

2 Sheets-Sheet 1.

H. Baker,

Dressing Staves.

N<sup>o</sup> 4,877.

Patented Dec. 9, 1846.

Fig 2

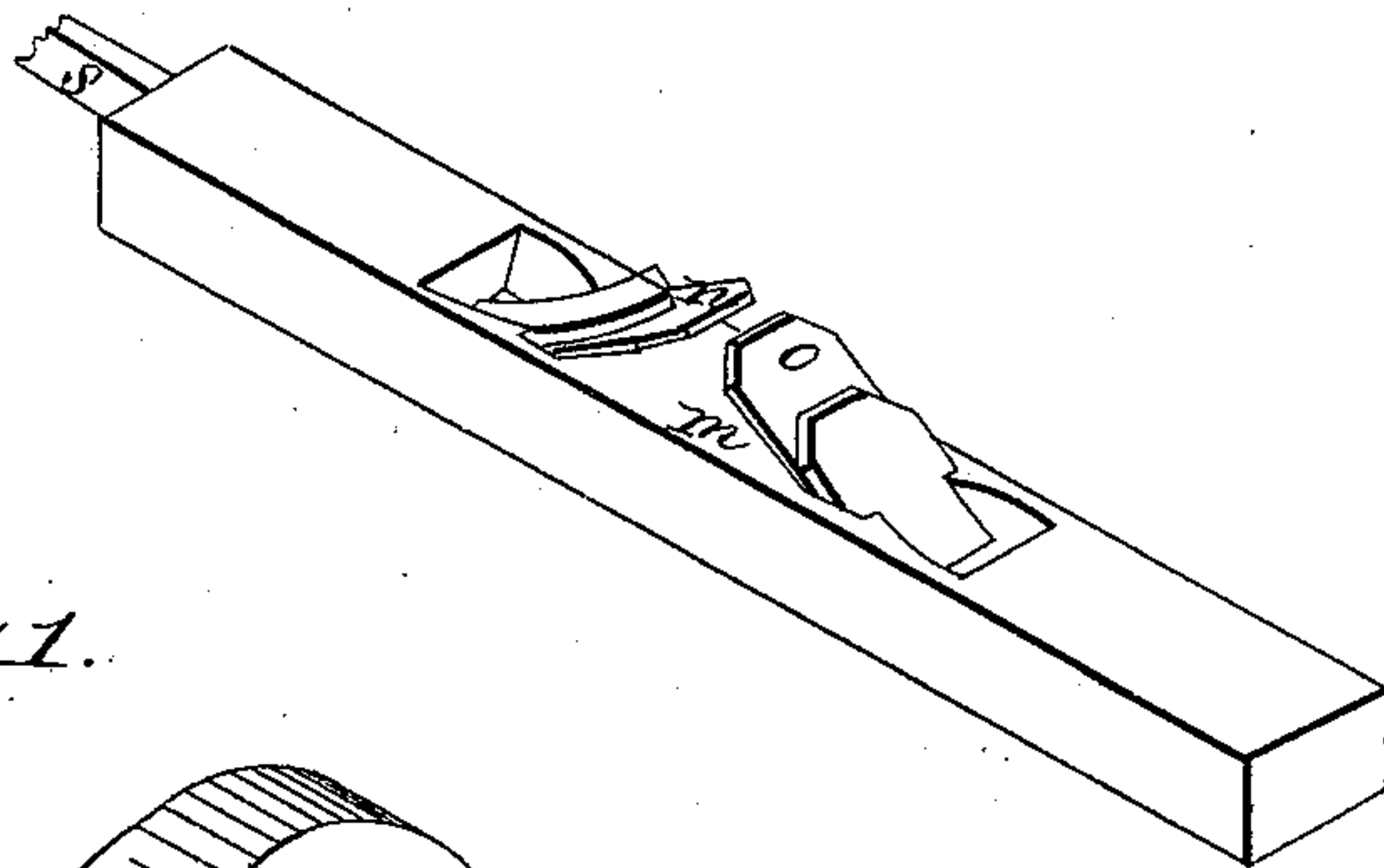
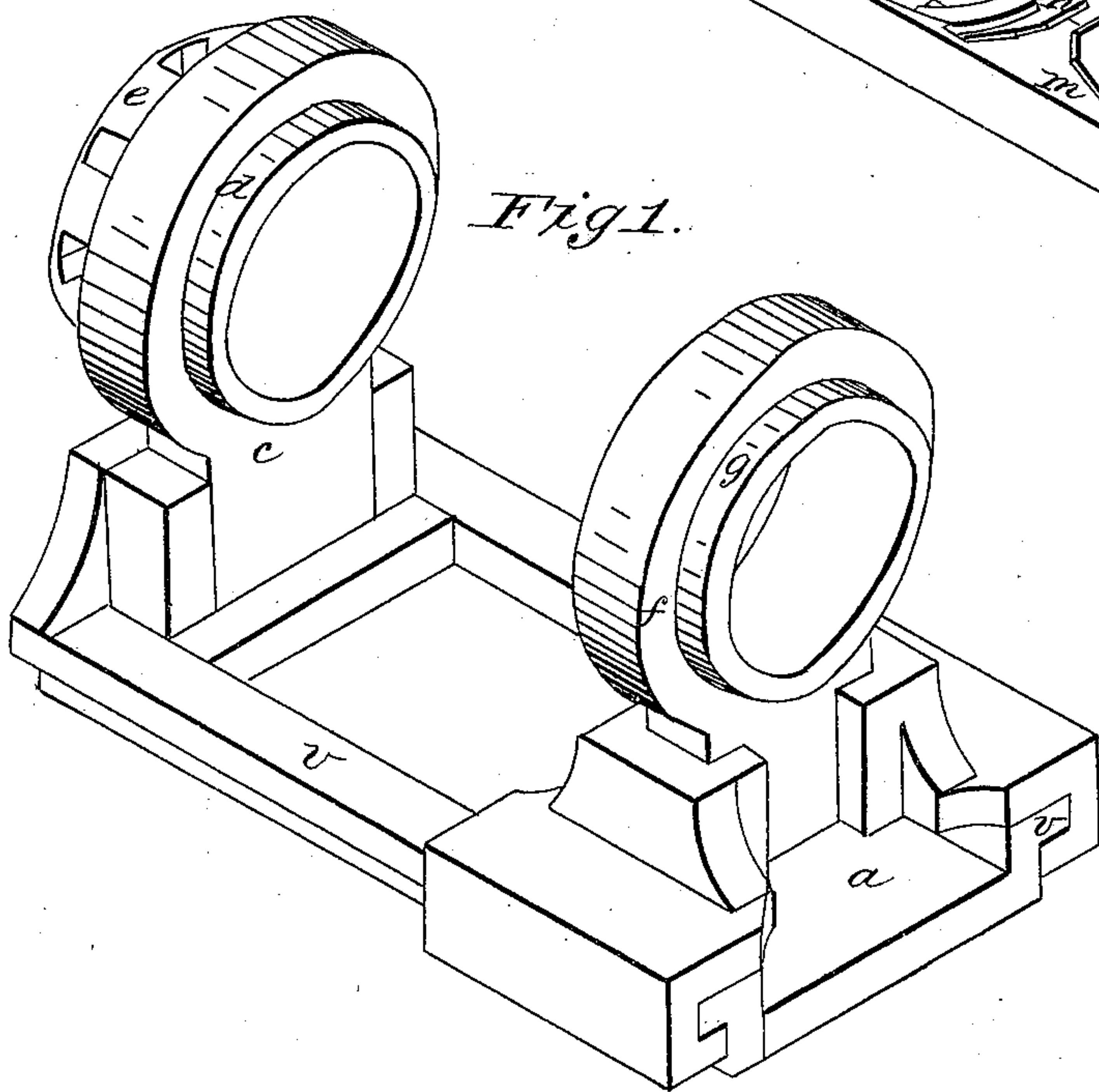


Fig 1.



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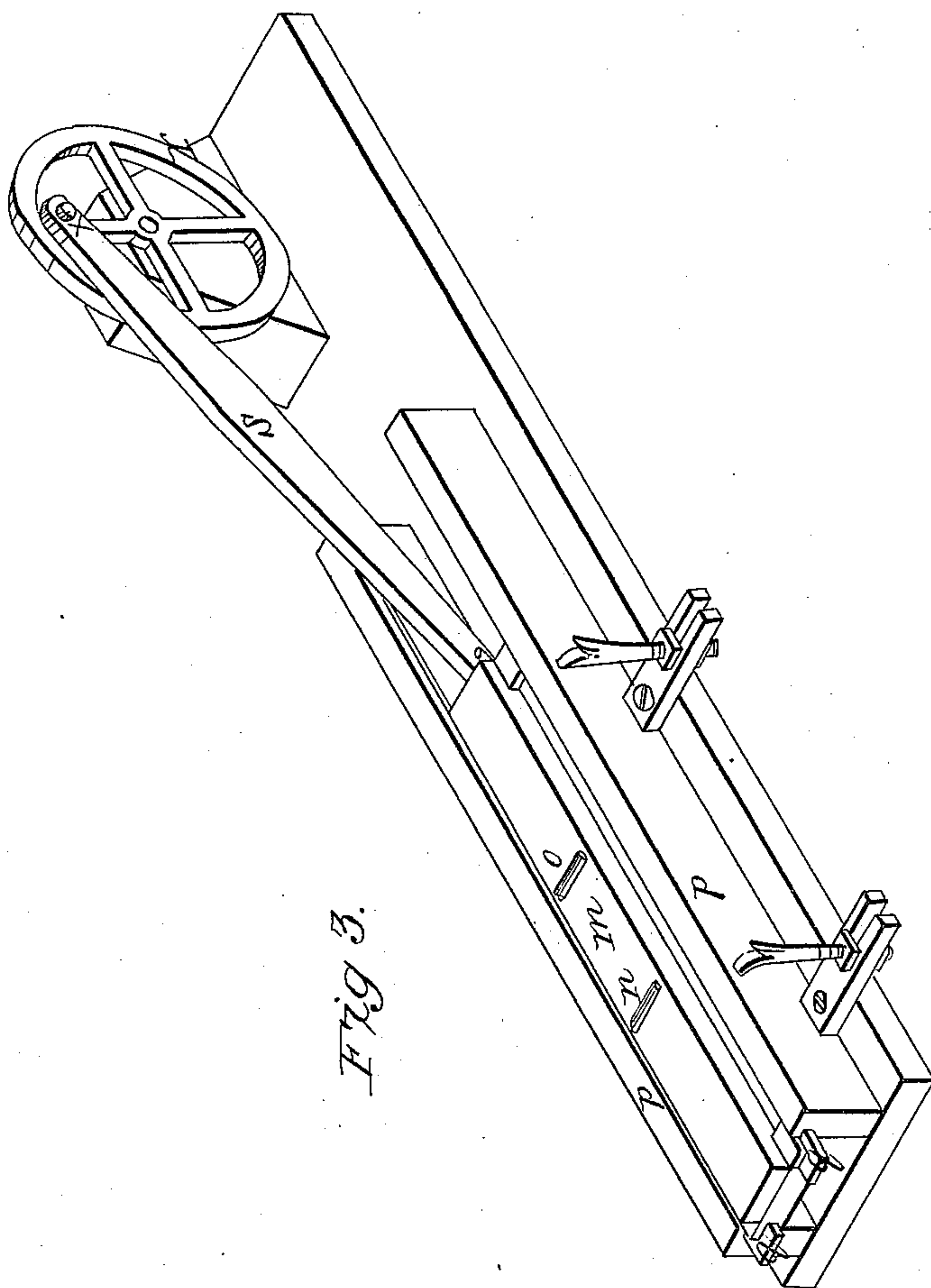


Fig 3.



# UNITED STATES PATENT OFFICE.

HORACE BAKER, OF McLEAN, NEW YORK.

## APPARATUS FOR JOINTING STAVES.

Specification of Letters Patent No. 4,877, dated December 9, 1846.

*To all whom it may concern:*

Be it known that I, HORACE BAKER, of McLean, in the county of Tompkins and State of New York, have invented certain  
5 new and useful Improvements in Machinery for Making Barrels, Firkins, &c., and that the following is a full, clear, and exact description of the principle or character which distinguishes it from all other things before  
10 known and of the manner of making, constructing, and using the same, reference being had to the accompanying drawing, making part of this specification, which is an isometrical view of the apparatus.

15 The nature of my invention consists in the manner of jointing the staves, and in the apparatus for holding them while turning, crozing, &c.

The construction is as follows: Figure 1  
20 represents an isometrical view of the chucks and puppet heads for holding the staves in crozing &c., (*a*) being a flat horizontal plate the edges of which are turned up at right angles, and on the upper part of the said  
25 edges are ribs (*b*) on the outside; on one end of this plate a puppet head (*c*) is fastened having a large hole in its upper end in which a ring chuck or hollow mandrel (*d*) is fitted and turns. On the outside of this  
30 ring is a spur gearing (*e*) into which a chain band from the driving power works; a similar puppet head (*f*) to that already described is made to slide along the ways formed by the edges of plate (*a*)—its base  
35 overlapping the rib (*b*) and turning down under it so as to be firmly held to the bed (*a*) and to have liberty to slide to or from the stationary head (*c*) and it can be fastened in any of the ordinary ways. This  
40 puppet head has also a ring (*g*) in it like that marked (*d*) above described but this is made without the spur gearing.

To fit the stave for this apparatus, it is to be edged which is performed in a machine  
45 described in a previous patent and is then

put into my new improved machine to be jointed. This is shown in Fig. 3 in perspective and the plane detached in Fig. 2; it consists of a jointing plane (*m*) with two sets of irons (*n, o*) set in it about half the  
50 length of the stave to be planed apart and on each side of the center having their edges inclined so as to cut outward from the center in opposite directions; this plane is placed with its face up between two ways  
55 (*p*) having grooves on their inner faces in which ribs (*q*) attached to the sides of the plane move back and forth; this motion is effected by a wheel (*r*) to which it is attached by a pitman (*s*) and crank pin (*t*)  
60 so as to move far enough to bring each of the cutting irons to the center of the stave and thence plane outward to the end.

Its operation is as follows: The stave is bent into a frame now in use and of any of  
65 the usual constructions and the edge of it is brought against the face of the plane which is made to vibrate back and forth a little more than half the length of the stave, and each iron is thus made to cut  
70 from the center outward with the grain of the wood—thus preventing the danger from splitting or running into the stave that the ordinary mode is liable to where the plane runs from end to end.  
75

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

The combination of the carriage for holding the stave with the two planes in one  
80 stock or frame at a distance equal to half the length of the stave and both cutting outward from the center of motion, as herein set forth, substantially in the manner and for the purpose described.

HORACE BAKER.

Witnesses:

GEO. W. HART,  
WM. C. GIGUET.