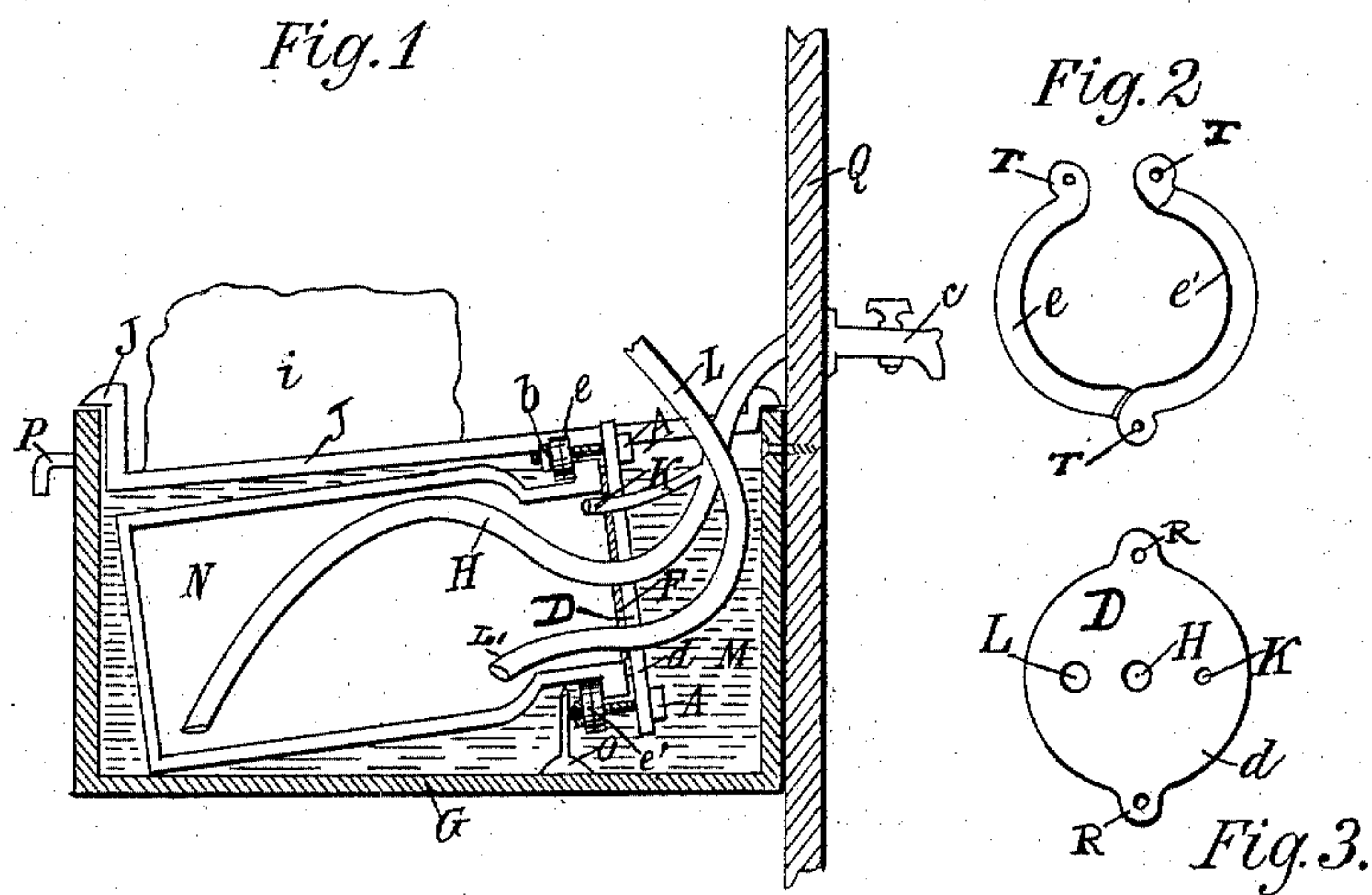


(No Model.)

E. SEITZ.
APPARATUS FOR COOLING BEER.

No. 483,395.

Patented Sept. 27, 1892.



Witnesses:

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UNITED STATES PATENT OFFICE.

EDWARD SEITZ, OF PEORIA, ILLINOIS.

APPARATUS FOR COOLING BEER.

SPECIFICATION forming part of Letters Patent No. 483,395, dated September 27, 1892.

Application filed April 1, 1891. Serial No. 387,322. (No model.)

To all whom it may concern:

Be it known that I, EDWARD SEITZ, of Peoria, in the county of Peoria and State of Illinois, have invented a new and useful Apparatus for the Purpose of Cooling Beer Without the Aid of a Pump, of which the following is a specification.

This invention relates to certain improvements in beer-coolers; and it consists in certain novel features of construction, and in combinations of parts more fully described hereinafter, and particularly pointed out in the claims.

Referring to the accompanying drawings, Figure 1 is a sectional view showing my invention as in use. Figs. 2 and 3 are detail views.

In the drawings the reference-letter Q indicates a wall or partition.

G indicates a suitable ice-box provided with grating J to receive the ice *i*.

P is the overflow-outlet from the ice-box.

c indicates the beer-faucet on the outside of the partition.

N indicates the beer-cooling vessel or jar, supported in the ice-box with its front end raised, as shown. The rear end of the jar or vessel rests, preferably, on the bottom of the box, while its front end is elevated by resting in stand O, extending up from the floor of said box. The jar is sealed air and water tight by the cover D, between which and the mouth of the jar packing F is interposed. This flat plate-cover has perforated end lugs

R R.

e e' is a split separable ring embracing the neck of the jar and having perforated ends J. The bolts A pass through the perforated lugs and ends R and T and bind the plate firmly in position by means of nuts *b* and washers *e* on the ends of the bolts. By this arrangement the jar can be easily opened and sealed when desired for cleansing or other purposes.

L indicates the beer-inlet pipe, passing through the cover D, preferably into the lower portion of the cooling-vessel, and having its end L' curved or bent so as to discharge the incoming beer against the side of the vessel and give it a whirling or twisting motion

around in contact with the cold sides of the jar, and thereby quickly cool the liquid. The beer can be forced through this pipe L from the keg or barrel in any suitable manner, as by elevating the keg or barrel or by connecting the same with an ordinary beer-pump.

H indicates the beer-discharge pipe from the lower portion of the cooling-vessel, extending through cover D to the faucet *c*.

The beer-exit pipe is in communication with the gas-space in the cooling-vessel—*i. e.*, the upper portion of the interior of the cooling-vessel, where the gas from the beer accumulates. This connection is preferably attained by means of a pipe K, extending from the upper portion of the front end of the cooling-vessel through cover D into beer-discharge pipe H at a point between the cooling-vessel and the discharge-faucet. The cooling-vessel is held in the inclined position, so that the gas escaping from the beer accumulates in the upper front end of the vessel at the point where the gas-exit to the beer-discharge pipe is located. This gas-exit to the beer-discharge pipe is a point of great advantage, as it prevents such accumulation of the gas in the vessel as would limit the beer-receiving capacity of the vessel by creating a pressure therein, and, furthermore, it causes the gas to be discharged with the beer as it is drawn for retailing. The released gas is taken from the vessel and forced into the beer as it is being drawn or discharged from the cooling-vessel.

M indicates the ice-water in which the cooling-vessel rests and by which it is maintained cold.

Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent of the United States, is—

1. In a beer-cooler, the combination of the cooling-vessel provided with a beer-inlet and the beer-discharge pipe in communication with the upper part of the interior of the cooling-vessel, where the gas accumulates, whereby the gas is drawn from the vessel and discharged through said pipe with the beer, substantially as described.

2. In combination, the beer-cooling vessel provided with a beer-inlet, the beer-discharge

pipe from the lower portion of said vessel,
and the gas-exit pipe from the upper portion
of the interior of the vessel to said beer-exit
pipe at a point exterior of the vessel, substan-
5 tially as described.

3. In combination, a cooling-chamber, the
cooling-jar therein, a stand beneath the front
end of the jar, elevating the same, the beer-
inlet pipe in the jar, and the beer-discharge
10 pipe from the lower portion of the cooling-jar,

and provided with a gas-exit communication
with the upper portion of the interior of the jar.

In testimony that I claim the foregoing as
my own I affix my signature in presence of
two witnesses.

EDWARD SEITZ.

Witnesses:

JOHN HERSCHBORGER,
TILLIE SINGER.