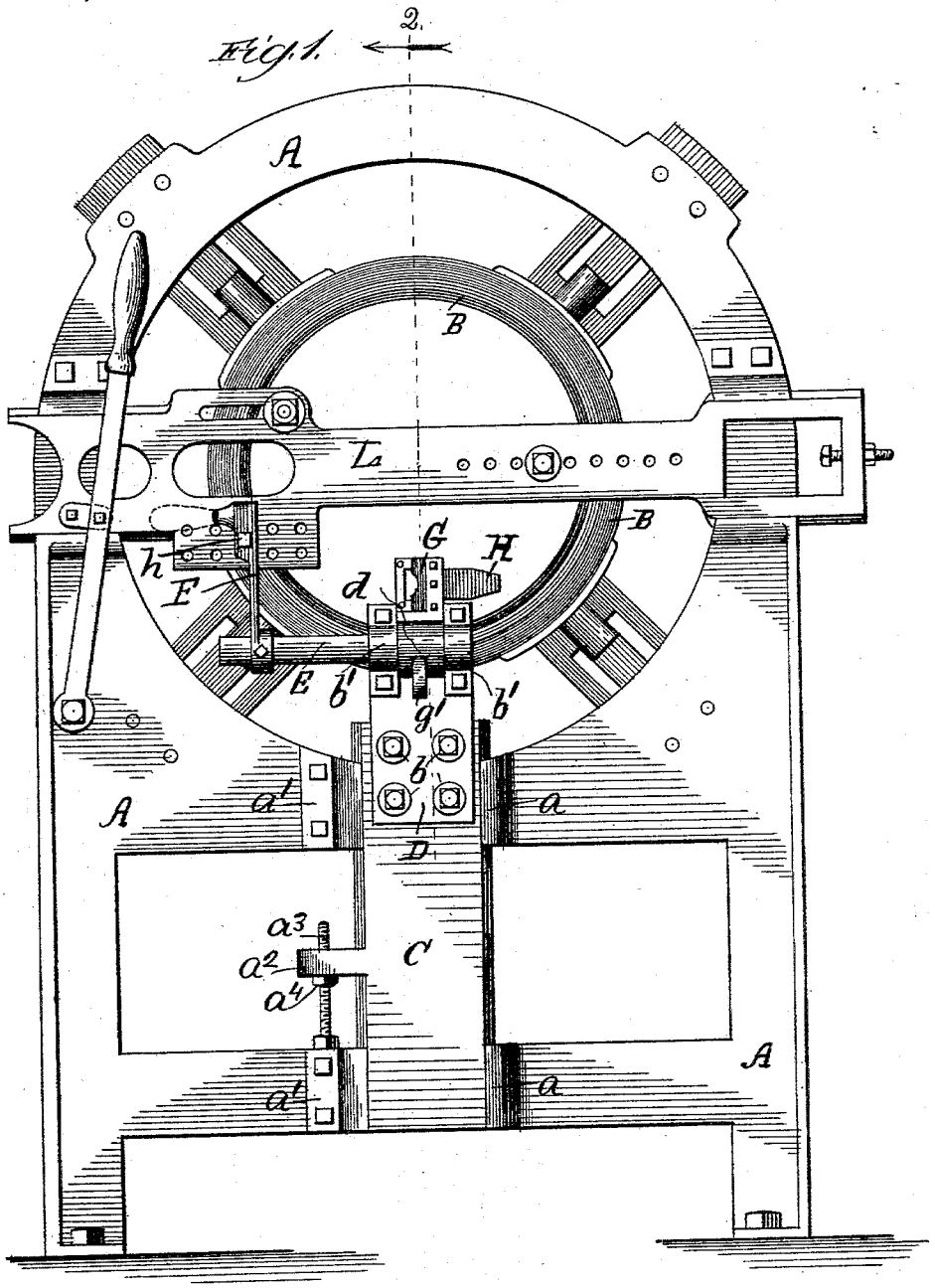
(No Model.) 2 Sheets—Sheet 1.

J. A. SEAMAN.

CROZING AND HOWELING MACHINE.

No. 490,315. Patented Jan. 24, 1893.

Fig. 1.



Witnesses:
Chas. E. Gaylord.
Clifford W. White.

Inventor:
J. A. Seaman.
By L. B. Coupland & Co
Attys.

(No Model.) 2 Sheets—Sheet 2.

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Fig. 2.

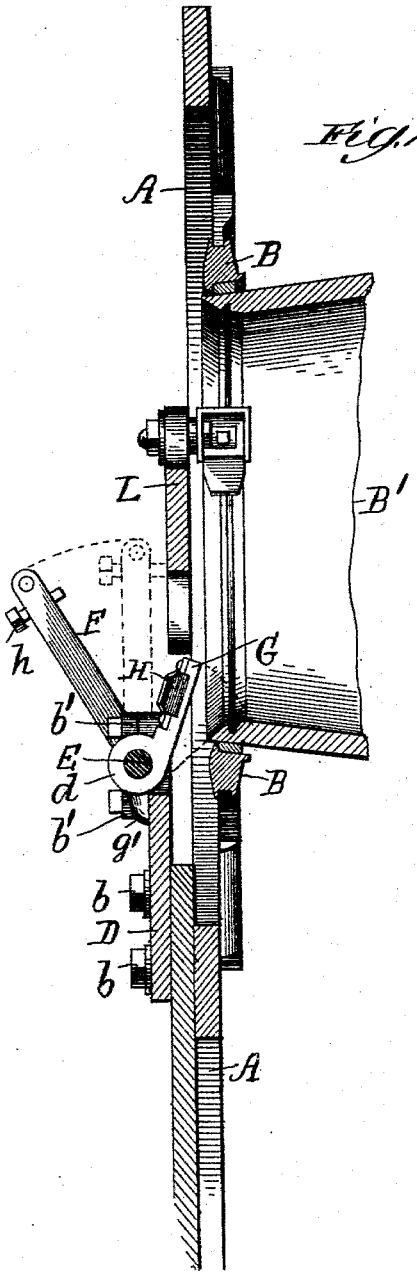
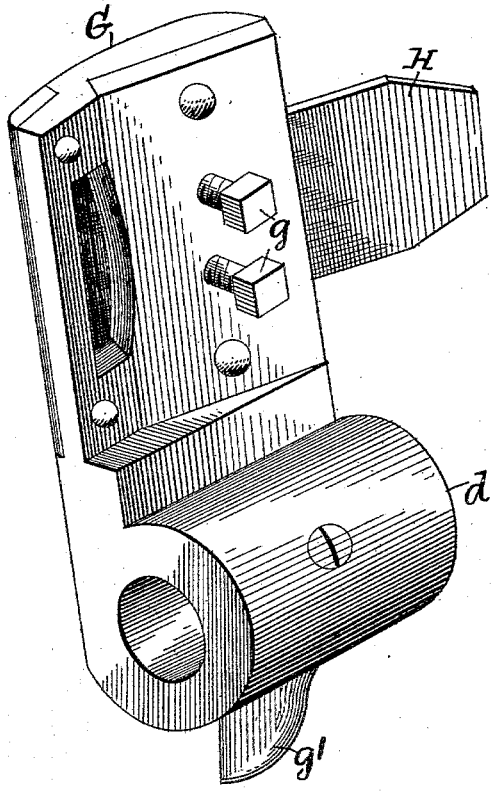


Fig. 3.



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UNITED STATES PATENT OFFICE.

JOHN A. SEAMAN, OF CHICAGO, ILLINOIS.

CROZING AND HOWELING MACHINE.

SPECIFICATION forming part of Letters Patent No. 490,315, dated January 24, 1893.

Application filed July 22, 1891. Serial No. 400,312. (No model.)

To all whom it may concern:

Be it known that I, JOHN A. SEAMAN, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Crozing and Howeling Machines, of which the following is a full, clear, and exact description, that will enable others to make and use the same, reference being had to the accompanying drawings, forming a part of this specification, in which—

Figure 1 is an end elevation. Fig. 2 a broken-away longitudinal section on line 2, Fig. 1; and Fig. 3 a view in perspective of the cutter or tool-holder.

This invention relates more especially to improvements for which a patent was granted me the 14th, day of April, 1877, No. 189,878.

The object of this invention is to provide an improved tool-holding device or attachment to be used in connection with that class of machines set forth in the patent herein referred to, and machines of a similar character.

This invention consists in an adjustable arrangement for holding the cutter used in leveling, jointing and chamfering the ends of the staves in working off, as will be hereinafter set forth.

Referring to the drawings, A is the supporting-frame, B a ring mounted in the front end thereof, which receives and supports the end of the barrel or keg B′ to be operated upon.

The slide, C, is retained in place, with reference to the frame, by means of the guides *a a*, formed thereon, and the removable guides *a′ a′*, bolted thereto, as shown in Fig. 1. The slide, C, is provided on one side with the lug a^2, through an unscrew-threaded orifice in which is inserted the screw-threaded bolt a^3. The lower headed-end of this bolt rests on a part of the frame, as shown. The nut a^4 is mounted on the bolt a^3 and bears against the under-side of the lug a^2. By this arrangement, the slide C is adapted to have a vertical adjustment so as to bring the cutter-holder in proper position, and in accordance with the diameter of the barrel or keg being worked.

A plate, D, is secured to the upper part of the slide C by a number of tap-bolts *b*. The bearing-boxes *b′ b′* are bolted to the upper end of this plate. The rock-shaft E is journaled in these boxes. The hand-crank F is mounted on the projecting end of said shaft. The cutter or tool-holder G, (Fig. 3.) is provided, on the lower end with the sleeve *d* and mounted on the rock-shaft E.

A cutter, H, is seated in the upper end of the holder and removably retained therein by the set-screws *g*. This cutter is set at an oblique angle with reference to the axis on which the work is rotated, so as to level or trim off the ends of the staves, either square or at any desired angle, when brought in contact with the same.

A stop or lug, *g′*, is formed on the sleeve-part of the holder and comes in contact with the plate D and limits the outward movement of the rock-shaft and holder when the cutter is moved away from the work, and retains the hand-crank within easy reach of the operator. The bolt, *h*, inserted through the hand-crank, is adapted to have contact with the "bar L" or part of the machine, and limit the inward movement, and gage the depth of the cut. The dotted lines in Fig. 2 indicate the working position of the mechanism. By this arrangement the holder is retained in a positive position so that it is not possible for the cutter to lead or be drawn into the wood and destroy the work.

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

The combination with the barrel retaining frame, of a slide vertically adjustable with respect thereto, the retaining guides, the plate bolted to the upper part of said slide, the rock shaft journaled in said plate, the holder mounted on said shaft, and the cutter seated in said holder, substantially as described.

JOHN A. SEAMAN.

Witnesses:
S. COUPLAND,
J. P. DONALSON.