

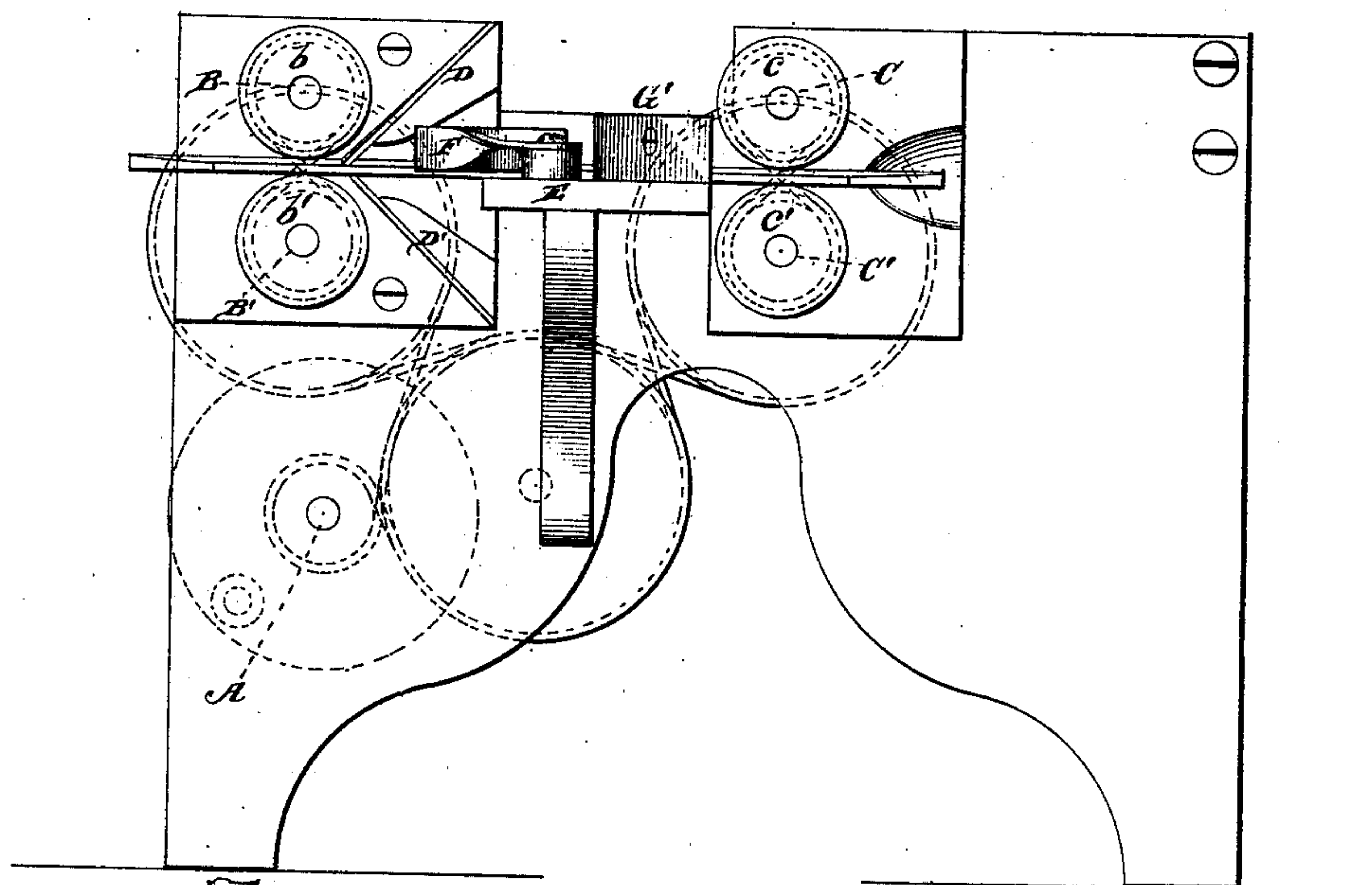
(Model.)

A. JONES.  
Machine for Shaving Hoops.

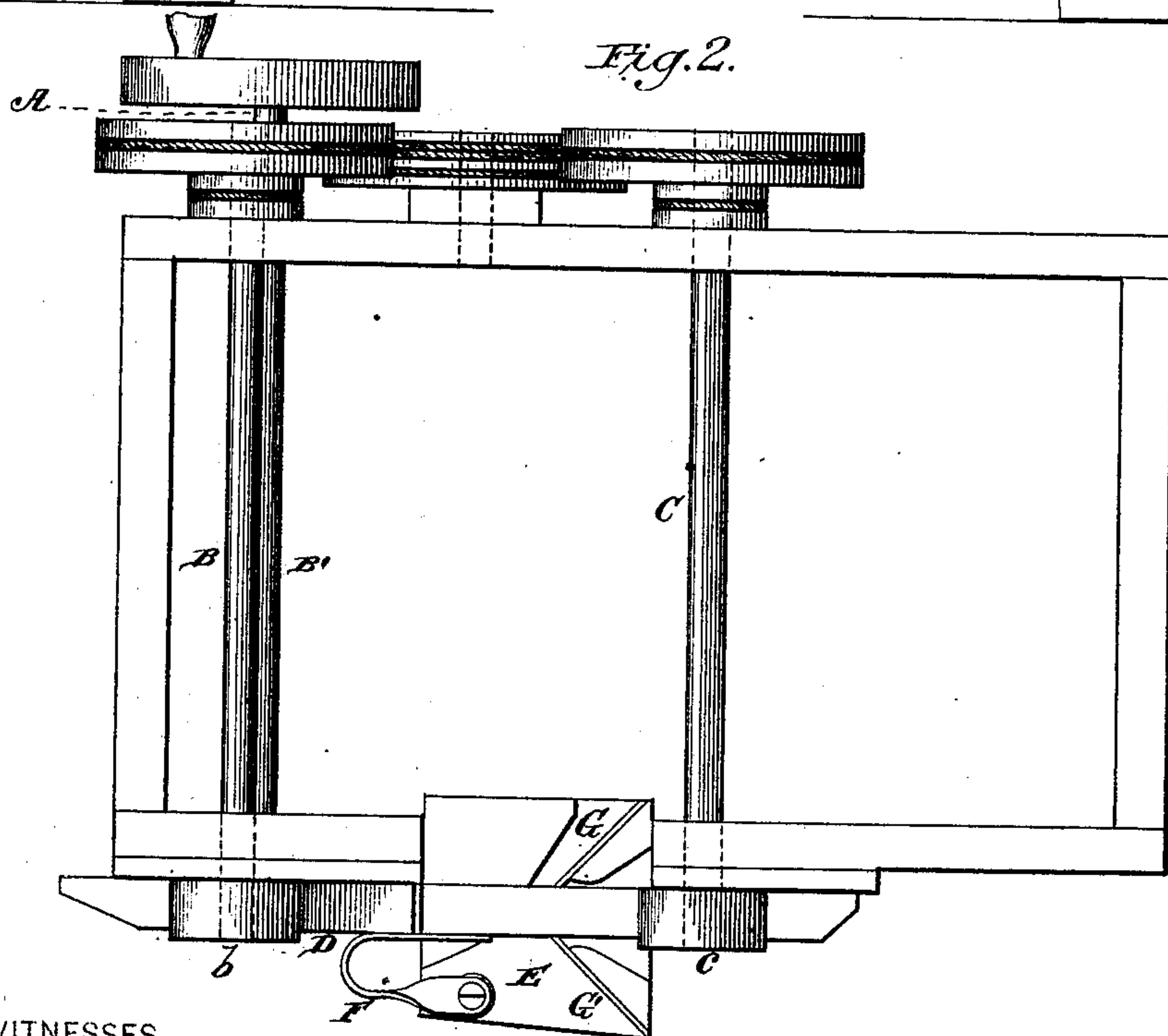
No. 235,250.

Patented Dec. 7, 1880.

*Fig. 1.*



*Fig. 2.*



WITNESSES

*John A. Ellis.*  
*Robert Everett.*

INVENTOR

*Arthur Jones.*  
*by E. W. Anderson*  
*his* ATTORNEY

# UNITED STATES PATENT OFFICE.

ARTHUR JONES, OF MARTIN'S FERRY, OHIO.

## MACHINE FOR SHAVING HOOPS.

SPECIFICATION forming part of Letters Patent No. 235,250, dated December 7, 1886.

Application filed September 29, 1880. (Model.)

*To all whom it may concern:*

Be it known that I, ARTHUR JONES, of Martin's Ferry, in the county of Belmont and State of Ohio, have invented a new and valuable Improvement in Machines for Shaving Hoops; 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, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a representation of a side elevation. Fig. 2 is a plan.

This invention relates to machines for shaving hoops; and it consists in the construction and combination of parts hereinafter specified.

In the drawings, A represents a drive-shaft, which gears in any suitable manner with the transverse shafts B B' and C C'. Upon the ends of these latter shafts, opposite to which the power is applied, there are fastened rollers b b' c c', which said rollers act as a feed to bring the work to the knives.

Immediately back of rollers b b' are located the vertical knives D D', which shape the faces of the work. At the rear of these knives there is located a bracket, E, which is let into a recess in the side of the frame. Upon the outer edge of this bracket, at its forward end, there is placed a plate-spring, F, which, exerting an inward pressure, keeps the work steady. Back of this are located two horizontal knives, G G', which trim the edges of the work. One of these knives, G', is located on the bracket outside

the frame, the other, G, within the recess in the frame. Back of these knives are the feed-rollers c c'.

As the work is fed to the rollers b b' these latter gripe it and pass it on to the vertical knives D D', which shape the faces. It is then forced upon the bracket E, which is beveled in front to facilitate such action, and the spring F forms a horizontal guide to guide it true to the knives G G', and the rollers c c' conduct it off.

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

1. In a hoop-shaving machine, a pair of vertical knives and a pair of horizontal knives, in combination with an intervening spring arranged horizontally and adapted to bear upon the edge of the work in passing from one pair of knives to the other.

2. In a hoop-shaving machine, the combination of vertical knives D D', horizontal knives G G', and intervening horizontally-acting spring F, in combination with two pairs of feed-rollers, one pair in front of the vertical, the other pair back of the horizontal, knives.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

ARTHUR JONES.

Witnesses:

GEORGE MCKIM,  
SAMUEL GARRETT, Jr.