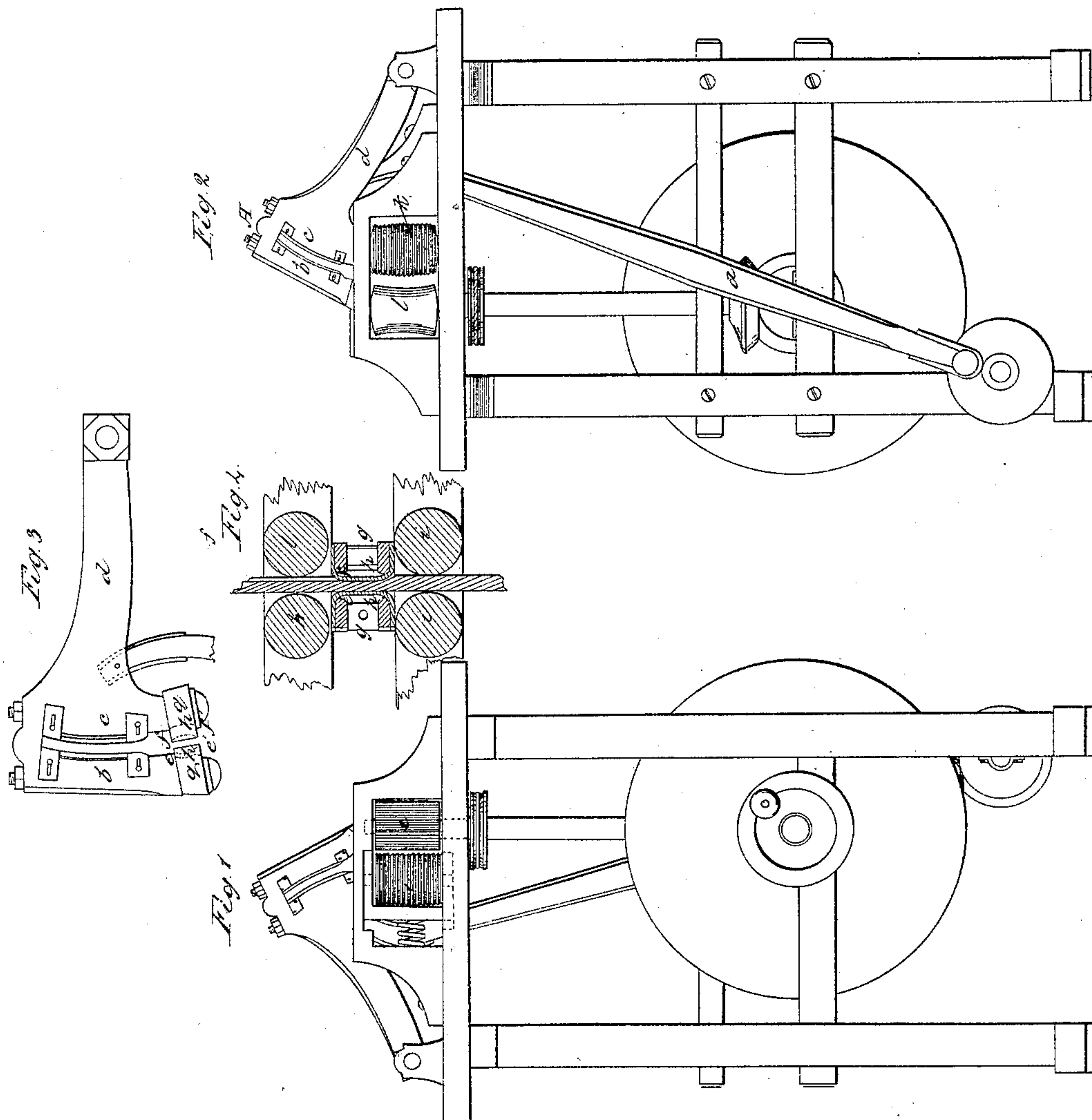


*I. B. Dudley,*  
*Dressing Staves.*

*No. 11,600.*

*Patented Aug. 29, 1854.*



# UNITED STATES PATENT OFFICE.

I. B. DUDREY, OF ATHENS, OHIO.

## STAVE-MACHINE.

Specification of Letters Patent No. 11,600, dated August 29, 1854.

*To all whom it may concern:*

Be it known that I, I. B. DUDREY, of Athens, in the county of Athens and State of Ohio, have invented an Improvement in  
5 Machines for Dressing Staves, 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 usual manner of making, modifying, and using the same, reference being had to the accompanying drawings, of which—

Figure 1 is an elevation of the machine on the feeding side. Fig. 2 is an elevation  
15 of the opposite side where the staves are delivered. Fig. 3 is a detached view of the cutter head and knives. Fig. 4 is a horizontal section through the knives when in the act of cutting the stave.

20 My invention consists in a certain arrangement of the knives, cutter head and guides in a stave dressing machine for cutting and dressing staves at one operation as hereafter set forth.

25 A vibrating arm *a* one end of which is pivoted to the frame of the machine carries on its outer end the cutter head *A*. This cutter head consists of two jaws *b*, *c*, the inner sides of which are curved concentrically with said pivots, thereby forming a  
30 curved slot of the width of a stave and concentric with the center of motion of the cutter head. To the lower ends of these jaws both the knives *e*, *e'* and *f*, *f'* are attached. Each of these knives are bent round  
35 the lower part *g* of the jaw, and a recess

*h* is cut into this part of the jaw so as to form a hollow space between the inside of the jaw and the knife through which space the shavings are to pass. The upper edge  
40 *e f*, as well as the lower edges *e'*, *f'*, of the knives are sharpened. On one side of the cutter head there are two feed rollers *i i'* through which the stave is carried to the knives, which in their circular vibrating motion  
45 dress it simultaneously on both sides and both ways—that is during their upward as well as downward motion. On the other side of the cutter head the stave enters between a pair of guide rollers one of them *l*  
50 being concave and the other *k* convex so as to suit the shape of the stave. By these means the stave is kept steady during the whole of the operation.

What I claim as my improvement in  
55 dressing staves is—

The employment of two knives substantially of the form and action set forth, within the curved jaws of a vibrating cutter head, for cutting the staves both ways—  
60 that is, in the back and forth motion of the cutter head,—all in the manner set forth; and in combination therewith I claim the curved guides or guards for holding the stave when the same has passed the feed  
65 rollers, in the manner and for the purposes set forth.

ISAAC B. DUDREY.

Witnesses:

N. Root,

W. H. BARTLETT.