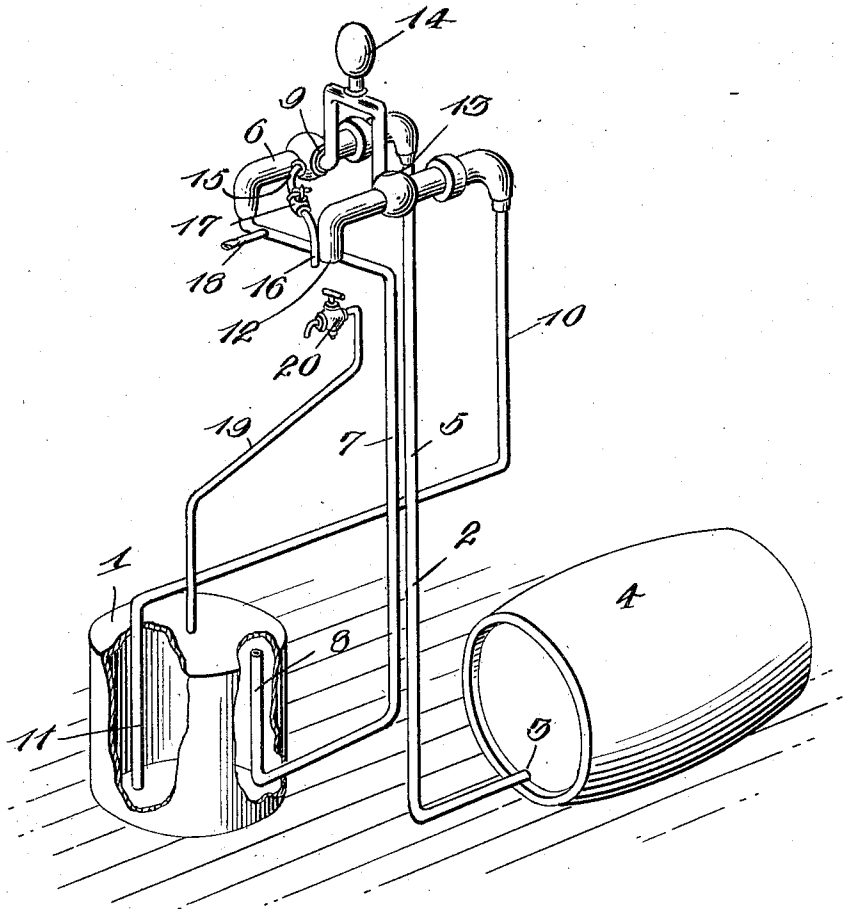


J. H. MAHONEY.
DISPENSING APPARATUS.
APPLICATION FILED SEPT. 25, 1911.

1,062,343.

Patented May 20, 1913.



Witnesses

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DISPENSING APPARATUS.

1,062,343.

Specification of Letters Patent.

Patented May 20, 1913.

Application filed September 25, 1911. Serial No. 651,032.

To all whom it may concern:

Be it known that I, JAMES H. MAHONEY, a citizen of the United States, residing at Worcester, in the county of Worcester and State of Massachusetts, have invented certain new and useful Improvements in Dispensing Apparatus, of which the following is a specification, reference being had to the accompanying drawings.

This invention is an improved apparatus for dispensing carbonated beverages such as beer or the like and to reduce gaseous pressure while dispensing the liquid so as to prevent undue foaming of the same in the glass or other vessel into which the liquid is drawn.

My improved apparatus consists essentially of a pressure reducing vessel, a prime-acting duct to discharge from a barrel or the like into the said vessel, a dispensing duct leading from said vessel and means, causing the prime-acting duct to supply a measure of liquid to the pressure reducing vessel and the dispensing duct to simultaneously discharge a like quantity of liquid from the pressure reducing vessel.

The invention further consists in the construction, combination and arrangement of devices hereinafter described and claimed.

The accompanying drawing is a perspective of a dispensing apparatus embodying my improvements, parts being shown in section.

In accordance with my invention I provide a pressure reducing vessel which is here indicated at 1. I also provide a prime-acting duct which is here shown as a pipe 2, one end of which may be connected, as at 3, to a barrel or other like vessel 4, from which beer or other like liquid is to be dispensed. The prime-acting duct or pipe is here shown as comprising an ascending leg 5, a horizontal, elevated portion 6 and a descending leg 7 which leads from the said elevated portion downwardly and into the pressure reducing vessel 1 and terminates in the said vessel in an upturned arm or discharge portion 8, the upper end of which is open and is disposed at a slight distance below the top of the pressure reducing vessel. The elevated portion 6 of the prime acting duct is provided with a stop cock 9. I also provide a dispensing duct 10 which is here shown as a pipe which leads upwardly from the pressure reducing vessel, as at 11, at a point near the bottom of the

pressure reducing vessel. The said dispensing duct or pipe is provided at an elevated point with a discharge nozzle 12 and also with a stop cock 13. A handle 14 is connected to the stop cocks 9 and 13 to operate both of them simultaneously so as to cause both the prime-acting duct and the dispensing duct to be opened or cut off simultaneously, as the case may be, according to the direction in which the handle is turned. A bypass duct 15 leads from the elevated portion 6 of the prime-acting duct and terminates in a nozzle 16 which is connected to the dispensing nozzle 12 and the said bypass duct is also provided with a suitable manually operated valve or cut-off 17. The leg 7 of the prime-acting duct is provided with a suitable safety valve or vent, which is indicated at 18. A vent pipe 19 also leads upwardly from the pressure reducing vessel 1 and is provided with a stop cock 20.

In the practical operation of my improved dispensing apparatus, initially after the prime-acting duct has been connected to a barrel or other vessel of beer or the like carbonated beverage, the vessel 1 will be full of air. When the valves 9 and 13 are opened, the liquid from the barrel 4 will enter the vessel 1 from the pipe 8, and as it is intended that the vessel 1 shall always contain a quantity of air or gas, the cock 20 is kept closed, so that the air or gas cannot escape. After a predetermined quantity of the beer or the like has entered the vessel 1 from the pipe 8, the cut-offs 9 and 13 are then closed and the pressure from the barrel being cut off, the liquid in the vessel 1 will liberate its gas and become somewhat flat. Thereafter, whenever it is desired to draw a glass or measure of the liquid, the stop cocks 9 and 13 are simultaneously opened by the handle 14, thereby causing a measure of this liquid from which the gas has been partially liberated to be discharged from the vessel 1 through the dispensing duct 10 and the faucet 12, while at the same time, a like quantity of lively or foaming liquid is passed from the barrel 4 through the prime-acting duct into the vessel 1, to take the place of the measure of liquid which is being dispensed from the vessel 1. If desired, the stop cock 17 may be opened while the liquid is being dispensed to cause a predetermined quantity of the lively or foaming liquid to be discharged directly from the prime-acting duct into the glass at the same time that

liquid from the vessel 1 is being discharged into the glass from the nozzle or faucet 12 of the dispensing duct.

5 The valve 18 is merely for the purpose of keeping the pressure in the vessel 1 at the desired point. With the valves 18 and 20 tightly closed and a body of air compressed in the upper part of the vessel 1, it is manifest that the pressure in the vessel 1 cannot
10 rise to the full pressure in the barrel 4, so long as the valves or stop cocks 9 and 13 are simultaneously opened.

By the use of my improved dispensing apparatus beer or other like highly carbonated beverage or liquid may be drawn into
15 a glass or other dispensing vessel in a condition ready to serve and free from all superfluous pressure and foam.

While I have herein shown and described
20 a preferred form of my invention I would have it understood that modifications may be made within the scope of the appended claims.

Having thus described my invention I
25 claim:

1. Dispensing apparatus of the class described comprising a pressure reducing vessel, a prime-acting duct discharging into the said vessel, a dispensing duct leading from
30 said vessel and means to cause the prime-acting duct to supply a measure of liquid to the pressure reducing vessel, and a dispensing duct to simultaneously discharge a like

quantity of liquid from said pressure reducing vessel.

2. Dispensing apparatus of the class described comprising a prime-acting duct to connect to a barrel or the like and having a cut-off device, a pressure reducing vessel into which the prime-acting duct discharges
40 near the top of said vessel, a dispensing duct leading from the pressure reducing vessel at a point near the bottom thereof and also provided with a cut-off device, and means to simultaneously operate the cut-off device of
45 the prime-acting duct and the dispensing duct.

3. Dispensing apparatus of the class described comprising a pressure reducing vessel, a vent device therefor and means to close
50 said vent device, a prime-acting duct discharging into said pressure reducing vessel, a dispensing duct leading from the said pressure reducing vessel, and means to cause
55 the prime-acting duct to supply a measure of liquid to the pressure reducing vessel, and the dispensing duct to simultaneously discharge a like quantity of liquid from said pressure reducing vessel.

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

JAMES H. MAHONEY.

Witnesses:

HARRY BALLARD,

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