

No. 610,733.

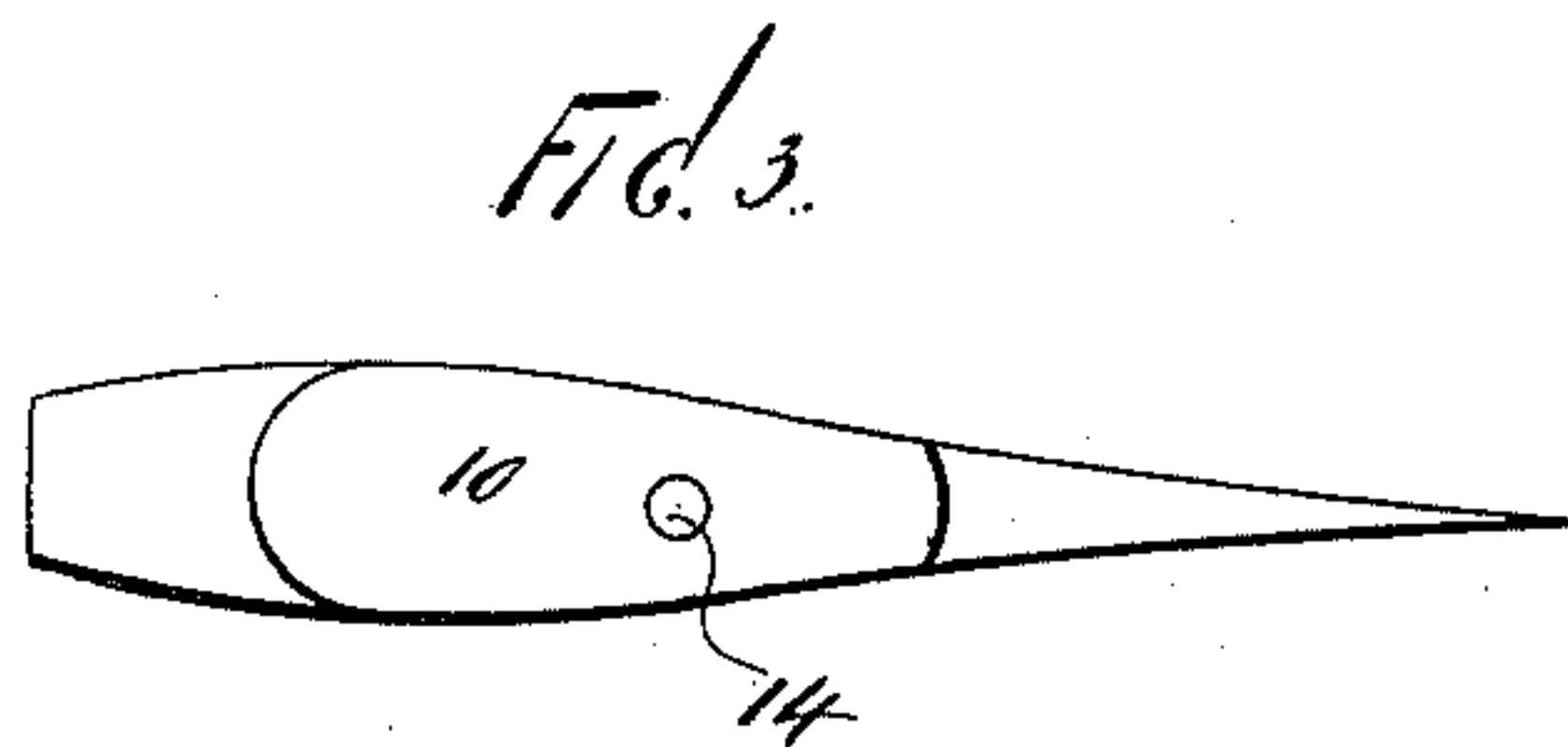
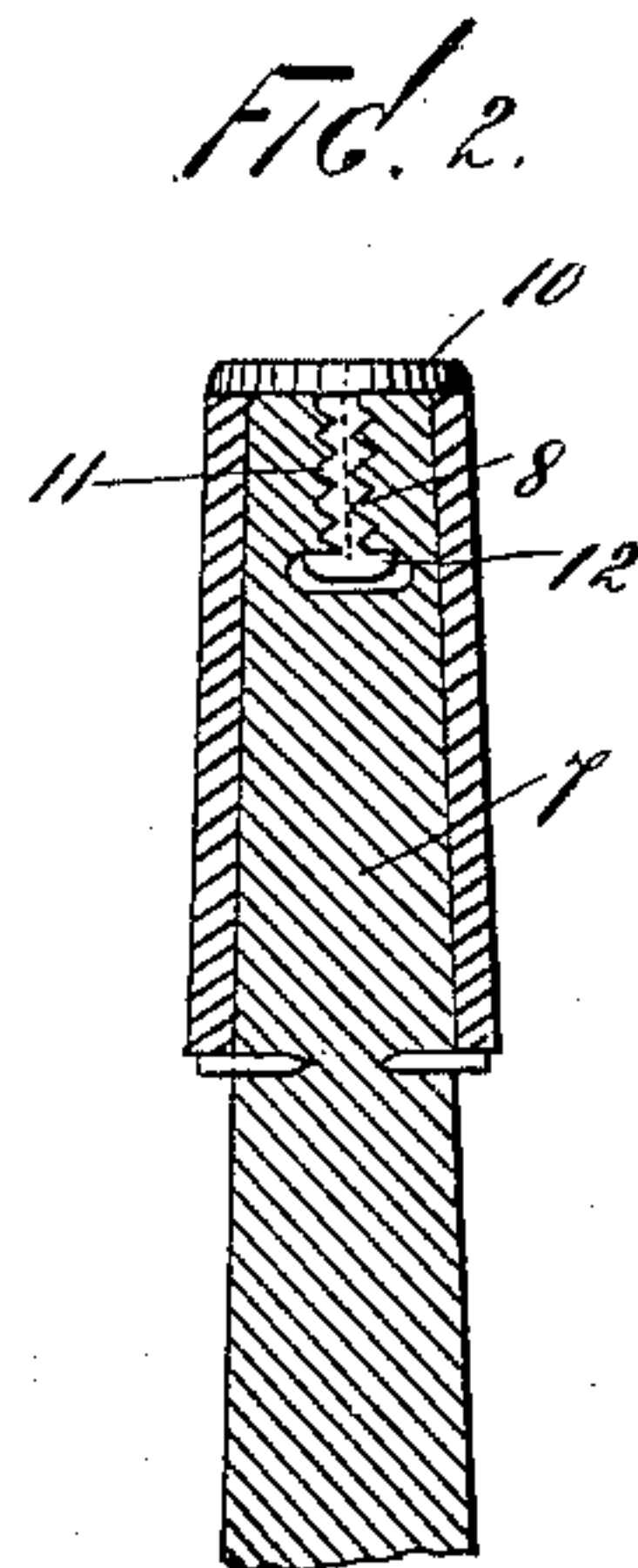
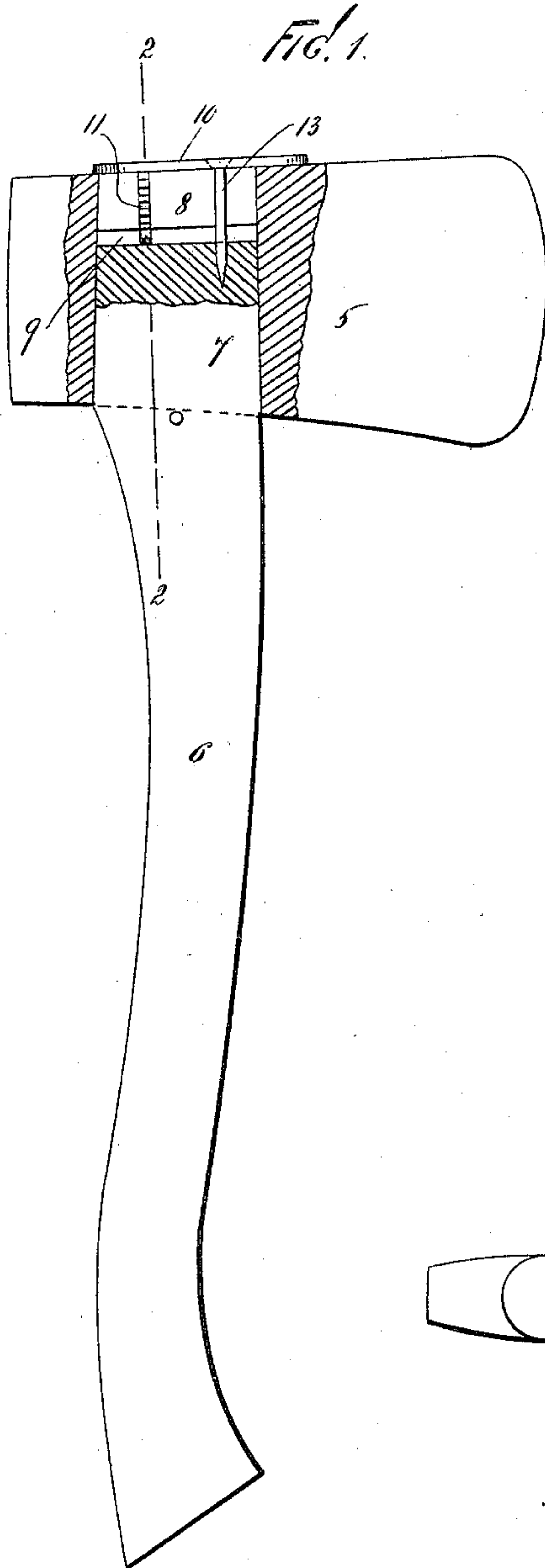
Patented Sept. 13, 1898.

A. BIGGS, JR.

MEANS FOR SECURING TOOLS ON HANDLES.

(Application filed May 6, 1898.)

(No Model.)



WITNESSES
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UNITED STATES PATENT OFFICE.

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MEANS FOR SECURING TOOLS ON HANDLES.

SPECIFICATION forming part of Letters Patent No. 610,733, dated September 13, 1898.

Application filed May 6, 1898. Serial No. 679,950. (No model.)

To all whom it may concern:

Be it known that I, ALDEN BIGGS, Jr., a citizen of the United States, residing at Westhampton, in the county of Suffolk and State of New York, have invented certain new and useful Improvements in Means for Securing Tools on Handles, of which the following is a full and complete specification, such as will enable those skilled in the art to which it appertains to make and use the same.

This invention relates to keys or locks for securing hatchets, axes, and similar tools on a handle; and the object thereof is to provide an improved device of this class which is simple in construction and operation and well adapted to accomplish the result for which it is intended.

The invention is fully disclosed in the following specification, of which the accompanying drawings form a part, in which—

Figure 1 is a sectional side view of an ax secured to a handle by means of my improvement; Fig. 2, a section thereof on the line 2 2, and Fig. 3 an end view at right angles to Fig. 1.

In the drawings forming part of this specification the separate parts of my improvement are designated by the same numerals of reference in each of the views, and in said drawings I have shown at 5 an ordinary ax provided with a handle 6; but it will be apparent that my improvement may be applied to a hatchet, hammer, or other similar tool. The part 7 of the handle, which passes through the ax, is split longitudinally of its greatest diameter, as shown at 8, or provided with a groove which extends inwardly about one-third of the length of the part 7 of the handle, and this split or groove communicates with an interior groove or passage 9, which is greater in cross-section than the split or groove 8.

I also provide an oblong key-plate 10, which is of the form shown in Figs. 1 and 3 and which is slightly wider at one end than at the other and which is provided adjacent to one end, preferably the wider end, with an inwardly-directed key-wedge 11, the sides of which are serrated or provided with teeth or projections, as shown in Fig. 2, and the inner end of which is provided with a cross-head 12, which is adapted to turn trans-

versely in the groove or passage 9. The plate 10 is as wide as that part of the ax 5 through which the handle passes is thick, and the operation will be readily understood from the foregoing description when taken in connection with the accompanying drawings and the following statement thereof.

The ax being placed in position on the handle, the key-wedge 11 is forced through the split or groove 8 until the head 9 thereof enters the groove or passage 12, and in this operation the plate 10 is held transversely of the handle. The plate 10 is then swung into the position shown in Figs. 1 and 3, and this turns the key-wedge 11, which is much wider than it is thick, transversely of the split or groove 11 and the head 9 thereof transversely of the groove or passage 12, which operation securely locks the key-plate 10 to the handle and holds the ax in place thereon, and I also provide a pin or nail 13, which is driven through a hole 14 in the key-plate 10 and into the end of the handle, as shown in Fig. 1, and this pin or nail prevents the key-plate from swinging or being swung out of the position shown in Figs. 1 and 3.

My improvement is simple in construction and operation and is perfectly adapted to accomplish the result for which it is intended and is also comparatively inexpensive.

The split or groove 8 need not extend entirely through the longer diameter of the handle, and other changes in and modifications of the construction described may be made without departing from the spirit of my invention or sacrificing its advantages.

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

1. An ax, hatchet or similar tool provided with a handle one end of which passes there-through in the usual manner, the end of the handle which passes through the tool being provided with a split or groove which communicates with an interior passage or groove, and a key-plate provided with a key-wedge which is adapted to be inserted into and through said first-named split or groove and which is provided at its inner end with a head which is adapted to turn in the interior passage or groove, substantially as shown and described.

2. An ax, hatchet or similar tool provided with a handle one end of which passes there-through in the usual manner, the end of the handle which passes through the tool being
5 provided with a split or groove which communicates with an interior passage or groove, and a key-plate provided with a key-wedge which is adapted to be inserted into and through said first-named split or groove and
10 which is provided at its inner end with a head which is adapted to turn in the interior passage or groove, and said key-wedge being provided on its opposite sides with serrations or teeth, substantially as shown and de-
15 scribed.

3. An ax, hatchet or similar tool provided with a handle one end of which passes there-through in the usual manner, the end of the handle which passes through the tool being
20 provided with a split or groove which com-

municates with an interior passage or groove, and a key-plate provided with a key-wedge which is adapted to be inserted into and through said first-named split or groove and which is provided at its inner end with a
25 head which is adapted to turn in the interior passage or groove, and said key-wedge being provided on its opposite sides with serrations or teeth, and said key-plate being also provided with a perforation or holder through
30 which a nail is driven into the end of the handle, substantially as shown and described.

In testimony that I claim the foregoing as my invention I have signed my name, in presence of the subscribing witnesses, this 3d day
35 of May, 1898.

ALDEN BIGGS, JR.

Witnesses:

FRANK GORDON,
FRED. R. JAGGER.