2 Sheets-Sheet 1.

J. Dobbins,

Making Hoops.

No. 48,535. Patented July 4, 1865.

Fig. 2.

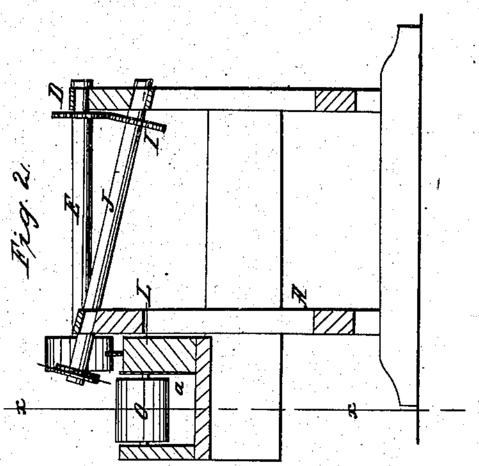
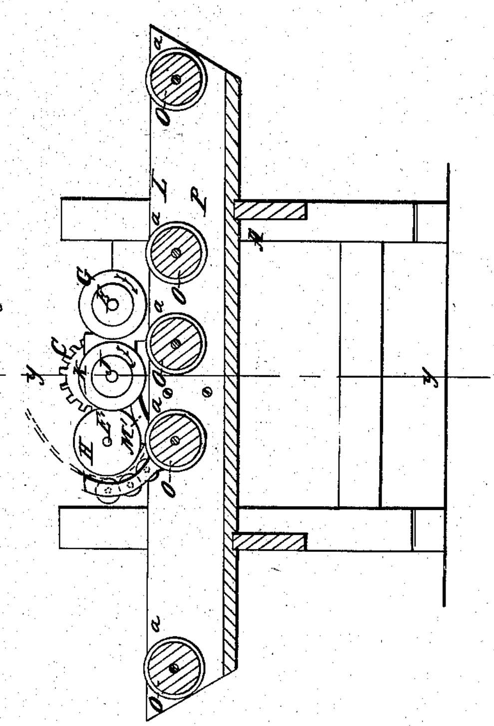


Fig. 1.



Witnesses:
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Wm. Trewin

Inventor:
J Dobbins
By Munn & Co
Attys

2 Sheets, Sheet 2.

J. Dobbins,

Making Hoops.

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Fig. 4.

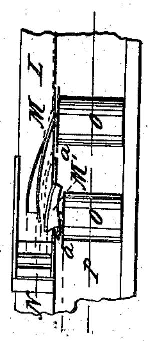
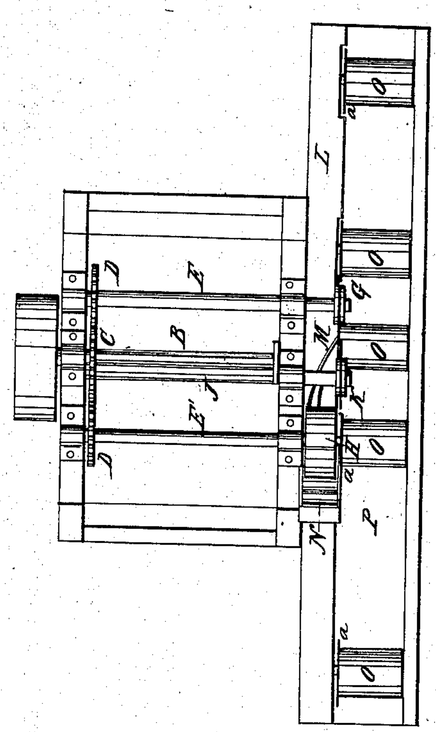


Fig. 3.



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UNITED STATES PATENT OFFICE.

JACOB DOBBINS, OF LITCHFIELD, MICHIGAN.

IMPROVEMENT IN HOOP CUTTING AND BENDING.

Specification forming part of Letters Patent No. **48,535**, dated July 4, 1865.

To all whom it may concern:

Be it known that I, JACOB DOBBINS, of Litchfield, in the county of Hillsdale and State of Michigan, have invented a new and Improved Machine for Cutting Hoops; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1, Sheet No. 1, is a side sectional view of my invention, taken in the line *x x*, Fig. 2; Fig. 2, a transverse vertical section of the same, taken in the line *y y*, Fig. 1; Fig. 3, Sheet No. 2, a plan or top view of the same; Fig. 4, a detached plan or top view of the guides which properly direct the hoops as they are sawed to the rollers which bend them.

Similar letters of reference indicate like parts.

This invention relates to a new and improved machine for cutting hoops for barrels, casks, &c.; and it consists in the employment or use of two circular knives, arranged with guides and rollers, as hereinafter set forth, whereby the work may be done rapidly and in a perfect manner.

A represents a framing, which may be constructed in any proper manner to support the working part, and B is a driving-shaft placed thereon, having upon it a toothed wheel, C, which gears into corresponding wheels D D on shafts E E′, which are also placed on the framing A. The shaft E has a circular knife, G, on one end, and the shaft E′ has a roller, H, on one end. The wheel C of shaft B gears into a wheel, I, on an inclined shaft, J, which has a circular knife, K, upon it, the inclination of shaft J giving the knife K an inclined or oblique position relatively with the knife G, as shown clearly in Fig. 2.

The roller H is at one side of the knives G K, and is directly over a bed, L, on which guides M M′ are placed. These guides have a spiral position, and are designed to turn the hoops as they are cut from the bolt by the knives and present the hoops flatwise underneath the roller H, as will be fully understood by referring to Fig. 4.

At the rear side of the roller H there are a series of smaller rollers, N, which are placed in the arc of a circle, as shown clearly in Fig. 1.

O represents a series of rollers, on which the bolt from which the hoops are cut is fed to the knives, said rollers being at or in the upper part of a trough, P, at the side of the framing, and having a flange, *a*, at one end. The knives rotate in the direction indicated by the arrows in Fig. 1, and two hoops are cut from the bolt simultaneously, the hoop cut by the first knife being guided and turned over flatwise by the guide M, while the hoop cut by the second knife is guided and turned over by the guide M′. These hoops pass between the rollers H and N, and are curved or bent in circular form thereby. In consequence of having the knife K in an oblique position relatively with the knife G, the hoops will be cut in beveled form to suit the bilge of the cask or barrel.

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

The rotating knives G K and guides M M′, in combination with the rollers H N for bending the hoops as they are cut, all substantially as and for the purposes set forth.

JACOB DOBBINS.

Witnesses:

C. J. CHADDOCK,

ANDREW P. HOGARTH.