

No. 853,282.

PATENTED MAY 14, 1907.

T. L. WALLACE.

SAW.

APPLICATION FILED MAY 23, 1906.

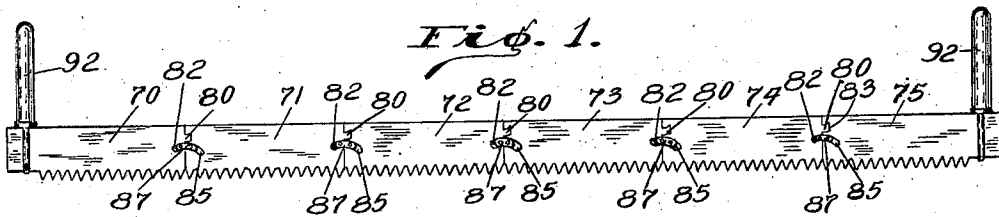


Fig. 2.

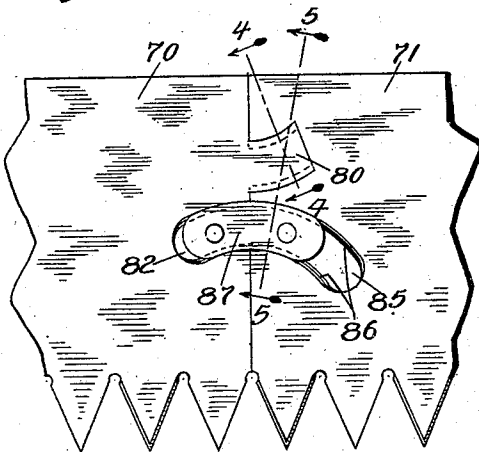


Fig. 4.

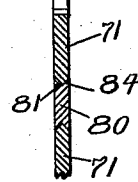


Fig. 5.

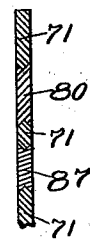
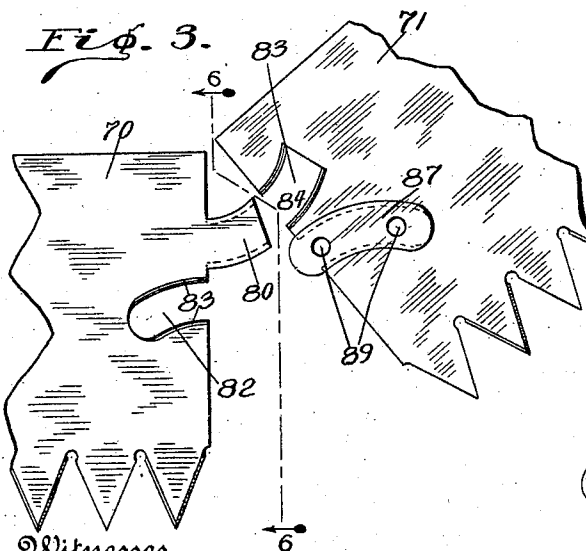


Fig. 3.



Witnesses

Verion Plummer.

Thomas W. McMeans.

Fig. 6.

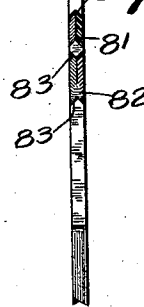
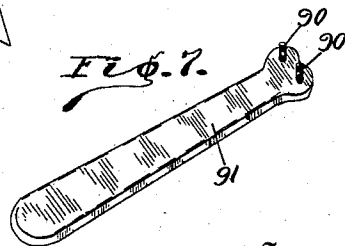


Fig. 7.



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UNITED STATES PATENT OFFICE.

THOMAS L. WALLACE, OF INDIANAPOLIS, INDIANA, ASSIGNOR TO E. C. ATKINS & COMPANY, OF INDIANAPOLIS, INDIANA, A CORPORATION OF INDIANA.

SAW.

No. 853,282.

Specification of Letters Patent.

Patented May 14, 1907.

Application filed May 23, 1906. Serial No. 318,284.

To all whom it may concern:

Be it known that I, THOMAS L. WALLACE, a citizen of the United States, residing at Indianapolis, in the county of Marion and State of Indiana, have invented certain new and useful Improvements in Saws, of which the following is a specification.

The object of my invention is to produce a long saw (as distinguished from circular saws), which consists of a plurality of comparatively short sections provided with means by which they may be secured together end to end, the particular object of my said invention being to produce a simpler form of the saw which forms the subject-matter of my pending application, Serial No. 266,832.

The accompanying drawings illustrate my invention:

Figure 1 is a side elevation of such a saw; Fig. 2 a fragmentary side elevation on an enlarged scale of the adjacent ends of two sections united; Fig. 3 a similar view showing the parts separated; Fig. 4 a transverse section on line 4—4 of Fig. 2; Fig. 5 a section on line 5—5 of Fig. 2; Fig. 6 an end elevation on line 6—6 of Fig. 3, and Fig. 7 a perspective view of a desirable form of tool for associating the sections.

In the drawings, 70, 71, 72, 73, 74 and 75 indicate a series of saw sections which are to be associated end to end to form the complete saw. Sections 70 and 75 are the end sections while sections 71, 72, 73 and 74 are exactly alike and form the intermediate sections. Each of the intermediate sections is provided at one end with a projecting curved finger 80 which is provided in its top and bottom edges with V-shaped grooves 81. Adjacent the finger 80, and curving in the opposite direction, is an open-ended slot 82 which is provided with V-shaped edges 83. The other end of each of the intermediate sections is provided with a curved open-ended slot 83 having V-shaped edges 84 to receive the finger 80 of an adjacent section. Adjacent the slot 83 is an open-ended slot 85 of an adjacent saw section and forming a continuation of the curvature thereof. Slidably mounted in each slot 85 is a curved key 87 which has V-shaped grooves in its curved edges so as to receive the V-shaped edges of the slot 85. Each key 87 is provided with a pair of perforations 89 to receive pins 90 of a

wrench 91. The end section 70 at its inner end is provided with a finger 80 and a slot 82 while the inner end of the section 75 is provided with slots 83 and 85 and a curved key 87 in the slot 85. The outer ends of the segments 70 and 75 are formed to receive handles 92.

In order to assemble the sections the parts are first brought to the positions shown in Fig. 3, the key 87 being withdrawn into slot 85 until only its rounded end projects. Finger 80 is then inserted into slot 83 until the adjacent ends of the two sections are brought together. The pins 90 of the wrench 91 are then inserted in the holes 89 of the key 87 and the said key projected from slot 85 into slot 82 until about half of its length is in the slot 82, thus tying the sections firmly together.

The interengagement of the V-shaped edges of the finger 80 and groove 83, and the key 87 with slots 82 and 85 hold the sections against displacement transversely of the plane of the saw and the opposite curves of the finger 80 and the key 87 prevent longitudinal and transverse displacement in the plane of the saw.

I claim as my invention:

1. As an article of manufacture, a saw composed of a plurality of sections to be connected successively end to end, said sections having at adjacent ends interengaging portions, and an independent member carried by one of said sections and projectable endwise into the main body of the adjacent section.

2. As a new article of manufacture, a saw composed of a plurality of sections adapted to be connected successively end to end, said sections having at their adjacent ends a finger curved transversely of the saw carried by one member and a slot carried by the other member and adapted to receive said finger, and a pair of independent registering slots extending into the bodies of the sections and arranged at an angle to said finger, and a key mounted in one of said slots and adapted to be partially projected into the other of said slots.

3. As a new article of manufacture, a saw composed of a plurality of sections adapted to be connected successively end to end, said sections having at their adjacent ends a finger carried by one member and a slot formed

in the other member and adapted to receive said finger, each of said slots also having registering slots extending into the main bodies of the sections and arranged at an angle to the aforesaid meshing finger and slot, and a key mounted in one of said slots and adapted to be partially projected endwise into the other of said slots.

4. As an article of manufacture, a saw composed of a plurality of sections adapted to be connected successively end to end, said sections having at their adjacent ends a finger curved transversely of the saw carried by one member and a slot carried by the other member and adapted to receive said finger, and a pair of independent registering slots curved opposite to the curvature of said finger and extending into the adjacent edges of said sections, and a key mounted in one of said slots and adapted to be partially projected into the other of said slots.

5. As an article of manufacture, a saw composed of a plurality of sections to be connected successively end to end, said sections having at adjacent ends interengaging portions, one of said sections having an independent open-ended slot and a key slidable therein and having interengagement therewith to prevent displacement transversely of the saw plane, while the mating section has an independent open ended slot adapted to receive the projected end of the slidable key.

6. As an article of manufacture, a saw composed of a plurality of sections to be connected successively end to end, one of said sections having a projecting curved finger

while the mating section has a registering open-ended slot, the edges of the finger and slot interengaging by means preventing displacement transversely of the saw-plane, and the two sections having independent registering open ended slots extending into the bodies of the sections and curved oppositely to the curvature of the projecting finger with a key slidably mounted in one of said slots for projection into the other and interengaging therewith by means preventing displacement transversely of the saw-plane.

7. As an article of manufacture, a saw composed of a plurality of sections to be connected successively end to end, one of said sections having a projecting finger while the mating section has a registering open-ended slot, the edges of the finger and slot interengaging by means preventing displacement transversely of the saw-plane, and the two sections having independent registering open ended slots extending into the bodies of the sections and arranged at an angle to said finger with a key slidably mounted in one of said slots for projection into the other and interengaging therewith by means preventing displacement transversely of the saw-plane.

In witness whereof, I, have hereunto set my hand and seal at Indianapolis, Indiana, this 10th day of May, A. D. one thousand nine hundred and six.

THOMAS L. WALLACE. [L. S.]

Witnesses:

THOMAS W. McMEANS,
ARTHUR M. HOOD.