

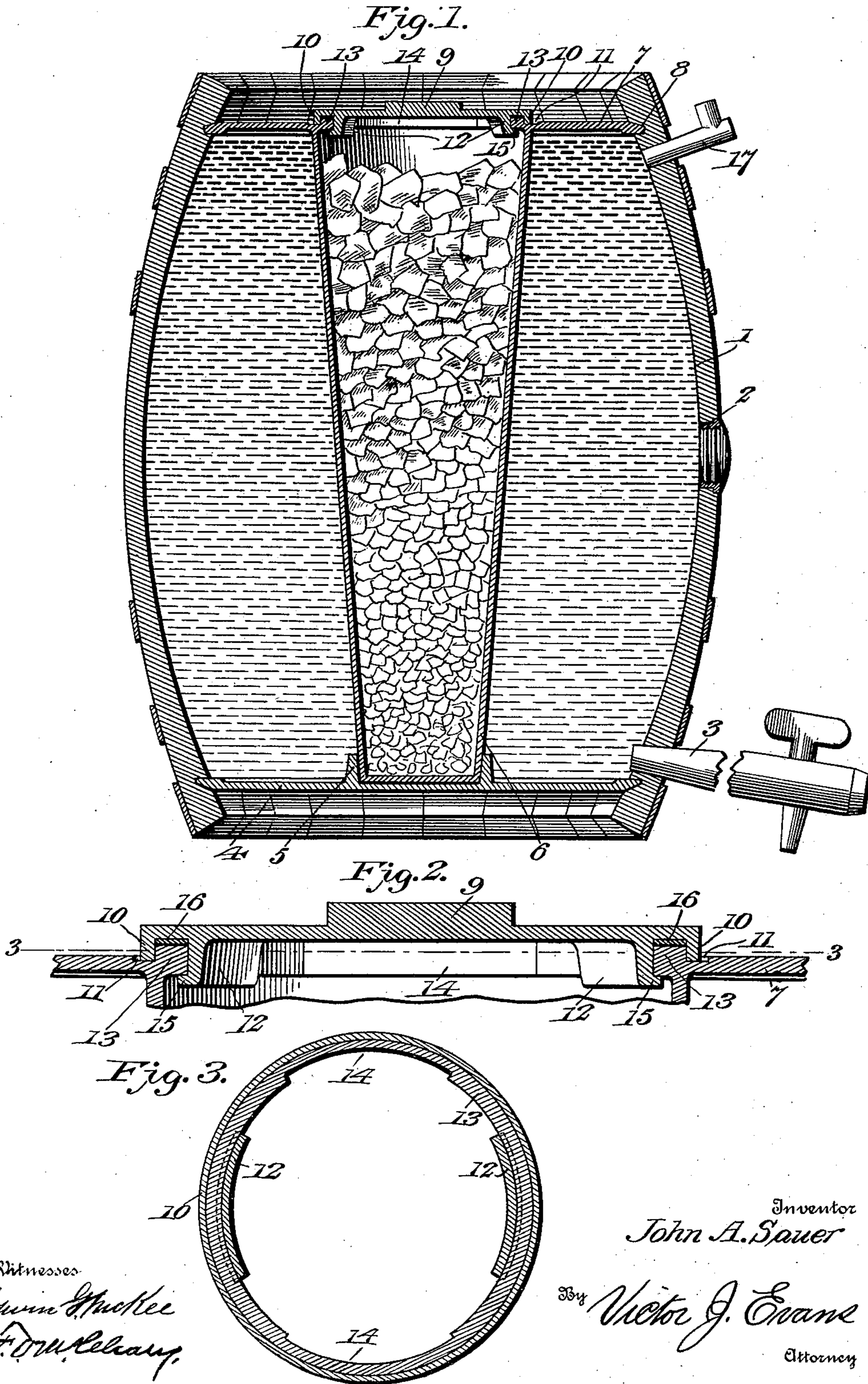
No. 685,063.

Patented Oct. 22, 1901.

J. A. SAUER.  
REFRIGERATOR BARREL.

(Application filed Feb. 23, 1901.)

(No Model.)



# UNITED STATES PATENT OFFICE.

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## REFRIGERATOR-BARREL.

SPECIFICATION forming part of Letters Patent No. 685,063, dated October 22, 1901.

Application filed February 23, 1901. Serial No. 48,529. (No model.)

*To all whom it may concern:*

Be it known that I, JOHN A. SAUER, a citizen of the United States, residing at Wilmington, in the county of Newcastle and State of Delaware, have invented new and useful Improvements in Refrigerator-Barrels, of which the following is a specification.

My invention relates to refrigerator-barrels, the object being to provide a barrel of such construction that its contents may be readily cooled without contact therewith of the ice.

The invention consists in the combination, with a barrel or like receptacle, of a removable vessel adapted to contain ice and provided with an annular flange which serves as a head or closure for the upper end of the barrel.

The construction of the improvement will be fully described hereinafter in connection with the accompanying drawings, which form part of this specification, and its novel features will be defined in the appended claim.

In the drawings, Figure 1 is a central vertical section of a refrigerator-barrel embodying my invention. Fig. 2 is a vertical section, on an enlarged scale, of the upper end of the ice-containing vessel and its removable cover; and Fig. 3 is a horizontal section on the line 3 3 of Fig. 2.

The reference-numeral 1 designates a barrel preferably comprising the usual staves and hoops and having a bung-hole 2 and an opening to receive a discharge-faucet 3. The lower end of the barrel is closed by a head 4, provided with a centrally-arranged ring or annular flange 5, serving as a socket to receive the lower end of a vessel 6, circular in cross-section and preferably of the tapering form shown in Fig. 1. The upper end of the vessel 6 is formed with an annular horizontal flange 7, which is fitted into the annular groove 8, formed on the inner surface of the barrel to serve as the upper head of the barrel. The top of the vessel 6 is closed by a removable cover 9, having a depending annular flange 10, projecting into an annular groove 11, formed at the upper edge of the vessel 6. The cover 9 is also formed with diametrically

opposite depending flanges 12, adapted to fit within an annular flange 13, projecting inwardly from the top edge of the vessel 6 and formed with diametrically opposite recesses 14 to permit the passage therethrough of the flanges 12, which latter have lips 15, projecting horizontally outward to engage below the flange 13 when the cover is given a partial revolution after being applied to the top of the vessel 6. I preferably provide the space between the flanges 10 and 12 of the cover with a gasket or packing-ring 16, which rests upon the upper surface of the flange 13 of the vessel to insure a tight joint between the vessel and its cover.

The barrel may be provided with an opening to receive an air-pipe 17 to facilitate the discharge of liquid.

The utility of the improvement will be readily understood. The vessel 6 is filled with ice, and the liquid is supplied to the barrel through its bung-hole 2.

It will be obvious that the ice-containing vessel is maintained in central position within the barrel by means of the flanges 5 and 7 and that the contents of the barrel are effectively cooled without contact of the ice therewith.

The cover 9 closes the ice-receptacle hermetically, insuring economy in the use of ice, but permitting the refilling of the vessel without disturbing or exposing to the air the liquid contained in the barrel.

I claim—

A barrel comprising a lower head formed with a central annular flange providing a socket, an upper head having a pendent vessel integral therewith and seating in the socket of the annular flange, and formed with a vertical inwardly-projecting flange provided with segmental recesses, and a cover formed with a depending annular flange and with inwardly-projecting flanges having lips.

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

JOHN A. SAUER.

Witnesses:

CHARLES GREEN,  
FREDERICK A. HANK.