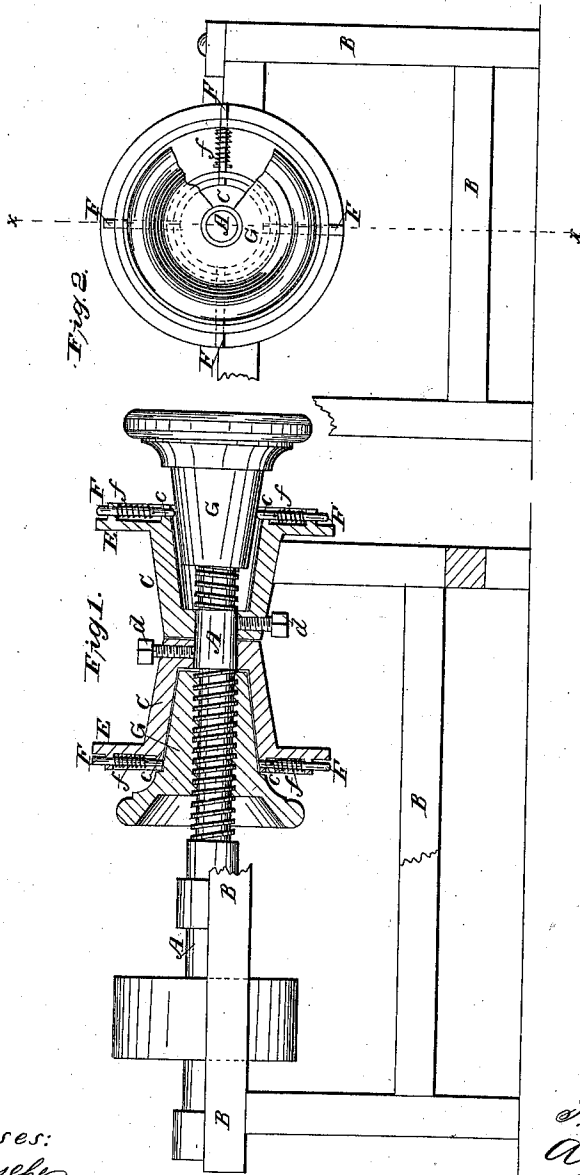


*Arnold & Clark,  
Crossing Stars.*

*N<sup>o</sup> 81,575.*

*Patented Sep. 1, 1868.*



*Fig. 2.*

*Fig. 1.*

*Witnesses:  
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S. J. Arnold,  
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United States Patent Office.

SAXTON J. ARNOLD AND AMOS F. CLARK, OF RAYMONDSVILLE, NEW YORK,  
ASSIGNORS TO SAXTON J. ARNOLD, OF SAME PLACE.

Letters Patent No. 81,575, dated September 1, 1868.

IMPROVEMENT IN MACHINES FOR MAKING BARRELS.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that we, SAXTON J. ARNOLD and AMOS F. CLARK, of Raymondsville, in the county of St. Lawrence, and State of New York, have invented a new and useful Improvement in Machinery for Turning and Finishing Barrels; and we do hereby declare that the following is a full, clear, and exact description thereof, which will enable those skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification.

This invention relates to an improvement in machinery for turning and finishing barrels, and consists of a device for holding the barrel in a convenient position for the conduct of these operations.

In the accompanying drawings—

Figure 1 is a vertical section of our improved device, showing one of the nuts in side view, and

Figure 2 is an end view thereof, with a segment of the same nut broken away.

Similar letters of reference indicate corresponding parts.

A is the shaft on which our device is arranged, and is held firmly in bearings in the frame B.

C C are hollow truncated-cone-shaped hubs, (their truncated extremities being set toward each other,) and are held in their required positions by the set-screws *d d*.

These hubs are provided with T-shaped flanges E, either bolted to them or cast in one piece with them.

The pins F, held down by springs *f*, play through the flange and the end, *e*, of the hub C, as shown in the drawing.

The screws on the shaft A are opposite right-and-left screws, so that, as the shaft revolves, the cone-shaped nuts G have a tendency to approach each other.

These nuts, as they advance within the cone-shaped hubs C, come in contact with the inner ends of the pins F, and push them out, until they come in contact with the inner surface of the barrel, which is placed upon the flanged conical hubs C.

By these pins the barrel is securely held, the set-screws preventing the hubs from being driven together closer than desired.

In using the machine, the barrel is first set up in truss-hoops.

It is then placed upon the flanged hubs, and secured in place by screwing up the nuts G, which force the pins F upon the barrel, as before described, and is then made to revolve with the shaft A.

When thus held, the outside of the barrel may be turned, and the ends crozed as desired.

We claim as new, and desire to secure by Letters Patent—

The adjustable flanged cone-shaped hubs C, when provided with the sliding pins F and springs *f* in the flange E, in combination with the cone-shaped nuts G, and screw-shaft A, as herein shown and described.

SAXTON J. ARNOLD,  
AMOS F. CLARK.

Witnesses:

T. S. HALL,  
S. N. BABCOCK.