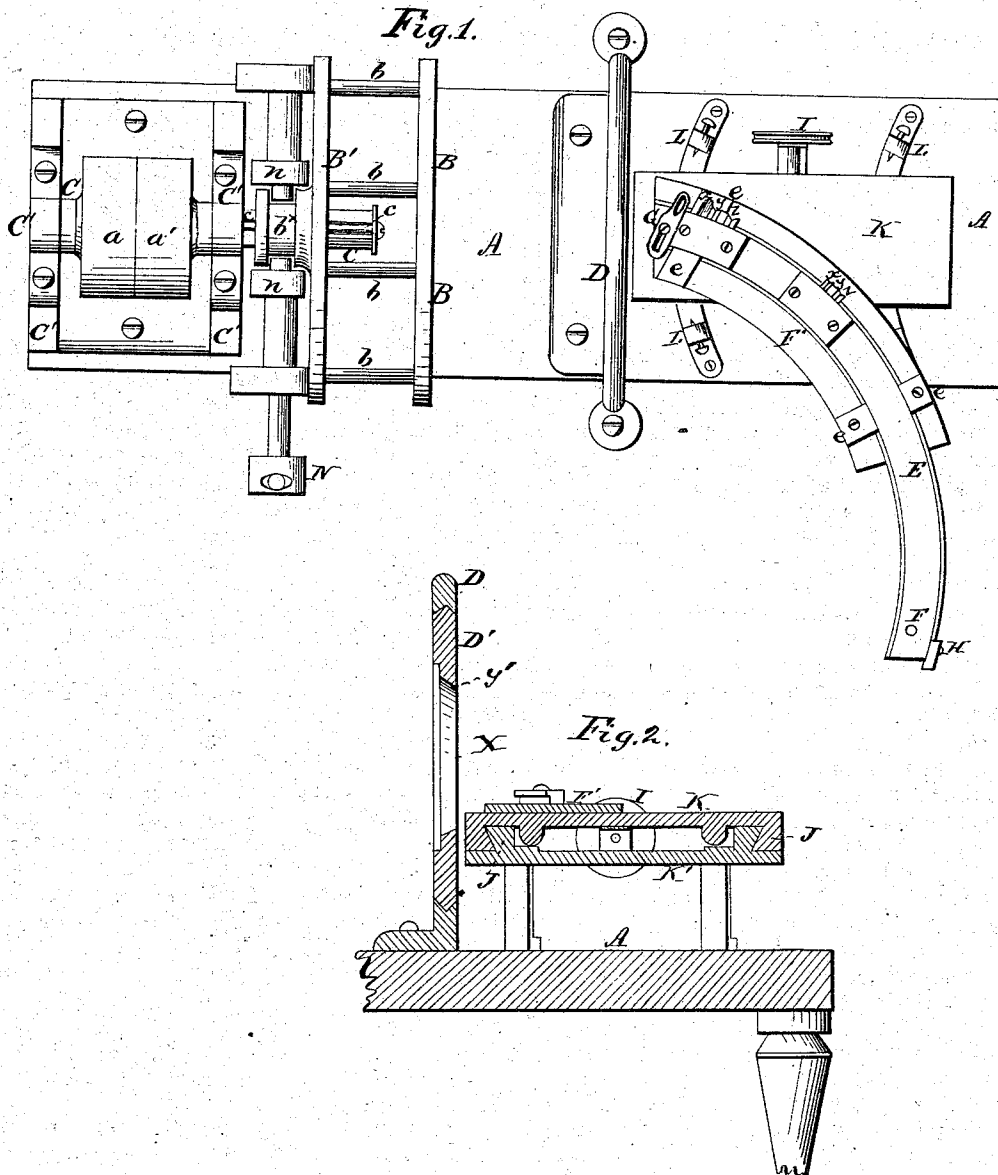


A. MILLER.

Machines for Dressing and Crozing Barrels.

No. 154,884.

Patented Sept. 8, 1874.



WITNESSES.

W. T. Newman,
Wm. H. Greenleaf

INVENTOR

Alfred Miller

By

Leggett & Leggett
 Attorneys.

UNITED STATES PATENT OFFICE.

ALFRED MILLER, OF CINCINNATI, OHIO, ASSIGNOR TO CHARLES H. WATERS & CO., OF SAME PLACE.

IMPROVEMENT IN MACHINES FOR DRESSING AND CROZING STAVES.

Specification forming part of Letters Patent No. 154,884, dated September 8, 1874; application filed December 27, 1873.

CASE A.—(No. 2.)

To all whom it may concern:

Be it known that I, ALFRED MILLER, of Cincinnati, in the county of Hamilton and State of Ohio, have invented certain new and useful Improvements in Machinery for Dressing and Crozing Staves; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it pertains to make and use it, reference being had to the accompanying drawings, which form part of this specification.

My invention relates to improvements in machines for dressing and crozing barrels, kegs, and buckets.

In the drawings, Figure 1 represents a plan view; Fig. 2, a longitudinal section of one end of the machine.

My invention consists in the combination of devices and appliances, as hereinafter set forth and claimed, in which—

A represents a table, upon which the different parts of the machine are mounted. B D are the movable and the stationary heads of the machine. C is the driving-shaft, mounted in bearings C'. *a a'* are the driving and idle pulleys on the shaft C. The movable head, which consists of the two plates or rims B B', connected together by bolts *b*—or curved arms may be used—is secured to the shaft C by means of a key in a groove or key-seat, *c*. N is a lever, the arms *n n* of which engage in a collar, *b^x*, on head B, and by which the head is reciprocated backward and forward on shaft C. The stationary head D consists of an inclosing-ring, within which is fitted, so as to revolve loosely, a rim, D'. K is a platform, secured to the bed K' by the dovetail-cleats J, and adapted to reciprocate therein by means of the screw I, attached to the under side of the platform K. L L are screw-stops, which limit the movement of the platform K. Attached to a curved way, F', on the platform K, by means of cleats *e*, is a curved slide or tool-holder, E, which secures the different cutting tools or bits G *x y z*, &c., which are all adjustable. F is a handle, and

H a stop, on the slide E. The openings X of the rim or disks B D are beveled, as shown at *y'*, Fig. 2.

The operation of this machine is as follows: The lever N is raised, throwing backward head B on shaft C. The keg is then placed in heads B and D. The lever N is forced down, and the head B forced forward over the keg, and clamping it tightly against the rim D' of the head D. The machine is then set in motion and the keg caused to revolve. The slide E is then forced into the keg by handle F, as far as stop H, the tool G turning off the keg upon the inside as the slide is forced forward. As soon as the stop H on the slide F reaches the cleat *e*, the platform K is drawn forward by means of the screw I, which brings platform K and slide E, containing the tools *x y z*, &c., forward into the chimes of the keg. By this means the keg is chamfered, crozed, and howeled at both ends, the depth of cut being regulated by the screw-stops J J. The wheel I is then reversed, running slide E and platform K back, the slide E withdrawn from the keg by the handle F, the machine stopped by running the driving-band on the idle pulley, and the lever N is raised, forcing back head B, which releases the keg from heads B and D.

I am aware of the patent granted to Wm. Brown, July 29, 1873, for machine for dressing and crozing barrels, and do not claim the device there shown.

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

1. The curved tool-holder E, arranged to slide in a stationary curved guide, F', which is the continuation of the bilge-curve of the barrel, substantially as described.

2. In combination with the curved tool-holder E and stationary curved guide F', the knives G *x y z*, &c., for chamfering, howeling, crozing, and otherwise finishing the barrel or cask at one operation, substantially as described.

3. In combination with the curved tool-

holder E F', and platform K, the horizontally-adjusting screw I, as and for the purposes shown.

4. In combination with the curved tool-holder E, the adjustable laterally-sliding platform K, as and for the purposes described.

5. In combination with the laterally-sliding platform K, and adjusting device I, the adjustable screw-stops L L, as and for the purposes set forth and shown.

6. The combination of the shaft C, provided with the pulleys *a a'*, sliding clamp-head B B', operating-lever N *n n*, stationary revolving

head D D' *x y'*, platform K, curved tool-holder E, provided with knives G *x y z*, &c., and stop H, adjusting device I, and screw-stops L L, all constructed, arranged, and operating substantially as and for the purposes set forth and described.

In testimony that I claim the foregoing I have hereunto set my hand this 22d day of December, 1873.

ALFRED MILLER.

Witnesses:

F. H. ROWEKAMP,

B. HUESMAN.