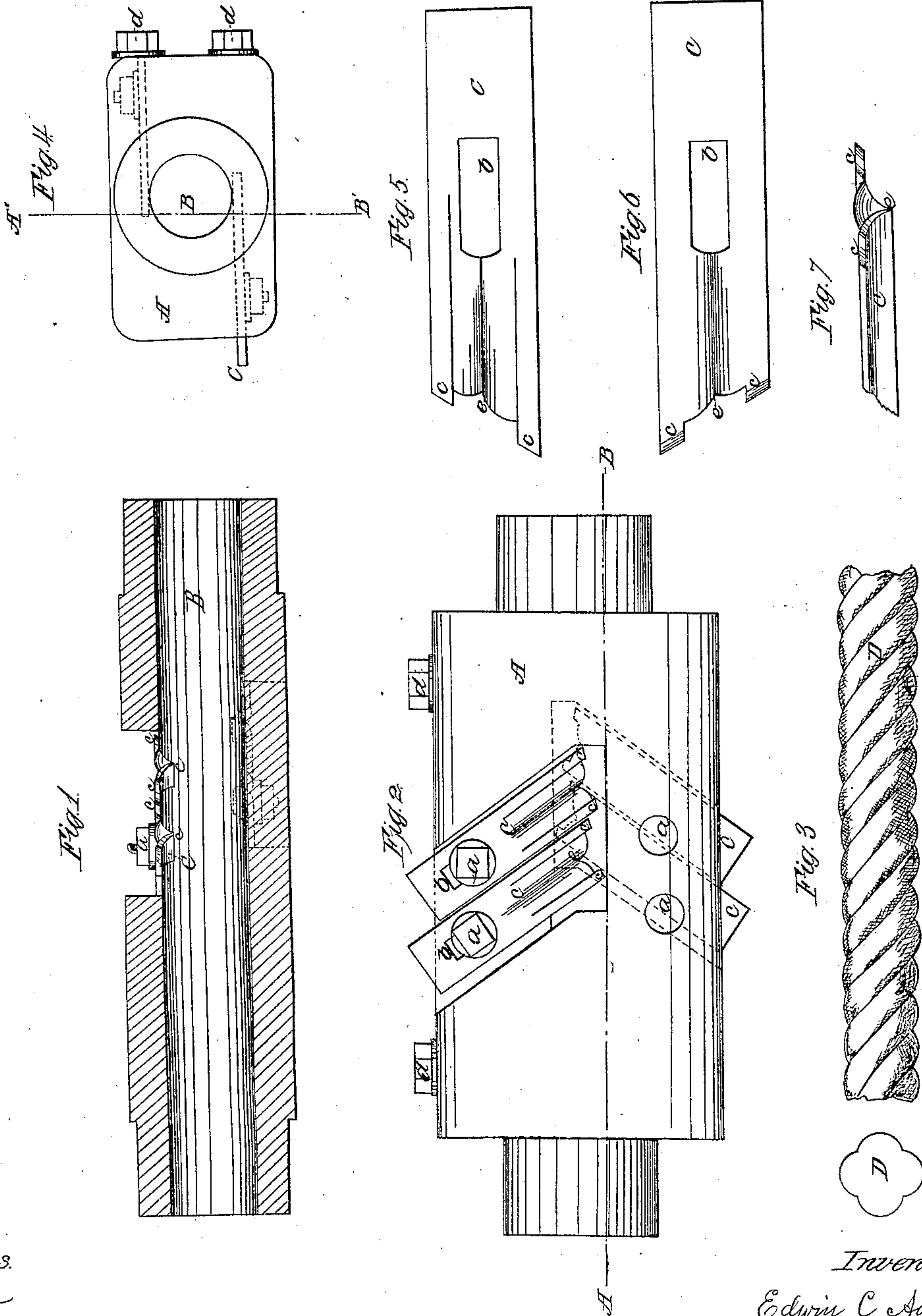


E. C. Austin,

Making Rope Molding,

Patented Jan. 22, 1867.

No 61,306.



Witnesses.
E. A. West,
E. B. Sherman

Inventor.
Edwin C Austin
By Bond his ally

United States Patent Office.

EDWIN C. AUSTIN, OF MONROE VILLAGE, WISCONSIN.

Letters Patent No. 61,306, dated January 22, 1867.

IMPROVEMENT IN TOOL FOR CUTTING MOULDINGS.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, EDWIN C. AUSTIN, of the village of Monroe, in the county of Green, and State of Wisconsin, have invented a new and useful Tool for Cutting Rope or Screw Mouldings; and I hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings making a part of this specification, in which—

Figure 1 is a longitudinal section.

Figure 2, a top view.

Figure 3, a piece of moulding.

Figure 4, a cross-section.

Figure 5, a top view of one of the knives.

Figure 6, a reverse view of one of the knives.

Figure 7, a perspective view of one of the knives.

The nature and object of my invention consists in constructing a tool for the manufacture of what is called rope or screw moulding, so that the moulding will be completed by once passing through the tool, and in constructing the knives or cutters with projecting points and a receding edge, so that a smooth cut against the grain of the wood can be obtained, and brought to or near to the edge without splitting or marring the wood.

To enable others skilled in the art to make and use my invention, I proceed to describe its construction and operation.

The body or shaft A is made of wood or iron, as may be preferred, and can be made whole or in halves, and bolted together by the bolts *d*. It is about eight inches long, and is provided with journals at the ends, or a journal and belt or gear-wheel, as may be desired; or it may be constructed so as to be used by hand. Through this shaft a hole or circular cavity, B, is made longitudinally, of the size desired for the moulding. On each side of the shaft A I attach knives or cutters, C, of which there are three or more, according to the desired style of moulding; four will be found most convenient, and less than three cannot well be used. The knives or cutters are set at an angle of about forty-five degrees with the hole B, (a greater or less angle may be used if desired,) and are adjustable by the slots *b* and bolts *a*. These knives are made V-shaped at the cutting end, and are so constructed that the cutting edge will regularly recede from the points *c* to the point *e*. The effect of this in use is, that, as the tool or the stick rotates, the cutting will be downwards, the upper portion of the wood being cut first, and thus a smooth cut is made, and the wood is prevented from checking or splitting. The points *c* are made to project slightly over each side of the cutting edge, and are bevelled off on the under side. The object of this is also to prevent checking or splitting, particularly when cutting between the cords partly cut by the front knives. The knives are so constructed and attached that there is a pressure on the wood just forward and at the commencement of the cutting. By the use of these knives I am enabled to cut a smooth rope or screw moulding, neatly finished as it comes from the machine. The sticks D before being passed through the tool are reduced to proper size by a chuck, placed immediately in front of the tool or in a separate machine; and the moulding may be used whole as it comes from the machine, or may be split and used in halves. It will be found best to place the knives on both sides of the shaft A, as shown. The knives must be adapted in size to the moulding desired, and must be placed so that those on one side of the shaft are somewhat in advance of those on the opposite side, as shown.

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

1. The knives C, constructed with the projections or bearings *c*, pressing upon the surface of the wood in advance of the cutting edge, substantially as and for the purposes specified.

2. The tool herein described for cutting rope or screw moulding, constructed and operating substantially as described.

EDWIN C. AUSTIN.

Witnesses:

H. G. AUSTIN,

S. B. BOYNTON.