(No Model.)

C. C. CLAWSON.

MACHINE FOR SHAVING ICE.

No. 387,861. Patented Aug. 14, 1888.

FIG. I.

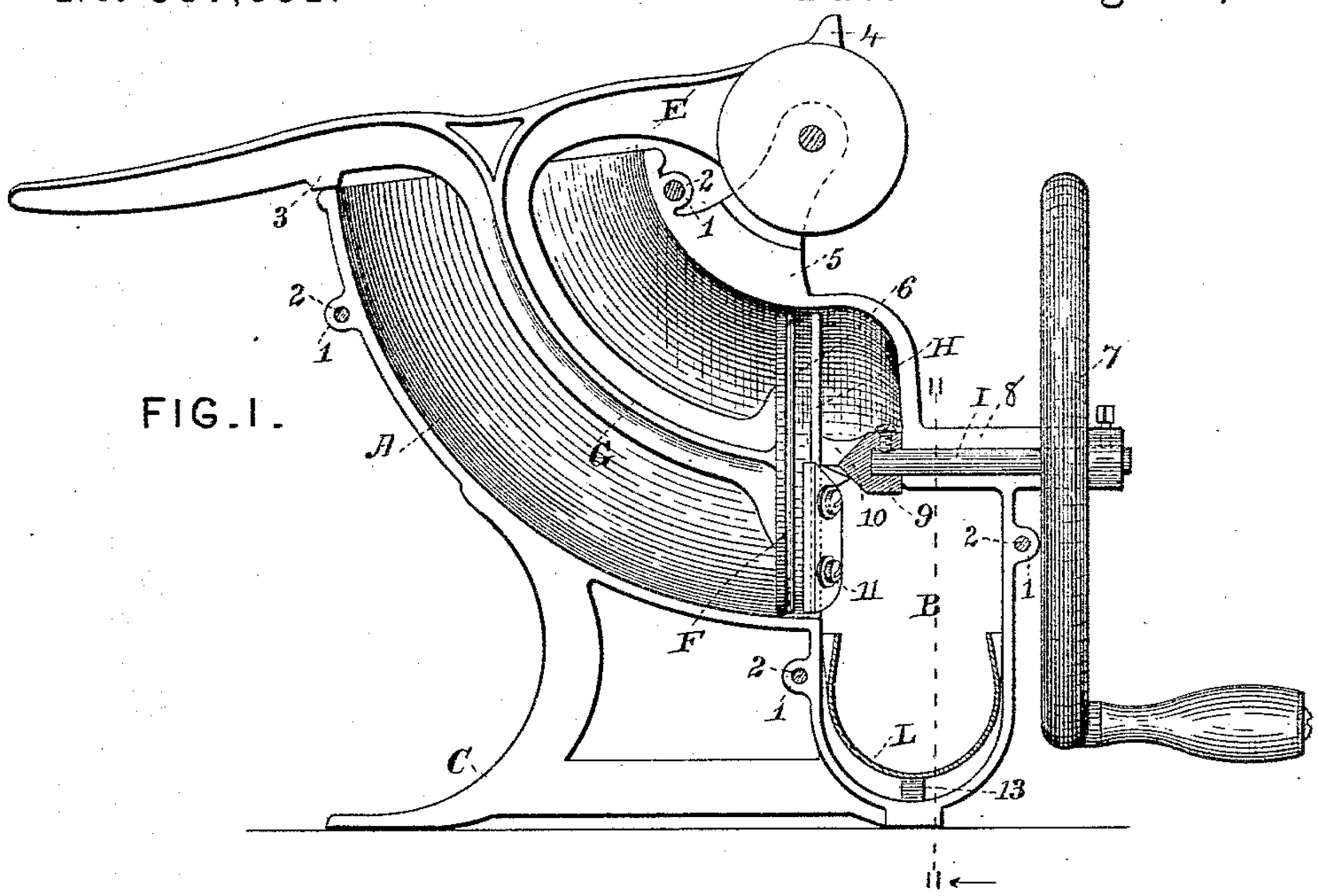


FIG. II.

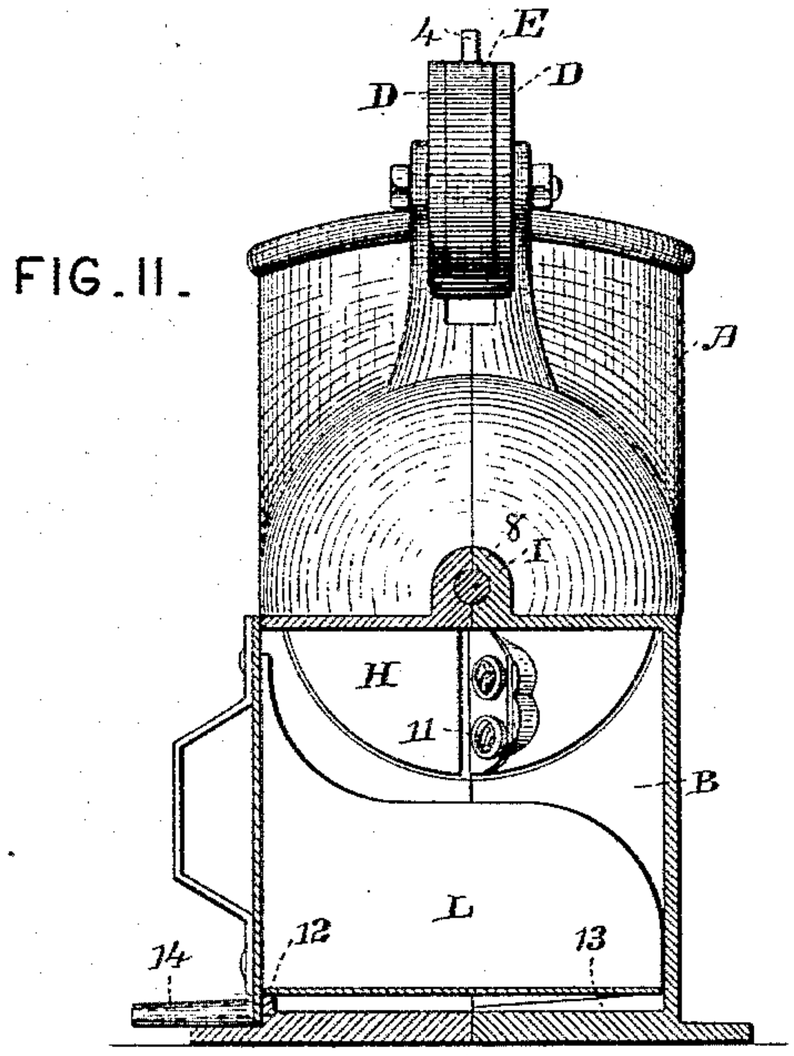
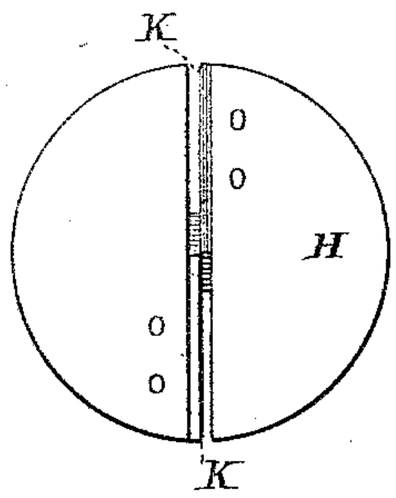


FIG. III.



Attest.

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UNITED STATES PATENT OFFICE.

CLEMENT COLERIDGE CLAWSON, OF NEWARK, NEW JERSEY, ASSIGNOR, BY DIRECT AND MESNE ASSIGNMENTS, TO THE UNITED STATES MACHINE AND INVENTIONS COMPANY, OF NEW YORK CITY.

MACHINE FOR SHAVING ICE.

SPECIFICATION forming part of Letters Patent No. 387,861, dated August 14, 1888.

Application filed October 23, 1886. Serial No. 217,026. (No model.)

To all whom it may concern:

Be it known that I, CLEMENT COLERIDGE CLAWSON, a citizen of the United States, residing at Newark, in the county of Essex and State of New Jersey, have invented certain new and useful Improvements in Machines for Shaving Ice, of which the following specification is a full, clear, and exact description.

This invention relates to that kind of ice-shaving machines which have a rotary disk armed with knives, against which the block or blocks of ice to be reduced is or are pressed.

In the accompanying drawings, which form part of this specification, Figure I is a vertical longitudinal section of an ice-shaving machine constructed in accordance with the invention; Fig. II, a cross-section on line II of Fig. I, looking in the direction of the arrow; and Fig. III, a face view of the knife-disk.

The holder A, in the form of a curved section of pipe, the chamber B, arranged at the end of the holder below and transversely to the axis of the same, and the foot C under the holder A are cast together in two longitudinal halves or castings, which are fastened together by ears 1 and screws 2.

On the holder A are the two guide-plates D, between which the lever E is pivoted. This lever has an enlargement at the inner end, of the same size as the plates D, and it is provided with the stops 3 and 4, which limit its motion, the former by contact with the rim of the holder A, the latter by contact with the uprights 5, which carry said plates. One of the plates D and its upright 5 are cast on each half of the ice-holder A.

The follower F is attached to the lever E through the curved arm G, both the follower and curved arm being cast in one piece with said lever. On the face of the follower F is a rib, 6, which aids in preventing the ice from being carried round in the holder A.

The knife-disk H is mounted on the inner end of the horizontal shaft I, which is turned by the crank-wheel 7 and rotates in bearings S, cast on the top of the chamber B. The disk has a hub, 9, and is slotted and grooved diametrically from circumference to circumference, the hub being cut away adjacent to the slot, as shown at 10. The knives K are set in said slot, their edges being turned in opposite directions and the length of each being equal to the full radius of the disk. They are held in place by screws 11, passing through slots in the knives and tapped into the metal of the disk H. The chamber B is open at one end for the introduction of the receiver L. This receiver, like a scoop, has no rim at the end opposite the handle; but this is simply to enable the shaved ice to be emptied out more readily. When inserted, its front plate closes the opening in the end of the chamber B, and the reservoir rests upon the rim 12 at the front of the chamber and the inclined rib 13 at the back of the same, so that it is clear of the bottom of the chamber. The rib is made inclined in order that it may not arrest the receiver if in inserting the same the rear edge should strike said rib. At the front of the chamber B is the drainage-outlet 14, with which in use a tube would ordinarily be connected.

In operation the holder A is filled to the desired extent with ice in one or more blocks or lumps, the lever E being turned back as far as the stop 4 will permit. The lever is then turned over, the plates D keeping it in the same plane until the follower F presses upon the ice. The wheel 7 is turned by the user with one hand, while with the other applied to the lever E he forces the lump or block ice in the holder against the disk H. The knives K continually remove the ice in shavings, which pass through the slots in the disk H and fall into the receiver L. When this has received a sufficient supply of shaved ice, it is removed and emptied. Any water which may be formed by the melting of ice in the holder A flows down the adjacent wall of the chamber B and under the receiver L and escapes by the drainage-outlet 14.

It is evident that modifications can be made in details without departing from the spirit of the invention and that parts of the invention can be used separately.

I claim as my invention or discovery—

1. The stationary frame or body of the machine, composed of, first, the tubular curved ice-holder; second, the chamber fixed to and forming a continuation of the said ice-holder

and arranged beyond the lower end thereof transversely thereto, in part above and in part below the lower edge of the said ice-holder, and, third, the foot fixed to the said ice-holder and arranged under the same at the side of the lower part of the said chamber, in combination with the removable shaved-ice receiver in the lower part of the said chamber, the vertical knife-disk between the said chamber and the said ice-holder, the follower in the said ice-holder, and the specified means for moving the said knife-disk and the said follower, substantially as described.

2. In an ice shaving machine, and in combination with the stationary ice-holder, the rotary knife-disk, and the movable follower, the stationary chamber arranged partly below and partly above the lower edge of the said ice-holder beyond its lower end and fixed to the said ice-holder, and the removable shaved-ice receiver set horizontally in said chamber, the chamber being provided with an opening in one of its upright walls for the insertion of the said receiver, with supports for upholding the same above the bottom of the said chamber, and with a drainage-outlet, and the said receiver being provided with a front plate which closes the said opening when the receiver is inserted in said chamber, substantially as described.

3. The combination, with the ice-holder, the follower, and the knife-disk, of the chamber provided with an opening in one of its upright walls and arranged at the lower end of the ice-holder on the opposite side of the knife-disk from the said follower, and the scoop-shaped receiver in said chamber, this chamber being provided with supports for the curved bottom of said receiver, which is nearly of equal width with said chamber, so as to be kept upright by the sides of the same, and whose front plate closes the said opening in the upright wall thereof, substantially as described.

4. The combination, with the rotary disk armed with knives, of the ice-holder in the form of a section of curved pipe, the follower, the lever, and the curved arm between the follower and the lever, substantially as described.

5. The combination, in an ice-shaving machine, with the cutting mechanism, of a curved conduit adapted to receive the ice and direct the same to the cutters, which stand in a plane substantially at right angles to the mouth of the said conduit, as set forth.

In testimony whereof I have signed this specification in the presence of two witnesses.

CLEMENT COLERIDGE CLAWSON.

Witnesses:
GEO. W. WILKINS,
E. A. MEAD.