W. M. Bullock,

Making Fellies.

No. 15,727. Patented Sep. 16, 1856.

Fig. 1.

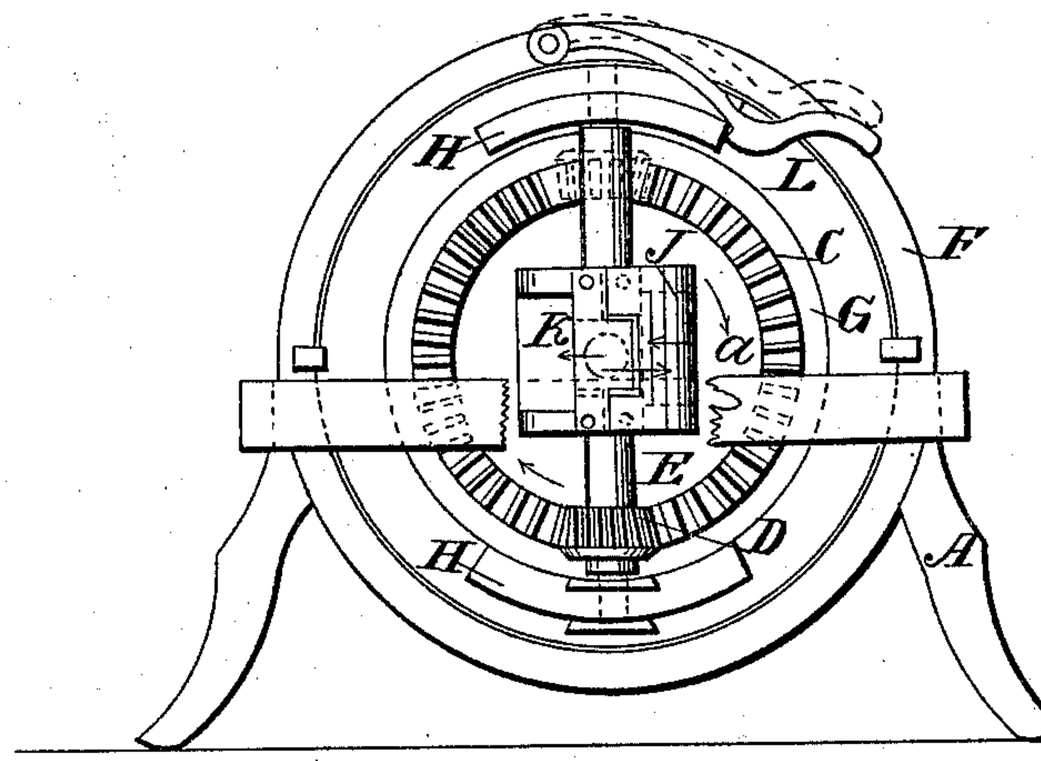
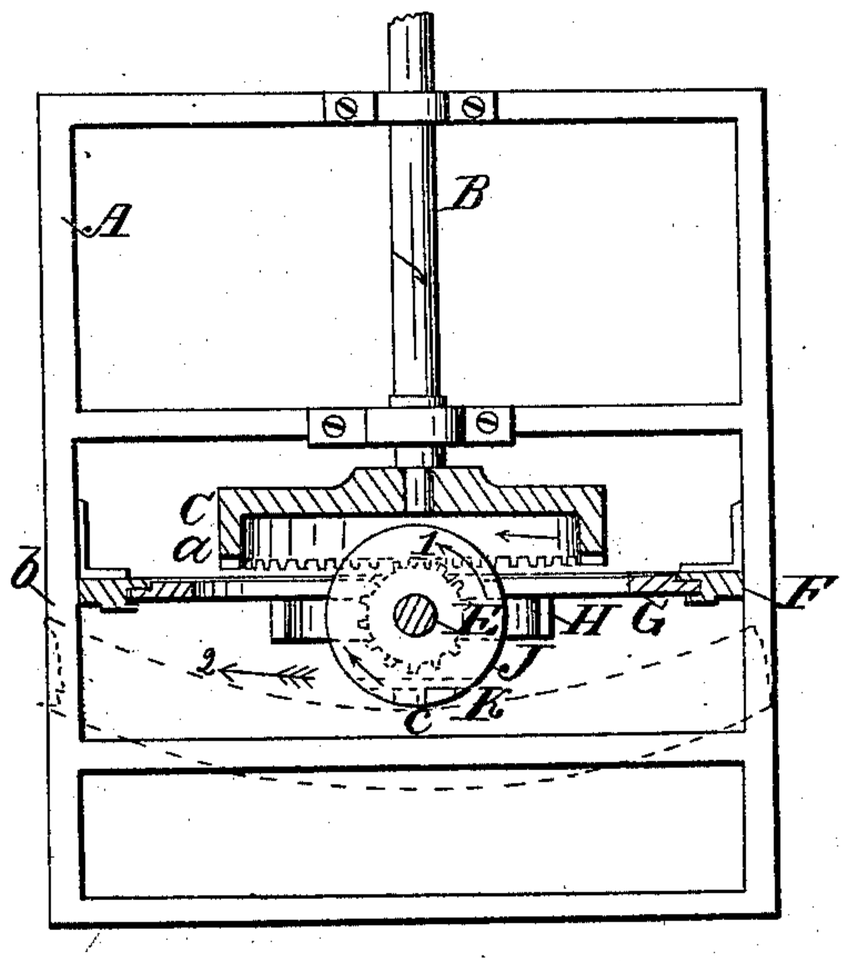


Fig. 2.



A.M. PHOTO-LITHO. CO. N.Y. (OSBORNE'S PROCESS)

UNITED STATES PATENT OFFICE.

W. M. BULLOCK, OF MARCY, INDIANA.

MACHINE FOR DRESSING FELLIES.

Specification of Letters Patent No. 15,727, dated September 16, 1856.

To all whom it may concern:

Be it known that I, WILLIAM M. BULLOCK, of Marcy, in the county of Lagrange and State of Indiana, have invented a new and Improved Machine for Dressing Fellies; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawings, making a part of this specification, in which—

Figure 1, is a front view of my improvement. Fig. 2, is a horizontal section of ditto, the plane of section being through the center.

Similar letters of reference indicate corresponding parts in the two figures.

To enable those skilled in the art to fully understand and construct my invention, I will proceed to describe it.

A, represents a rectangular frame, on the upper part of which a shaft B, is placed, having a disk-shaped wheel C, on its inner end, the rim or flange (*a*) of said wheel being toothed, and gearing into a pinion D, on a shaft E.

F, represents a metallic ring or band, which is secured vertically in the frame A, and concentric with the wheel C, and G, is a ring or band fitted within the ring or band F, and between lips or flanges, so that it may turn within the ring or band F. The bearings H, of the shaft E, are attached to the ring or band G. On the shaft E, there is fitted a cylindrical head J, to which a vertical cutter K, is attached.

The fellies are sawed in proper form, and are placed singly or one at a time on a suitable bed, which moves in the arc of a circle. A rotary motion is given the cutter head J, by means of the wheel C, and pinion D, and the cutter K, as the head J, rotates, smoothes or dresses the felly, see Fig. 2, in which the felly is shown in red. One half of the felly is smoothed when the head J, turns in one direction, or when the cutter reaches or acts upon the center of the felly, the motion of the cutter must be reversed in order to do smooth work, because the fellies are of curved form, and are cut from straight grained wood, and the cutter must cut outward from the grain, and not toward it, and the cutter cannot cut outward from the grain the whole length of the felly, without having either the cutter or felly reversed.

By my improvement the cutter is reversed, and in the following manner: Suppose for instance the cutter head J, rotates in the direction indicated by the black arrow 1, the felly being moved in the direction of arrow 2, as shown in Fig. 2. The felly will be cut from (*b*) to (*c*) outward from the grain. The shaft E, is prevented from turning by a stop L, attached to the ring or band E, the upper bearing of the shaft E, catching against the stop L, but when the felly is moved along, so that the cutter K, acts upon the center of the felly, the stop L, is raised and the ring or band G, is turned by the action of the wheel C, upon the pinion D, till the pinion D, which was formerly at the lower part of the wheel C, is at the upper part, see red lines, Fig. 1, and the motion of the cutter head will consequently be reversed, as shown by the red arrow, and the remaining portion of the felly will be cut outward from the grain, as indicated by the red arrow. When the motion of the cutter is reversed, the lower bearing, or that which was formerly the lower bearing, rests or bears against the stop L.

The invention is extremely simple and efficient, may be constructed at a small cost, and the machine will work expeditiously and well.

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

The rotating ring or band G, placed within the stationary ring or band F, the ring or band G, having the cutter head shaft E, fitted to it, the shaft E, being rotated by the gearing C, D, as shown and described, for the purpose specified.

WM. M. BULLOCK.

Witnesses:

WILLIAM R. HILL,
EBENEZER HILL,
J. THOMAS STARKEY.