

(No Model.)

J. V. BOHANNAN.
ICE SHAVING MACHINE.

No. 571,609.

Patented Nov. 17, 1896.

Fig. 1.

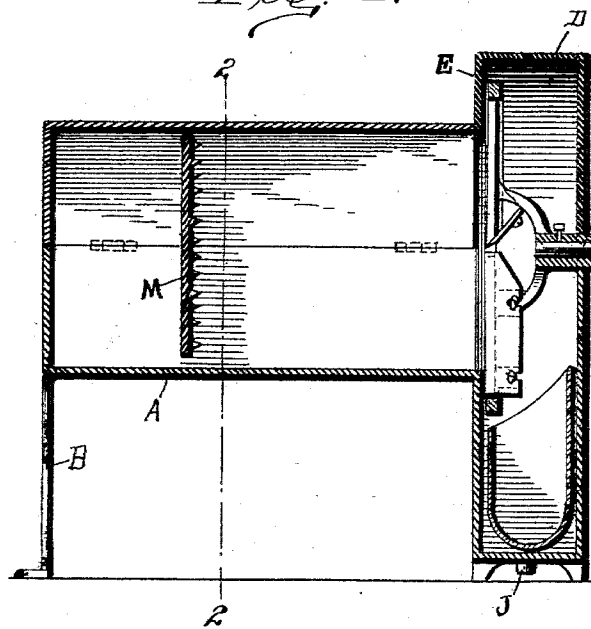


Fig. 2.

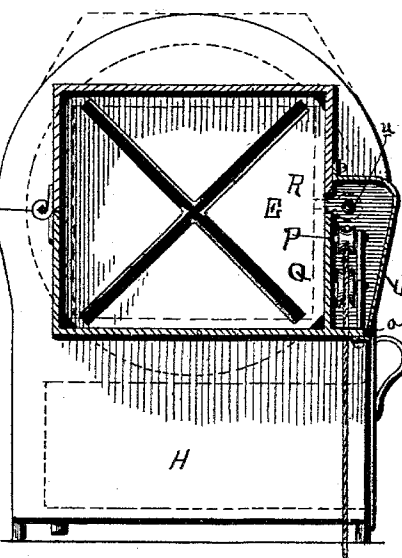


Fig. 3.

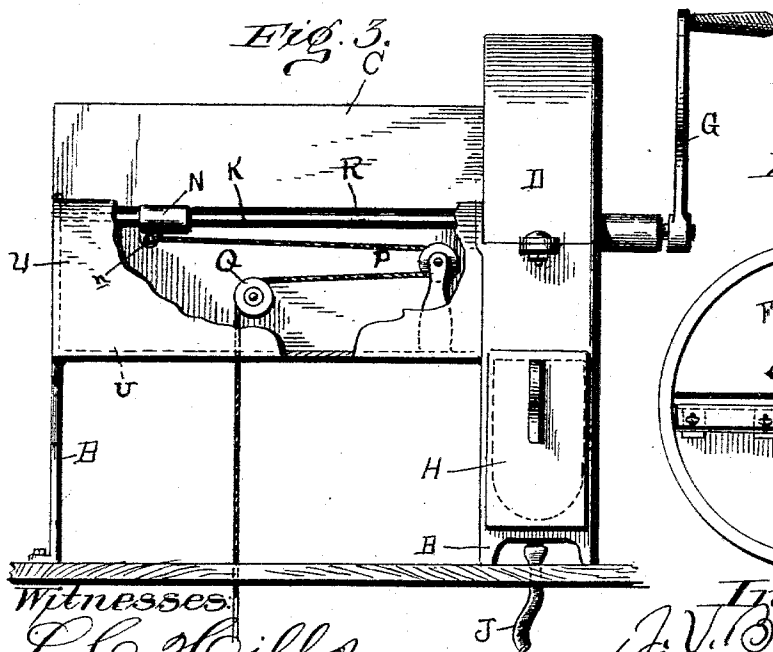
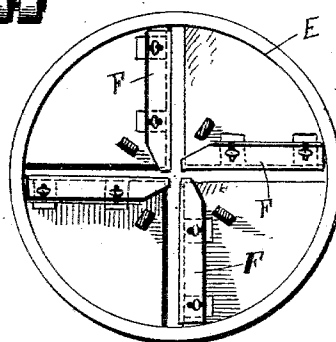


Fig. 4.



Witnesses:
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UNITED STATES PATENT OFFICE.

JENETTA VALENTINE BOHANNAN, OF BALTIMORE, MARYLAND, ASSIGNOR
OF ONE-FOURTH TO JOHN T. JONES, OF SAME PLACE.

ICE-SHAVING MACHINE.

SPECIFICATION forming part of Letters Patent No. 571,609, dated November 17, 1896.

Application filed April 21, 1896. Serial No. 588,499. (No model.)

To all whom it may concern:

Be it known that I, JENETTA VALENTINE BOHANNAN, a citizen of the United States, residing at Baltimore, in the State of Maryland, have invented certain new and useful Improvements in Ice-Shaving Machines; and I do 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 appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

This invention relates to certain new and useful improvements in ice-scrapers, and especially to a machine designed for cutting ice shavings for making snow balls, &c.; and the aim of my invention is to generally improve upon the rotary ice-cutters which are commonly in use by simplifying and rendering this class of machines more efficient.

A further part of this invention relates to the provision of a novel feeding mechanism, whereby the cake of ice may be conveniently fed against a rotary disk having cutting-knives, the feeding mechanism being adapted to be fed by foot-power.

To prevent air entering the ice-box through the aperture through which the arm of the feeding mechanism or plunger works, I provide a suitable casing which, while serving to exclude the air, also protects the arrangement of pulleys over which a rope passes, and which is connected at one end to the arm of the plunger and its other end to the tread or foot-power attachment.

To these ends and to such others as the invention may pertain the same consists, further, in the novel construction, combination, and adaptation of the parts, as will be hereinafter more fully described and then specifically claimed.

I clearly illustrate my invention in the accompanying drawings, which, with the letters of reference marked thereon, form a part of this specification, and in which drawings similar letters of reference indicate like parts throughout the several views, in which—

Figure 1 is a central vertical longitudinal section through the machine. Fig. 2 is a section on line 2 2 of Fig. 1. Fig. 3 is a side

elevation of the machine, a part being broken away to show the arrangement of the pulleys and rope attached to the feeding mechanism. Fig. 4 is an enlarged detail view of the cutting-disk.

Reference now being had to the details of drawings by letter, A designates the ice-box, made of galvanized iron or any other suitable metal or material, and is supported on legs B. This box has a hinged cover C, and at one end of the box is an inclosure D, within which is journaled a stub-shaft *d*, carrying a disk E, having the cutting-knives F secured thereto. This stub-shaft is rotated by means of a crank G. Beneath the said disk is a space in which slides the removable scoop or drawer H, which is provided with a suitable handle. A discharge-pipe J leads away from the bottom of the said inclosure to take away the water caused from the melted ice.

Mounted on the longitudinal rod K, passing alongside of the machine, is the plunger M, loosely held on the said rod by means of the arm N. Journaled to the side of the ice-box are the pulleys O and P, and S is a rope having one end secured to an eye *n* on the arm N. The rope is then passed over pulleys P and O, and its end extending down within a convenient reach of the ground, where a foot-tread may be attached.

In order to allow provision for the movement of the arm N, connected to the plunger M, a space R is formed by cutting away the free edge of the cover on its longitudinal side, in which space the said arm is allowed to freely travel. With a space of this size ordinarily a considerable quantity of air could easily enter which would hasten the melting of the ice, and to guard against this I have provided a covering U, one end of which is secured to a projecting portion of the ice-box at *a*, while its other broad edge is brought up and curved inwardly and is secured to the side of the box, as will be readily seen in Fig. 2 of the drawings. By the provision of this covering not only is the outside atmosphere excluded from the ice-box, but a protection is afforded for the pulleys and rope connected to the arm of the follower.

The operation of the device is simple. The cake of ice is placed in the ice-box, the disk caused to revolve, and the operator, resting

his foot on the foot-tread, causes the cake of ice to be forced against the cutting-knives of the disk, and the shavings fall into the scoop or drawer located thereunder.

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

10 In an ice-shaving machine, the combination with the receptacle having a hinged cover with its free longitudinal edge recessed, of the arm N having a collar slidingly held on a horizontal rod, said arm designed to work in the recess of the cover and to rest on the edge of the box or receptacle and means for

operating same, of the covering U secured to 15 the side and a projecting portion *a* of the bottom of the said receptacle, adapted to inclose the said recess and the arm working therein, whereby outside air is prevented from entering the receptacle, substantially as shown 20 and described.

In testimony whereof I affix my signature in presence of two witnesses.

JENETTA VALENTINE BOHANNAN.

Witnesses:

ALBERT JONES,
J. H. SPARHAWK.