. (No model.)

To all whom it may concern:

Be it known that I, ANSEL R. LANDERS, a citizen of the United States, residing at West Falmouth, in the county of Barnstable and State of Massachusetts, have invented certain new and useful Improvements in Saw-Jointers, of which the following is a specification, reference being had therein to the accompanying drawings.

10 My invention relates to that class of tools, commonly known as "saw-jointers," which carry a file that is adapted to operate upon the saw-teeth to reduce them to uniform height and place their cutting points in a straight
15 line; and my invention consists of the parts and the construction and combination of parts, which I shall hereinafter fully describe and claim.

20 In the accompanying drawings, forming part of this invention, Figure 1 is a perspective view of a saw-jointer constructed according to my invention. Fig. 2 is a vertical sectional view on the line *xx* of Fig. 1. Fig. 3 is a cross-sectional view on the line *yy* of Fig. 2. Fig. 4
25 is a perspective view showing the under side of the movable head.

The saw-jointer illustrated in the figures of the drawings is one of great simplicity, as it comprises but two essential parts, to-wit,
30 a bracket or casting and a head adjustably fitted thereto and carrying a file. The bracket or casting A has a straight front edge which lies next to the saw-blade and is provided at its lower end with a set-screw *a*, whereby said
35 bracket may be adjusted toward and from the saw-blade at right angles to its width. At the upper end of the front edge of the bracket is a guide B, formed by two oppositely-extending arms *b*, integral with the bracket and hav-
40 ing their front edges parallel and flush with the front edge of the bracket, the said arms forming a guide or straight-edge for the upper toothed edge of the saw-blade. At the upper end the bracket is widened or extended
45 rearwardly, and is formed with a head *c*, and has a threaded hole for the reception of a thumb-screw *d*, the purpose of which will be hereinafter described.

50 Upon the upper end of the bracket or casting A is mounted a head D, made as an inte-

gral casting of substantially the form shown. This head lies at right angles to the bracket A. Its forward portion has a recess *e* to receive the file E, while a projecting lip or lug *f* receives a thumb-screw *g*, which is designed
55 to engage said file and securely clamp it within the recessed portion of the head. Back of this recess *e* the under side of the head D is grooved to receive the head *c* or upper end of the bracket, the grooved portion
60 opening through the rear end of the movable head and also opening through the front or portion adjacent to the file, whereby the movable head D is adapted to slide back and forth on the bracket or casting A, the extent
65 of its movement being determined by the slot *h*, formed in the rear end of the movable head, and said head being securely held in any adjusted position by means of the thumb-screw
70 *d*, passing through the slot and engaging the threaded opening in the rear portion of the bracket.

In operating my device the straight front edge of the bracket is fitted against the flat side of the saw-blade and the under side of
75 the file rests on the points of the saw-teeth. Then by moving the device back and forth, from the heel to the point of the blade, all of the teeth are reduced to uniform length, with their points on a straight line. When first
80 adjusting the device, the movable head is preferably adjusted on the bracket so that the inner edge of the file just overhangs or covers the saw-teeth, and after this portion of the file has become dull the thumb-screw
85 *d* should be loosened and the head moved backwardly upon the head of the bracket until a new and unused portion of the file is brought into operative position. In this man-
90 ner all portions of the file may be successively used, and the objection of the file being worn along a single line and then being unfit for further service with less than one-half of its available surface used, which is so common
95 in this class of tools, is entirely obviated. One file, with my device, will answer the purpose of a number of files used in many saw-jointers now constructed, thereby insuring a great
100 saving in this direction. My main bracket A is also exceedingly convenient in its ad-

justment and operation, and by its use I obtain most desirable results.

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

1. A saw-jointer consisting of a bracket having oppositely-extending arms, forming a guide for the upper edge of the saw-blade, a head slidably mounted on top of the bracket and adapted to overhang the saw-teeth, and provided with a file, said head having a slot and a set-screw passing through the slot and adjustably securing the head whereby successive portions of the file may be brought into use.

2. A saw-jointer consisting of a bracket having a straight front edge next to the saw-blade, a head slidably mounted on said bracket in planes at right angles to said front and having a recessed forward portion, a file and means for holding it within the recessed forward portion of the head, and means whereby

the head is adjustably held to the bracket to bring successive portions of the file into use.

3. A saw-jointer consisting of a bracket having a front edge with oppositely-extending arms at the upper portion, forming a guide for the upper edge of the saw-blade, and an adjusting-screw at the lower portion of said front; a head arranged at right angles to the bracket, having a recessed portion for the file, and having its under surface grooved to receive the top portion of the bracket, means for clamping a file in the recessed portion of the head, and means comprising a thumb-screw engaging a slot in the head whereby the head is adjustably secured on the bracket to bring successive portions of the file into use.

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

ANSEL R. LANDERS.

Witnesses:

LEWIS W. SMITH,
H. C. DAVIS.