

No. 672,418.

Patented Apr. 16, 1901.

W. A. HARVEY.  
ICE SHAVING MACHINE.

(Application filed Nov. 19, 1900.)

(No Model.)

Fig. 1.

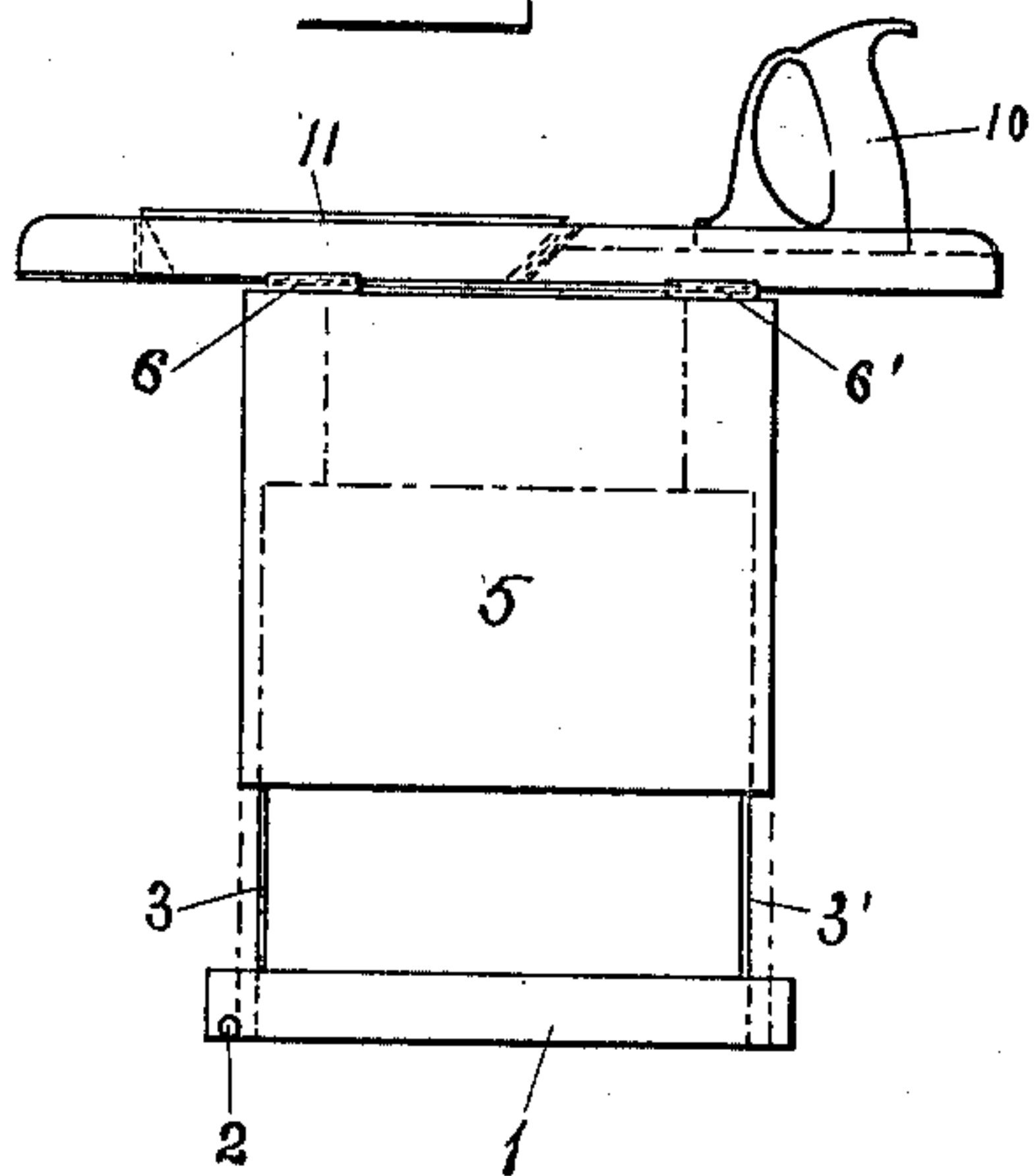


Fig. 2.

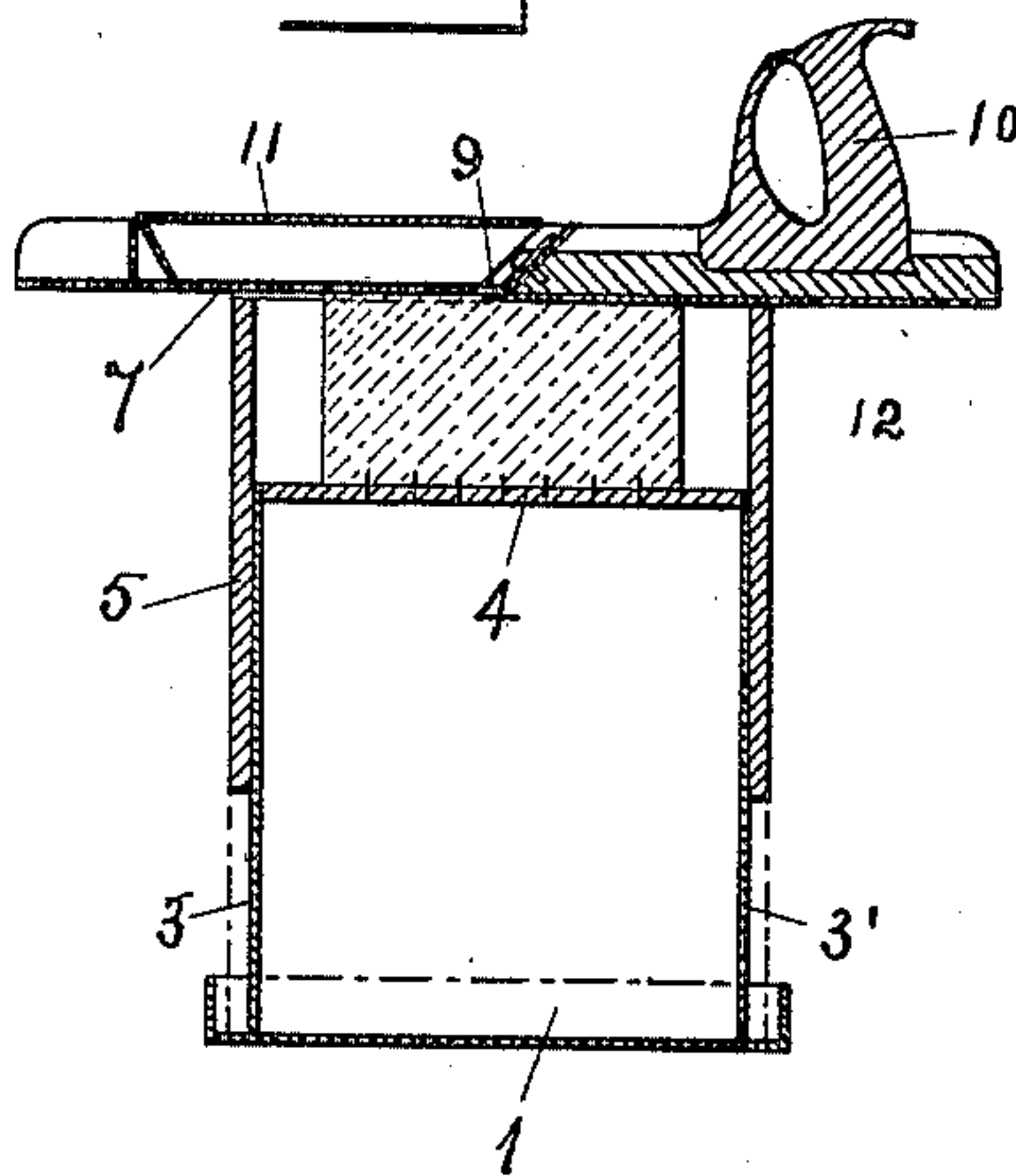


Fig. 3.

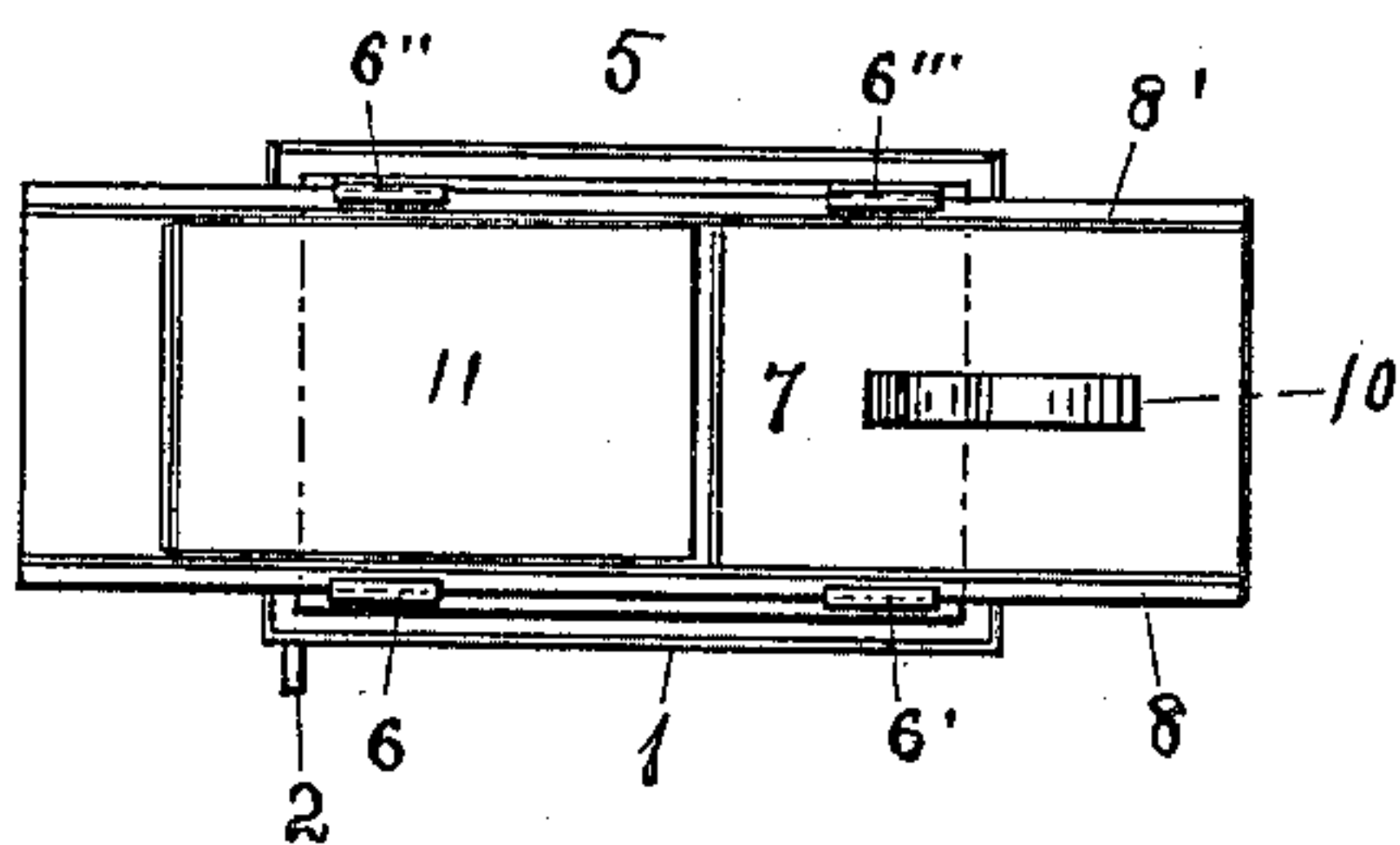


Fig. 4.

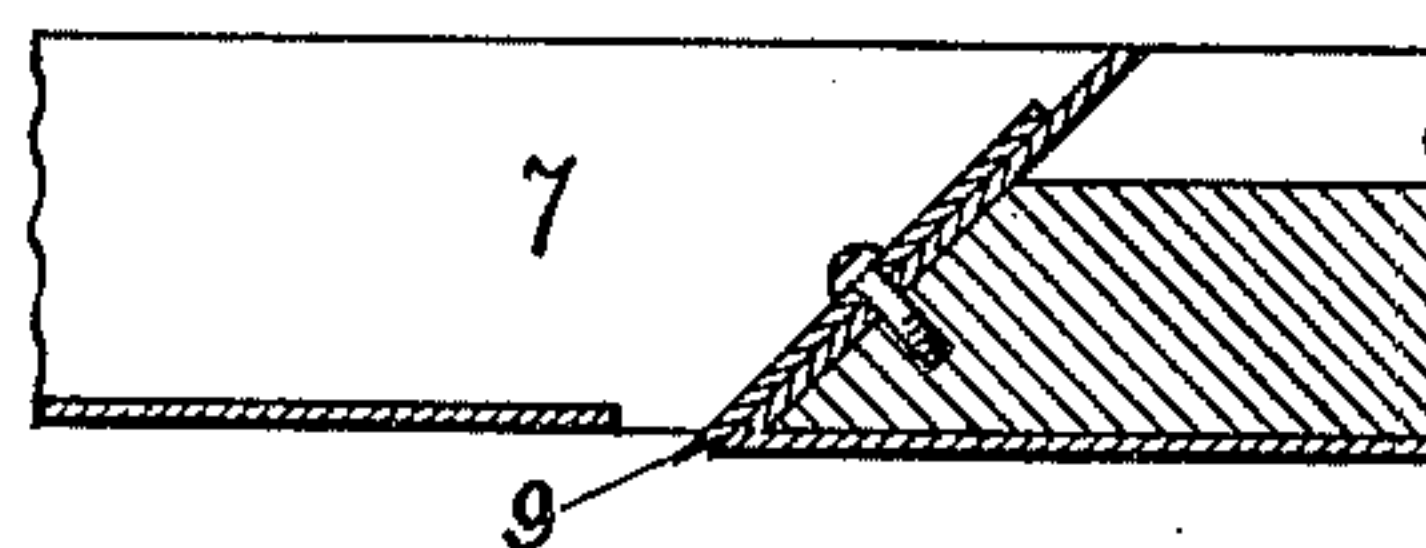
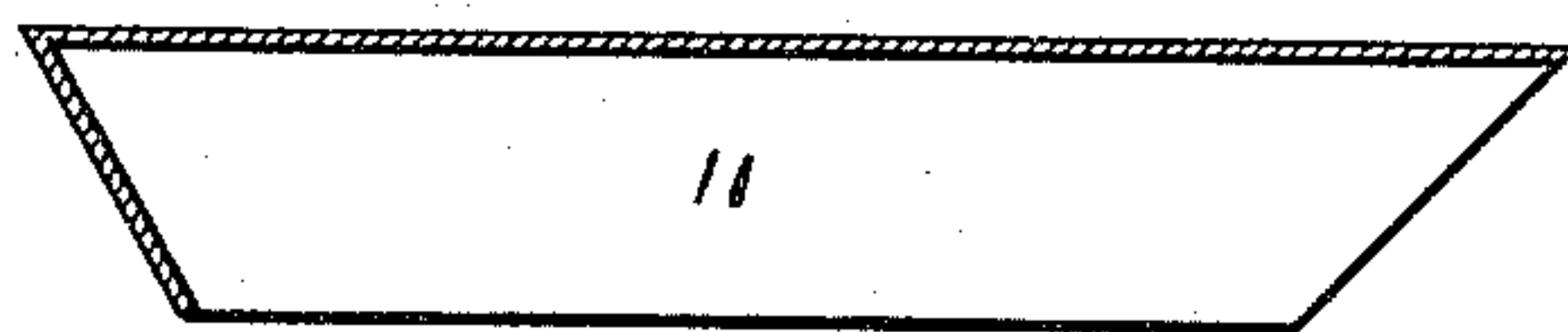


Fig. 5.



Witnesses  
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# UNITED STATES PATENT OFFICE.

WILLIAM AUGUSTUS HARVEY, OF BLOCTON, ALABAMA.

## ICE-SHAVING MACHINE.

SPECIFICATION forming part of Letters Patent No. 672,418, dated April 16, 1901.

Application filed November 19, 1900. Serial No. 36,942. (No model.)

*To all whom it may concern:*

Be it known that I, WILLIAM AUGUSTUS HARVEY, a citizen of the United States, residing at Blocton, in the county of Bibb and State of Alabama, have invented certain new and useful Improvements in Ice-Shaving Machines, of which the following is a specification.

My invention relates to improvements in ice-shaving machines in which a cutter attached to a plane and operated by hand shaves the ice from the top of a block of ice inclosed therein; and the objects of my improvement are, first, to provide a device to shave ice for soda-fountains and other like purposes of a simple and cheap design with few and durable parts not likely to get out of order; second, to provide a device to hold a block of ice while the same is being shaved by a plane mounted on an automatically downwardly moving platform adapted to keep the cutter in contact with the ice as shaved, and, third, to provide a plane mounted in slides attached to the head of a platform adapted to engage a receptacle for holding a block of ice, the platform adapted to automatically slide downward as the ice is shaved. I attain these objects by the mechanism illustrated in the accompanying drawings, in which—

Figure 1 is a side view of the entire device. Fig. 2 is a sectional view of the same through the center. Fig. 3 is a top view of the device. Fig. 4 is an enlarged detail sectional view of the ice-plane, and Fig. 5 is an enlarged detail sectional view of the scoop, both sections through the center.

Similar numerals refer to similar parts throughout the several views.

The base or stand 1 is made of any desired or suitable metallic material. A rim projects upward around the edges of the bottom to form a pan to catch the drip from the ice, a spout or drip-pipe 2 being provided therein to allow the water to escape therefrom. Two uprights 3 3' are provided attached to the base, the heads thereof being connected by a shelf or platform 4, attached thereto. The platform is adapted to carry or support a block of ice thereon while the same is being shaved, as hereinafter described.

The inclosing casing 5 is made of any suitable metallic material in the form of a box,

having the top and bottom ends open. The casing is adapted to inclose the uprights 3 3' and to automatically slide downward thereon. On the upper edge of two sides of the said casing 5 a series of slides 6 6' 6'' 6''' are formed and attached thereto, the slides having grooves formed therein adapted to mount the plane and allow the same to slide therein, as hereinafter described.

The ice-plane 7 is made of any suitable material. Two flanges 8 8' are formed on the opposite edges thereof. The flanges are adapted to enter the grooves formed in the series of slides 6 6' 6'' 6''', formed on the upper edges of the casing 5 and attached thereto. The plane is adapted to slide freely in the said slides and to have a reciprocating movement therein when operated by the hand. The metallic cutter 9 is attached to the ice-plane in the usual manner. The cutter is set on an angle to the bottom face of the plane, and it is ground or formed sharp on the lower edge to shave the ice. The bottom face of the plane 7 behind the cutter is formed lower than in the front thereof, which is clearly shown in the detail in Fig. 4. The edge of the cutter is set even with the back or lower face of the plane. The offset to the upper or front face of the plane regulates the thickness of the cut of ice shaved at each stroke of the plane. The plane is provided with the usual form of handle 10, the handle being used to operate or reciprocate the same by hand.

The ice-scoop 11 is made of metallic material. It is adapted to be turned bottom upward, as shown, on the plane in front of the cutter. The scoop, as shown, incloses the opening in front of the cutter and catches the ice as thrown upward therefrom by the motion of the plane and holds the same confined between the plane and the scoop.

To operate the device, a block of ice 12 is placed on the shelf or platform 4. The casing 5, carrying the plane 7, is then placed over the uprights extending from the base, the casing sliding down on the outsides of the uprights 3 3' until the plane rests on the ice. The plane being reciprocated by hand shaves the ice from the top of the block and deposits the same in the plane inclosed by the scoop. When sufficient ice is planed, the scoop is removed and the same turned or re-



versed in the hand. It is then used as a scoop to remove the shaved ice from the plane.

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

In an ice-shaving device, a supporting-platform for a block of ice, in combination with a casing, sliding down outside of the same to inclose the space below it and a plane recip-  
10 rocating along the top of the said block and descending with the casing in order that it may always be in contact therewith, while the weight and muscular pressure of the opera-

tor's arm will be made available for insuring the closeness of such contact and the full ef- 15  
fect of every forward motion of the plane, without any need for additional devices to force the plane and ice together substantially as set forth.

In testimony whereof I have hereunto set 20  
my hand in presence of two subscribing witnesses.

WILLIAM AUGUSTUS HARVEY.

Witnesses:

F. A. MEACHAM,  
D. S. NAST.