

A. J. PHILPOTT & G. W. HORTON.
Hoop-Shaving Machine.

No. 216,216.

Patented June 3, 1879.

Fig. 1.

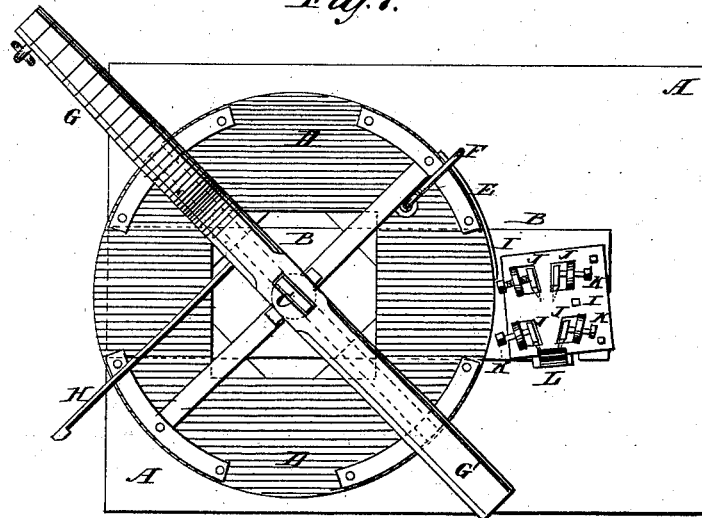


Fig. 2.

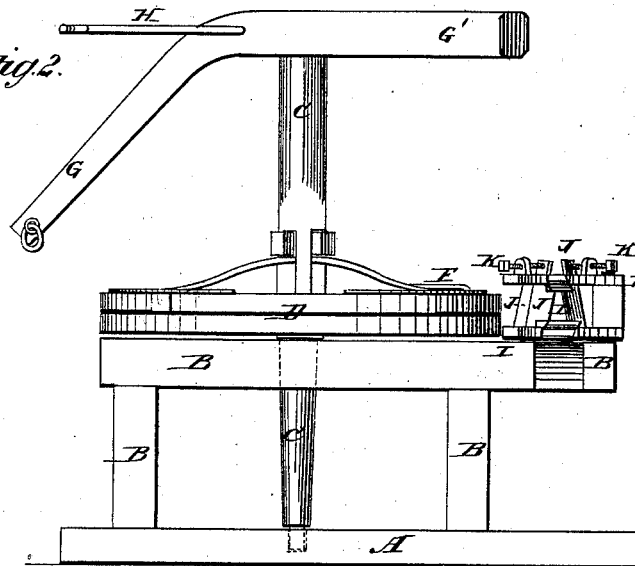
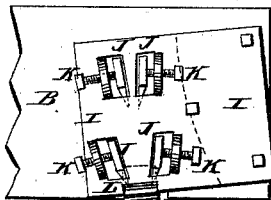


Fig. 3.



WITNESSES:

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C. Sedgwick

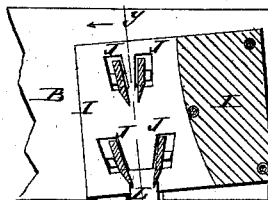
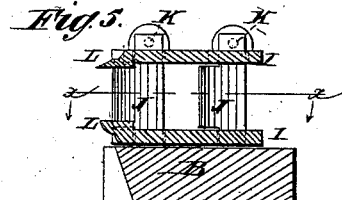


Fig. 4.



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UNITED STATES PATENT OFFICE.

AUGUSTINE J. PHILPOTT AND GEORGE W. HORTON, OF OWENSBOROUGH,
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IMPROVEMENT IN HOOP-SHAVING MACHINES.

Specification forming part of Letters Patent No. **216,216**, dated June 3, 1879; application filed
March 25, 1879.

To all whom it may concern:

Be it known that we, AUGUSTINE J. PHILPOTT and GEORGE W. HORTON, of Owensborough, in the county of Daviess and State of Kentucky, have invented a new and useful Improvement in Machines for Shaving Hoops, of which the following is a specification.

Figure 1 is a top view of our improved machine. Fig. 2 is a side view of the same. Fig. 3 is a top view of the cutters and cutter-holder. Fig. 4 is a horizontal section of the same, taken through the line *x x*, Fig. 5. Fig. 5 is a vertical section of the same, taken through the line *y y*, Fig. 4.

Similar letters of reference indicate corresponding parts.

The object of this invention is to furnish an improved machine for shaving hoops which shall be so constructed as to shave the sides and edges of the hoops at one operation, which may be adjusted to shave thicker or thinner hoops, and which shall be simple in construction, convenient in use, and reliable in operation.

The invention consists in the combination of the two pairs of upright knives, the pair of horizontal knives, the set-screws, and the knife-holder with the frame, the wheel provided with the corrugations and the hook, the shaft, and the sweep, as hereinafter fully described.

A represents the base of the machine, to which, across its middle part, is attached an upright frame, B. C is an upright shaft, which passes down through a hole in the top bar of the frame B, and its lower end revolves in a socket or step at the center of the base A.

To the shaft C, just above the top bar of the frame B, is attached a large wheel, D, the face of which is made flat, and in one place has corrugations E formed in it, or has a corrugated plate attached to it, against which the loop is held by the hook F, pivoted to the said wheel D. To the upper end of the shaft C is attached the sweep G, one or both ends of which are inclined downward to bring them into proper position for horses to be attached to them. To the sweep G is attached a pole, H, for the lead-rein of the horse to be attached to. One end of the top bar of the upright

frame B projects, and to its upper side is securely bolted the holder I, which is made in the form of a box, open upon its inner and side edges.

J are four knives or cutters, the lower ends of which are inserted in sockets in the lower plate of the holder I, and their upper ends are inserted in short slots in the top plate of the said holder. The upper ends of the knives J, or both ends, are adjusted closer together or farther apart by set-screws K, passing through lugs formed upon the said plate or plates, and resting against or swiveled to the said ends. The knives J are arranged in pairs, the edges of the knives of each pair being inclined toward each other, and the knives of the forward pair being set farther apart than the knives of the rear pair, as shown in Figs. 1, 3, and 4.

With this arrangement the forward knives J take the rough off the sides of the hoops, and the rear knives J reduce them to the desired thinness.

To the forward edges of the upper and the lower plates of the holder I, opposite the space between the knives J, are attached two knives, L, to shave off the edges of the hoops and bring them to the desired breadth.

In using the machine, the end of the hoop to be shaved is passed through between the knives, and is secured against the corrugated face of the wheel D by the hook F, and is drawn through by the revolution of the said wheel, being reduced to the desired size at a single operation.

Having thus described our invention, we claim as new and desire to secure by Letters Patent—

The combination of the two pairs of upright knives J, the pair of horizontal knives L, the set-screws K, and the knife-holder I with the frame B, the wheel D, provided with the corrugations E and the hook F, the shaft C, and the sweep G, substantially as herein shown and described.

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Witnesses:

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