

No. 709,139.

Patented Sept. 16, 1902.

G. S. COLLUM.
CANDY COOLER.

(Application filed May 19, 1902.)

(No Model.)

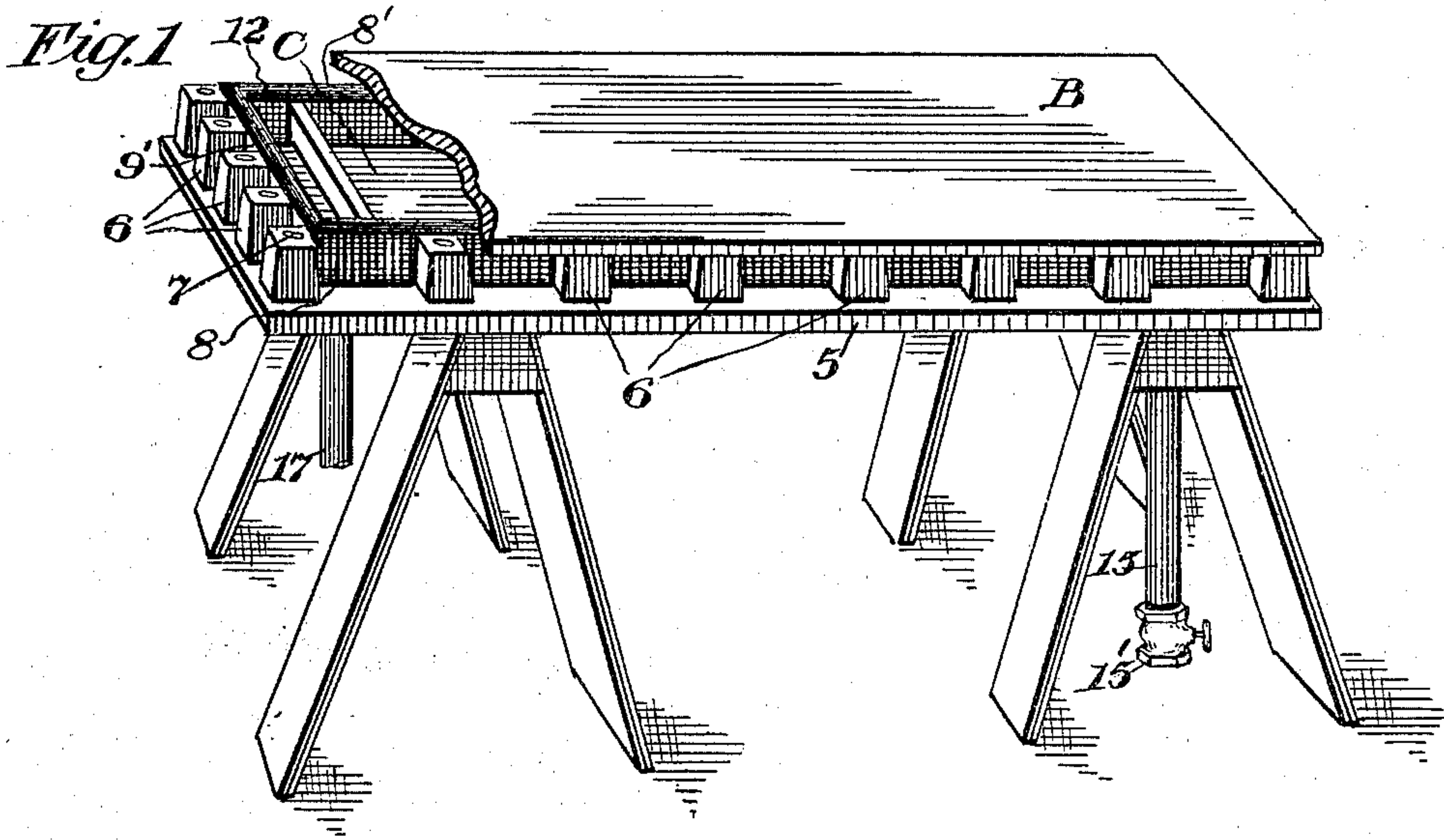


Fig. 2

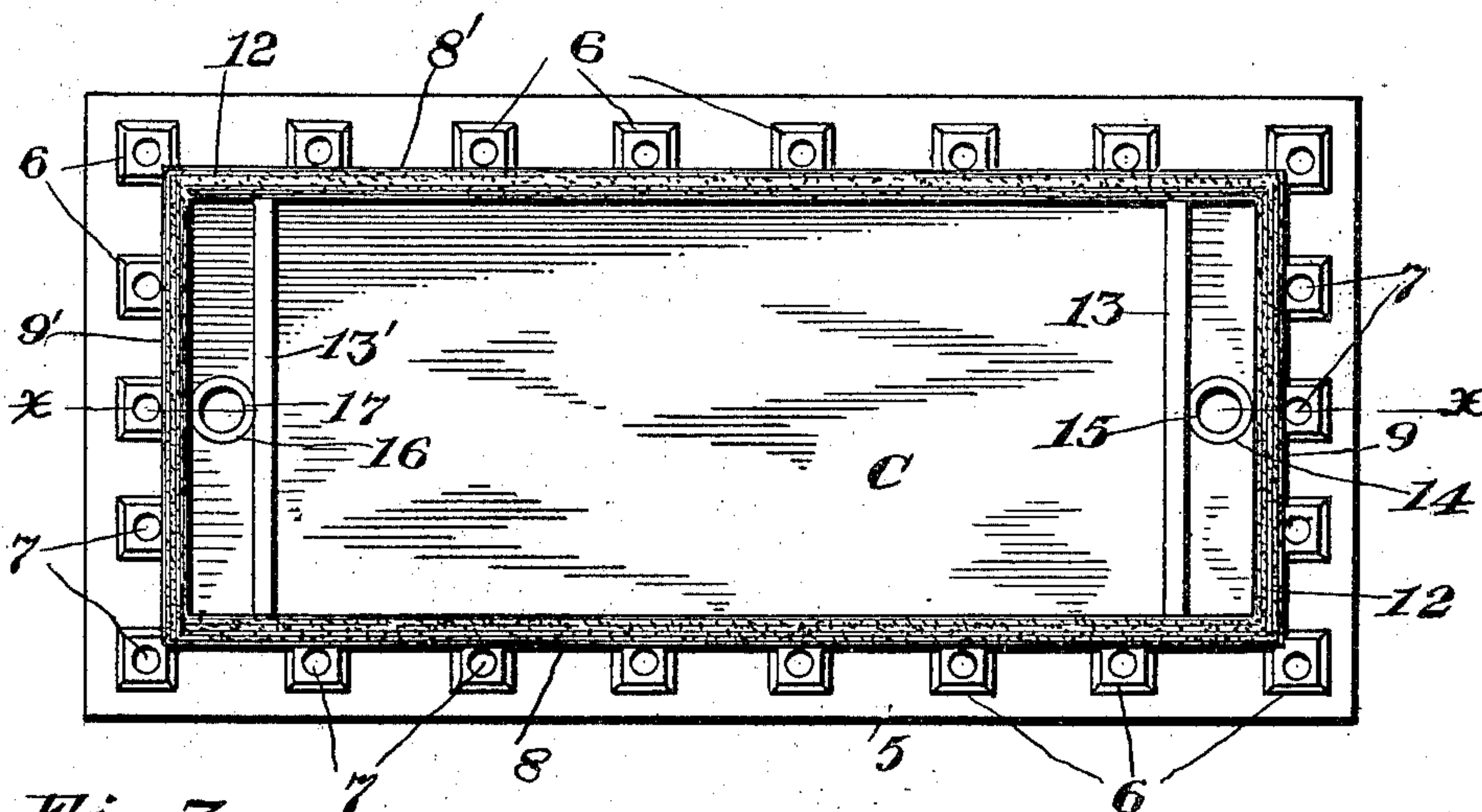
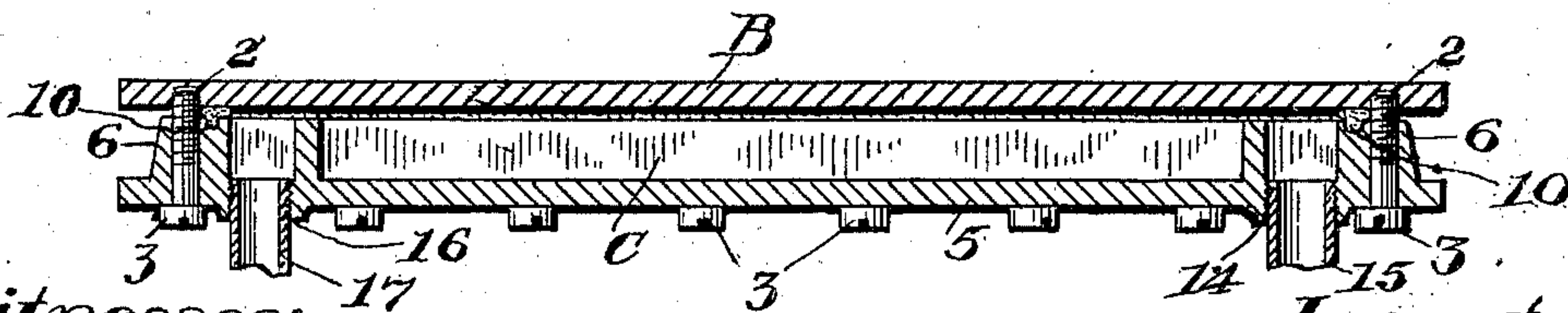


Fig. 3



Witnesses:

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UNITED STATES PATENT OFFICE.

GEORGE S. COLLUM, OF HARTFORD, CONNECTICUT.

CANDY-COOLER.

SPECIFICATION forming part of Letters Patent No. 709,139, dated September 16, 1902.

Application filed May 19, 1902. Serial No. 107,998. (No model.)

To all whom it may concern:

Be it known that I, GEORGE S. COLLUM, a citizen of the United States of America, and a resident of the city and county of Hartford and State of Connecticut, have invented certain new and useful Improvements in Candy-Coolers, of which the following is a specification.

This invention relates to a candy-cooler which is constructed so that water will act evenly upon and uniformly cool the plate upon which the candy is placed.

The object of the invention is to provide a candy-cooler of this nature with means for evenly distributing and varying the pressure of the water against the plate and with the plate arranged so that it may be easily removed and cleaned, then reset water-tight upon the bed.

Figure 1 of the accompanying drawings is a perspective view of the cooler with a portion of the plate broken away. Fig. 2 is a plan of the bed of the cooler, and Fig. 3 is a longitudinal section on the plane indicated by the dotted line *x x* on Fig. 2.

The bed C is preferably a single iron casting with a water-receptacle formed by low walls 8, 8', 9, and 9', which extend upwardly from the upper face of the bottom plate 5. In the upper edges of the side and end walls of the outer receptacle is a groove 10, adapted to receive a packing 12. Extending across the water-receptacle near each end wall is a dam 13 13', which is the same height as the adjacent parallel end wall. Through the bottom plate of the water-receptacle, between each end wall and adjacent dam, is a threaded opening 14 16, and into each of these is turned the threaded end of a pipe 15 17. The pipe 15 is utilized as the water-inlet and is provided with a cock 15', while the pipe 17 is utilized as the water-outlet. There are a number of rectangular abutments 6 formed at intervals on the top of the bottom plate of the bed adjacent to the side and end walls of the water-receptacle. These abutments are perforated for the passage of bolts.

The plate B, upon which the candy is placed for cooling, is preferably made from a piece of steel. The upper face of this plate is polished, and in the under face near the edges are screw-threaded sockets 2, adapted to reg-

ister with the holes through the abutments on the bed, so as to receive the bolts 3, which extend upwardly from the under side of the bed into the threaded sockets for securing the bed and plate together. When the bolts are screwed up, the packing between the upper edges of the walls of the water-receptacle and the bottom face of the plate is compressed and makes a water-tight joint.

The walls of the water-receptacle, by reason of the packing in the groove in their upper edges, are slightly higher than the dams, as shown in Fig. 3, so that the water which enters the inlet flows over the first dam into the main part of the water-receptacle and then over the second dam to the outlet through a narrow space, which is only as deep as the thickness of the packing between the edges of the walls of the receptacle and the under side of the plate. This requires the water to flow over the dams in thin sheets that impinge against the under side of the plate and have a large capacity to absorb heat from the plate. By tightening or loosening the bolts the compression of the packing can be varied and the area of the opening between the edges of the cross-walls and the under side of the plate be regulated so as to govern the amount of flow of water.

The cast-iron bed and the steel plate of this cooler are cheap to manufacture and are durable and efficient in use. This plate is easily secured tightly in place and can be quickly removed for cleaning and reset water-tight.

I claim as my invention—

1. A candy-cooler having a bed with a water-receptacle and perforated abutments at intervals on the bed outside of the walls of the receptacle, a plate over the receptacle, and bolts extending through the abutments into threaded sockets in the plate, substantially as specified.

2. A candy-cooler having a bed with a water-receptacle, a plate over the receptacle, packing between the upper edge of the walls of the receptacle and the under face of the plate, and means for holding the bed and plate together, substantially as specified.

3. A candy-cooler having a bed with a water-receptacle and perforated abutments extending upwardly at intervals on the bed out-

side of the walls of the receptacle, a plate over the receptacle, packing between the upper edge of the walls of the receptacle and the under face of the plate, and bolts extending through the abutments into threaded sockets in the plate, substantially as specified.

4. A candy-cooler having a bed with a water-receptacle and transverse dams extending across the receptacle near each end, a plate over the receptacle, packing between the upper edge of the walls of the receptacle and the under face of the plate, and means for holding the bed and plate together, substantially as specified.

5. A candy-cooler having a bed with a water-receptacle, transverse dams extending

across the water-receptacle near each end, perforated abutments extending upwardly at intervals on the bed outside of the walls of the receptacle, a groove in the upper edge of the walls of the receptacle, a packing located in said groove, a plate resting upon the packing, and bolts extending through the abutments from below the bed into threaded sockets in the under face of the plate, substantially as specified.

Signed by me at Hartford, Hartford county, Connecticut, this 20th day of February, A. D. 1902.

GEORGE S. COLLUM.

Witnesses:

LESLIE C. WOOD,
H. C. PARRETT.