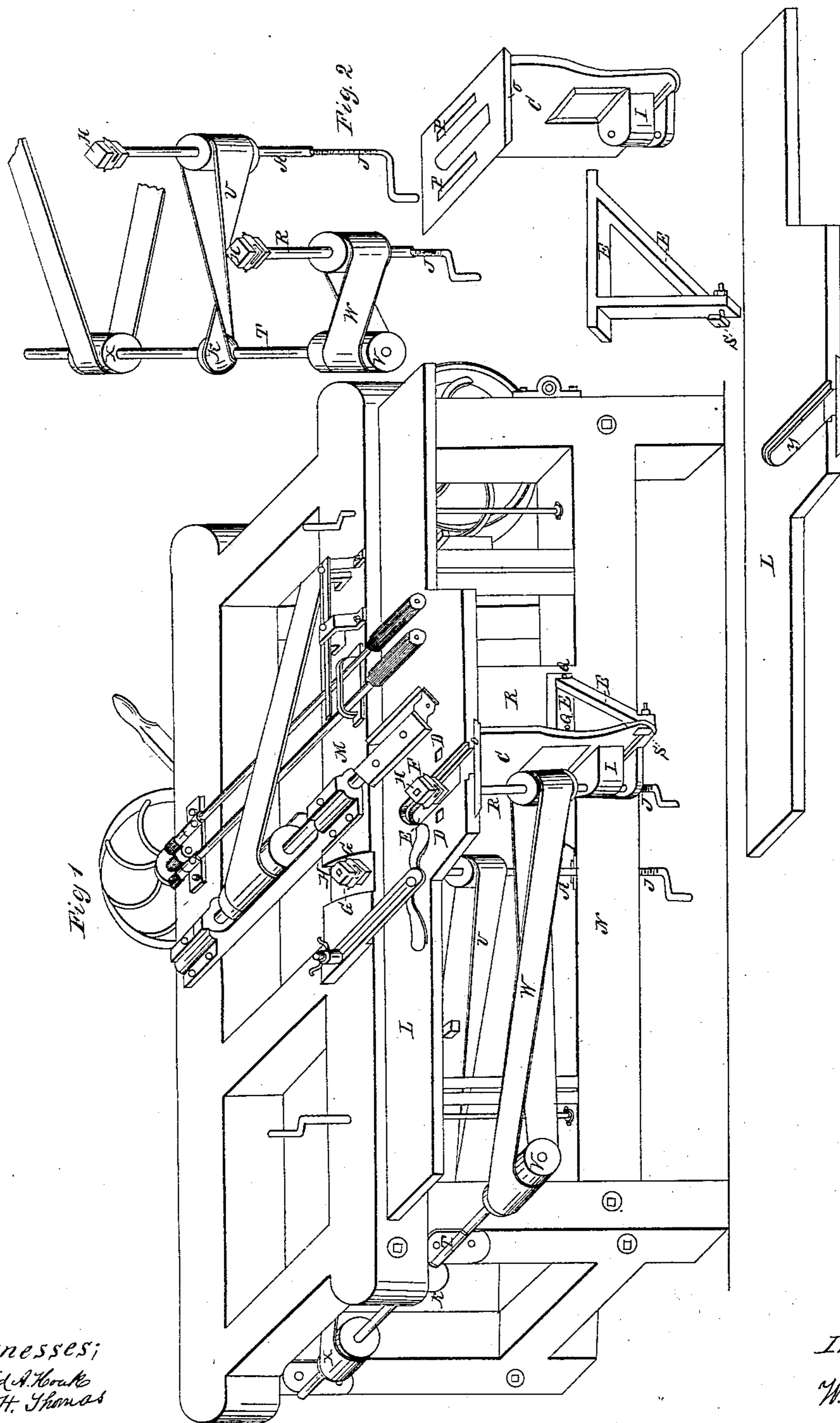


*W. D. Jones,*  
*Wood Molding Machine.*

*N<sup>o</sup> 27,986.*

*Patented Apr. 24, 1860.*



*Witnesses;*  
*David A. Horak*  
*John H. Thomas*

*Inventor,*  
*W. D. Jones*

# UNITED STATES PATENT OFFICE.

WILLIAM D. JONES, OF DAYTON, OHIO.

## METHOD OF ADJUSTING THE PLANERS IN MOLDING-MACHINES.

Specification of Letters Patent No. 27,986, dated April 24, 1860.

*To all whom it may concern:*

Be it known that I, WILLIAM D. JONES, of the city of Dayton, in the county of Montgomery and State of Ohio, have invented a new and useful improvement on the American Eagle sash and molding machine, manufactured by C. B. Rogers & Co., Norwich, Connecticut, to be entitled "William D. Jones's improved sash molding and flooring machine;" and I do 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, Figure 1, as thereon marked, being a perspective or side view showing the improvements and representing the frame of the said "American Eagle sash and molding machine," with the improvements marked thereon which the said WILLIAM D. JONES claims to have added and attached thereto and which as thus improved he claims to be his invention, said improvements being as follows, to wit: 1st, the edge working apparatus, being the two upright shafts marked "A" and "B," Fig. 1, and the manner in which the same are attached to wit: "A" is attached by means of a box let into the lower part of the upper timber "M" one and a half inches from the face of the same, and a step marked "I," on the upper side of the lower timber of the frame, marked "N."

The head "H" containing the bits marked "G," "G," is sunk in the upper part of the timber "M"—by means of an opening, cut cross-wise through the upper face of said timber to the depth of two inches, and of sufficient width to allow said head with the bits therein as above described to revolve without obstruction.

The shaft "B" is attached to the iron slide frame "C," on the lower side of the horizontal part of said frame marked "O," by means of a cast box on the under side of said "O," and at the lower end of the said shaft "B" is attached by means of the step "I," cast on the lower end of said iron frame "C." The above described "O" being the horizontal part of the iron frame "C," is dovetailed into the lower side of the bed plate "L," and is adjusted to suit the size of the lumber to be worked, by means of sliding out or in, the said "O" being secured to the bed plate "L" by means of the iron bolts marked "D," "D," which pass through said "L" and "O," there being slots in plate

"O" as represented in "Fig. 2" by the letters "P," "P," which said slots allow the said "O" to slide in and out as above described. The lower end of said iron plate "C," is secured by the brace marked "E," "E," in Fig. 1, which is bolted by the iron bolts marked "Q," "Q," to the upright timber "R," said brace being also bolted, by the iron bolt "S" to the lower part of the iron slide frame "C," with a slot in said frame "C," represented by the two parallel ink lines running inward from said bolt "S" so as to allow said bolts to pass through it as the frame "C" slides in and out, in adjusting it as aforesaid to suit the size of the timber to be worked.

The shafts "A" and "B" are adjusted to suit the size of the timber to be worked by raising or lowering the same by means of the set screws marked "J," "J."

The heads "H," "H," containing the bits "G," "G," and "F," "F," are solid in the shafts, the said bits being dovetailed into the heads "H," "H," and fastened by means of a set screw, each bit being but one piece; and each bit having a slot in the back end of the same to straddle the said set screws.

The horizontal shaft "T" drives the upright shaft "A," by means of a ball or oval pulley marked "K," over which the belt "U" passes, connecting said shafts as shown in Fig. 1. The said pulley "K" is made oval as it is not in a direct line with the shaft "A." It would, therefore, be impossible to run said shaft "A" with a straight pulley at "K." The pulley "V" is a long straight pulley, and is used by the belt "W" to run the shaft "B." The pulley "X," gets its power from a pulley on the "American Eagle machine" above alluded to and being at the right end of said "American Eagle sash and molding machine." The several detached parts represented more fully in the drawing marked "Amended drawing," and in Fig. 2 thereof, are the specific improvements which I claim to have made on the aforesaid "American Eagle sash and molding machine"—being as follows to wit:

The shafts marked "A," "B," and "T," with the heads "H," "H," and the bits in said heads marked "F," "F," and "G," "G," also the set screws in said shafts "A" and "B," marked "J," "J," also the ball or oval pulley "K," and pulleys "V" and "X," also the the iron slide frame "C," together with horizontal part thereof marked "O,"

and the slots therein marked "P," "P," and  
"Z," also the step "I," on the iron slide  
frame "C," also the brace marked "E,"  
"E," with the bolts in the same at "Q,"  
5 "Q," and "S," also the slot marked "Y" in  
the bed plate "L." The slot "Z," in the de-  
tached iron sliding frame "C" in said Fig.  
2, of amended drawing and also the said slot  
"Y," in the detached iron bed plate "L," in  
10 same drawing and figure, are the openings  
in which the head "H" on shaft "B" re-  
volves as shown in Fig. 1 of said amended  
drawing. The above several parts of ma-  
chinery and improvements, as set forth and  
15 shown in Fig. 2 of said amended drawing,

and herein described, are all additional parts  
and improvements.

What I claim as new and of my inven-  
tion, and desire to secure by Letters Patent,  
is—

The arrangement of the shafts A, B, and  
T, in their relation to each other and to the  
parts of the machine to which they are con-  
nected, the two first named shafts being sus-  
ceptible of both vertical and lateral adjust- 25  
ment as herein set forth.

WILLIAM D. JONES.

Witnesses:

JOHN H. THOMAS,  
DAVID A. HOUK.