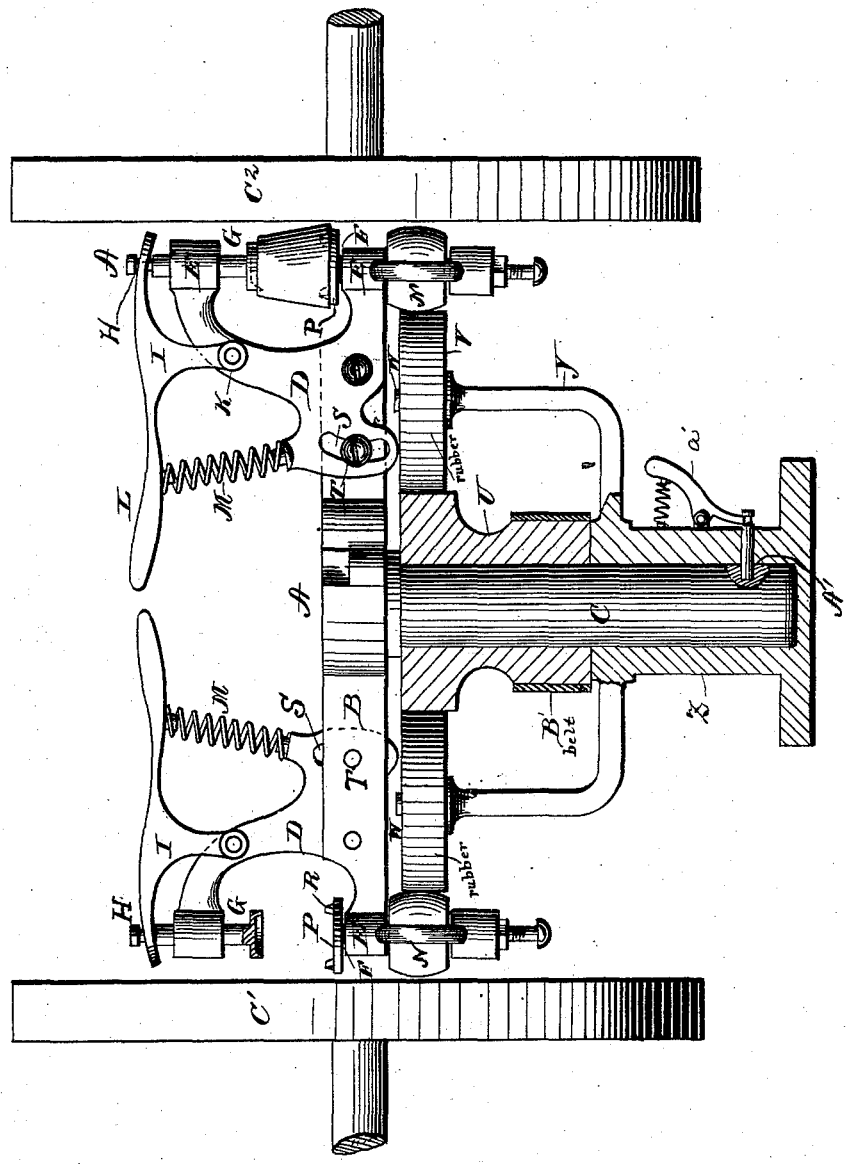
(No Model.)

F. LATTA.

Machine for Grinding Corks.

No. 231,591. Patented Aug. 24, 1880.



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UNITED STATES PATENT OFFICE.

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MACHINE FOR GRINDING CORKS.

SPECIFICATION forming part of Letters Patent No. 231,591, dated August 24, 1880.

Application filed June 14, 1880. (Model.)

To all whom it may concern:

Be it known that I, FINLEY LATTA, of Cincinnati, in the county of Hamilton, and in the State of Ohio, have invented certain new and useful Improvements in Machines for Grinding Corks; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing, and to the letters of reference marked thereon, making a part of this specification.

This invention relates to certain improvements in apparatus for shaping and finishing corks for bottle-stoppers and other purposes; and it has for its object to provide a means by which a number of corks may be subjected to the shaping and finishing operation at the same time while fresh corks are being fitted to the apparatus for subsequent shaping and finishing, and to enable two attendants to operate the apparatus together, when desired, and thereby double the work accomplished, as more fully hereinafter set forth. These objects I accomplish by the apparatus illustrated in the accompanying drawing, which represents a side elevation of my improved apparatus.

The letter A indicates a metallic support, provided with a series of two or more radial arms, B, and a central shaft, C, extending downwardly from its under side. To each of said arms, near the extremity, is pivoted a curved lever, D, having bearings E, in which are journaled the spindles F and G, the upper spindle being capable of a longitudinal movement in its bearing and provided at its upper end with an annular groove, H, into which fit the bifurcated ends of a lever, I, fulcrumed at K to the lever D, and provided with a handle, L, against which bears a spiral spring, M, which holds the lever and spindle in a normal position, so as to press the chuck-head of the spindle against the cork, and returns them to the same after being shifted.

The lower spindle is provided with a friction-pulley, N, by which it receives rotation through the medium of suitable mechanism, as more fully hereinafter explained.

The lower spindle is provided with a chuck-head, P, provided with a series of projections, R, which take into the cork in order to rotate it; and the upper spindle is provided with a concave chuck-head for bearing against the upper end of the cork and holding it to the face of the lower chuck-head.

The lever D is provided with a curved slot, S, through which passes a clamping-screw, T, secured in the supporting-arm, by means of which the position of said lever may be adjusted.

The letter U indicates a loose pulley mounted on the shaft C and bearing against the friction-pulleys V, which are constructed of rubber, and are mounted upon spindles W on the arms Y, which are secured to the tool-holder Z, which is mounted on the slide-rest of an ordinary lathe. The said pulleys V also bear against the pulleys N of the spindles of the respective cork-carriers.

The shaft C fits in the socket in the tool-holder Z, and is recessed at its periphery, as indicated by the letter A′, the tool-holder being provided with a spring-detent, *a′*, adapted to set into said recesses and hold the device in proper position, as more fully hereinafter set forth.

The operation of my improved apparatus is as follows: The loose pulley is connected by means of a belt, B, with any suitable driving-pulley. The said pulley is rotated by this means, imparting motion, through the intermediate pulleys, to the pulleys N and their respective spindles, carrying the corks, which are held between the two chuck-heads of the respective cork carriers or levers D. To the lathe-centers are secured the emery-wheels C′ C^2, one of which rotates, and the other of which remains stationary, the wheels being so located as to bear close up against the peripheries of the corks. The proper bevel is given the corks by inclining the levers D and clamping them in position by the clamping-screws.

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

1. In combination with the support having a series of radial arms, the bent levers provided with spindles and chucks for holding the corks, and mechanism for rotating the corks against the face of an emery-wheel, substantially as specified.

2. In combination with the arms of the sup-

port, the levers and mechanism for adjusting the same so as to present the corks confined between the chucks at any desired angle to the face of the grinding-wheels, substantially as specified.

3. In combination with the upper spindle, the lever and spring for elevating and depressing said spindle and throwing the upper chuck-head into or out of contact with the cork, substantially as specified.

4. In combination with the lower spindles and their pulleys, the loose pulley mounted on the shaft of the support, and the intermediate pulleys arranged to operate substantially as specified.

In testimony that I claim the foregoing I have hereunto set my hand this 28th day of May, 1880.

FINLEY LATTA.

Witnesses:

ALBERT PADDACK,

L. H. PUMMILL.