

C. M. D. GROS.
BEER FAUCET.
APPLICATION FILED DEC. 31, 1909.

969,053.

Patented Aug. 30, 1910.

2 SHEETS—SHEET 1.

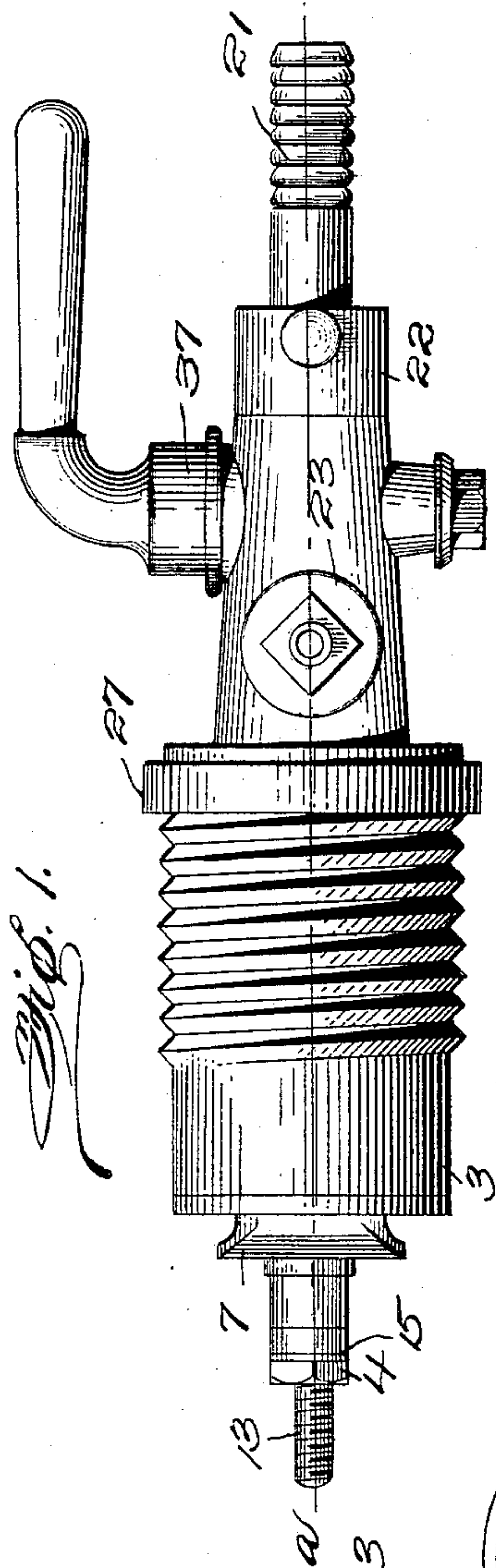


Fig. 1.

Fig. 2.

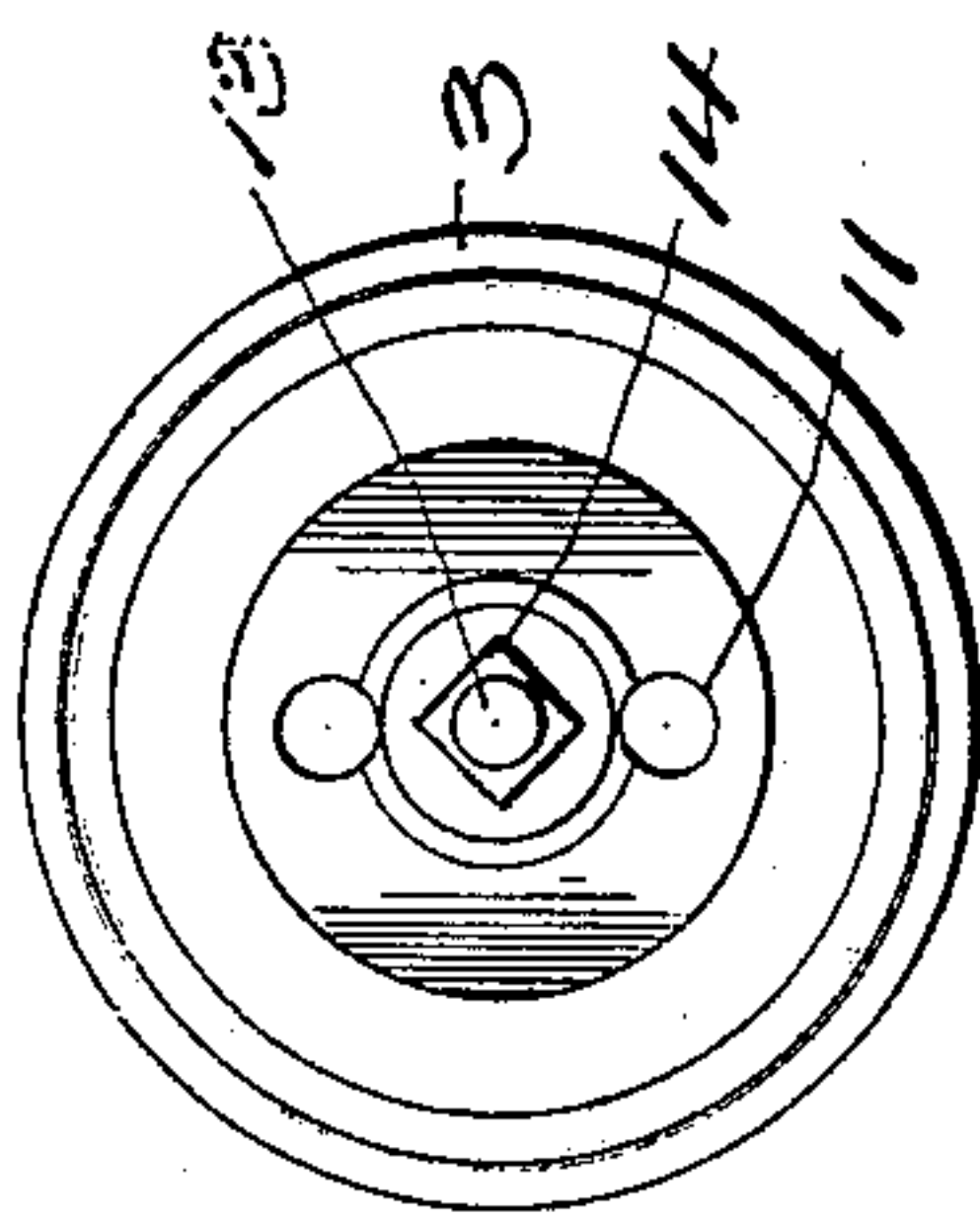
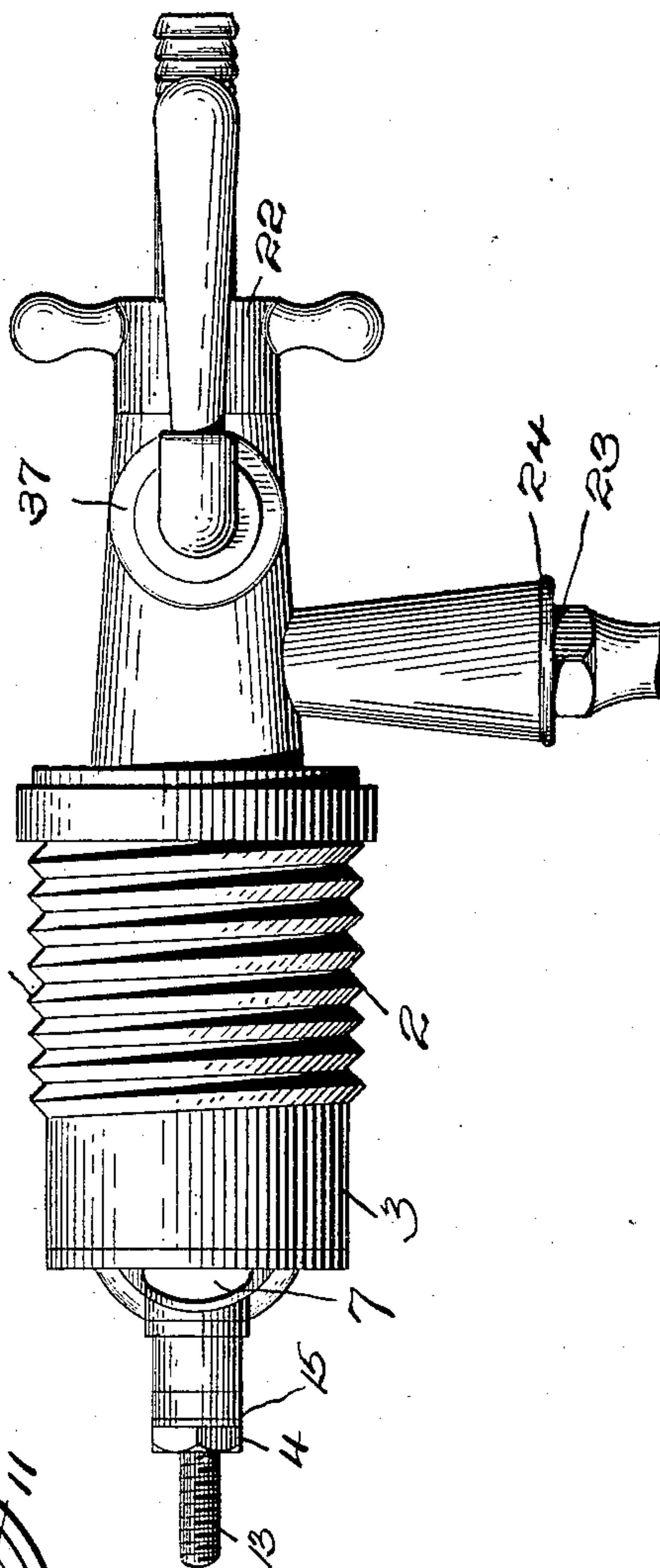


Fig. 3.

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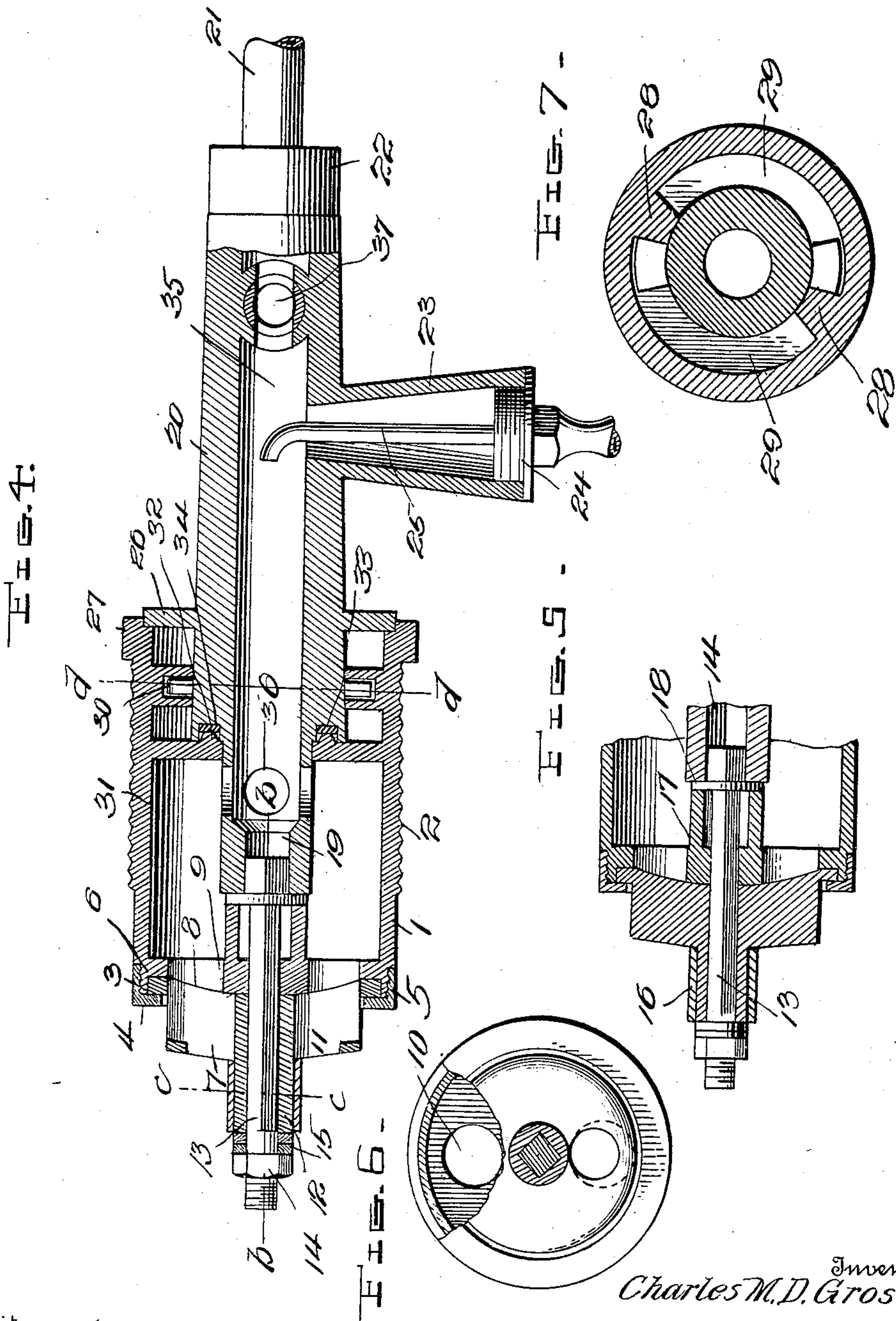
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2 SHEETS—SHEET 2.



Witnesses

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UNITED STATES PATENT OFFICE.

CHARLES M. D. GROS, OF KLOTZVILLE, LOUISIANA.

BEER-FAUCET.

969,053.

Specification of Letters Patent.

Patented Aug. 30, 1910.

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To all whom it may concern:

Be it known that I, CHARLES M. D. GROS, a citizen of the United States, residing at Klotzville, in the parish of Assumption and State of Louisiana, have invented new and useful Improvements in Beer-Faucets, of which the following is a specification.

My invention relates to certain new and useful improvements in beer faucets and it consists in the novel combination and arrangement of parts as will be hereinafter more particularly described and pointed out in the claim.

In the drawings, Figure 1 is a plan view of my complete invention. Fig. 2 is also a plan view of the same showing the faucet and barrel plug attached thereto in a reversed position. Fig. 3 is an end view of the rear end of the barrel plug. Fig. 4 is a longitudinal section taken on the line *a—**a* of Fig. 1. Fig. 5 is a transverse section taken on the line *b—b* of Fig. 4 with parts broken away. Fig. 6 is a cross section taken on the line *c—c* of Fig. 4 with a portion of the valve broken away showing the barrel plug and stem forming a part thereof in section. Fig. 7 is a cross section of the barrel plug and faucet taken on the line *d—d* of Fig. 4.

The object of my invention is to construct a very simple and practical faucet and means forming a part thereof for supplying a carbonic acid or other gas under pressure directly to said faucet, through which the beer or other liquid is drawn from the cask or barrel, whereby the beer or other liquid is discharged through the same faucet.

My invention further consists in constructing the faucet and bung plug for the barrel or cask in such a manner that when united and the faucet turned in its proper position in relation to the bung plug, the beer or the liquid is admitted to the faucet and can be readily drawn from the barrel through the usual beer drawing spigot forming a part of the faucet, but when said faucet is turned in a position to remove the same from the bung plug, the valve in the latter is automatically closed and the barrel is therefore hermetically sealed for all practical purposes; and my invention further consists in the details of construction as will hereinafter more fully appear from the description to follow.

Referring to the drawings 1 represents a bung plug which is circular in cross section

or cylindrical and provided with the usual exterior screw threads 2, whereby the same may be easily and securely fastened or screwed into the ordinary bung hole of a barrel or cask. The rear end of the bung plug is reduced and provided with exterior screw threads 3, upon which is screwed a flanged collar 4 forming an annular space 5 which freely but snugly receives the annular flanged portion 6 of the movable member 7 forming a part of the valve. The inner contacting curved surface 8 of the member 7 of the valve is in frictional contact with a similar curved surface of the annular seat 9 forming an integral part of the bung plug 1, the said seat being provided with ports 10 which register with the ports 11 formed in the movable member 7 of the valve thus formed when the faucet is placed in its proper position within the bung plug.

Forming a part of the movable member 7 of the valve is a hollow cylindrical portion 12 through which a stem 13 freely passes, the outer end of said stem being screw threaded and adapted to receive a nut 14 and washer 15, a collar 16 being interposed between said washer and movable portion 7 of the valve for adjusting and binding the several parts together.

Forming a part of the movable portion 7 of the valve and receiving the inner end of the stem is a tubular extension 17 against which the annular flanged portion 18 of the stem 13 is brought in contact when the parts are brought in a binding position in respect to one another, the said terminal inner end of the said stem being square or polygonal in shape as shown at 14 for receiving a similarly shaped opening 19 formed in the inner connecting end of the faucet 20.

The faucet 20 is provided at its outer end with the usual hose 21 leading from a suitable beer tapping faucet, a hose coupling 22 being employed to connect the said hose to the outer end of said faucet, whereby the latter is in communication with the hose and detachably connected thereto. The faucet 20 is provided with a conical shaped extension 23 which is in communication with the interior of the faucet and having its lower end screw threaded to receive a screw threaded plug 24, the latter being connected by a pipe leading from any suitable hand or power compressing pump for supplying carbonic acid or other gas to the faucet which is properly directed to the latter by a pipe 25 fixed to the screw threaded

plug, in any suitable manner. The faucet 20 is provided with an annular flanged portion 26 which comes in contact with the annular shoulder 27 formed in the outer end of the bung plug 1, thereby forming a closed connection at that point when the faucet is placed in its proper position within the plug.

Projecting from the outside of the faucet 20 and in an opposite direction to one another are two lugs 28, which are adapted to cooperate with oppositely located cam surfaces 29 formed within the grooved portion 30, of the bung plug 1, when the said faucet is located within the latter for binding the same together.

Forming a part of the interior of the bung plug 1 is an annular wall 31 having a central opening and surrounding the latter and projecting therefrom is a flanged portion 32 which comes in contact with a gasket 33 located within an annular groove 34 formed in the spigot 20, whereby the parts are hermetically sealed when in their normal position for drawing the beer or other liquid from the barrel or cask.

Formed in the inner end of the spigot 20 and in communication with the central bore or passage 35 of the latter, are ports 36, through which the beer or other liquid is adapted to pass and into the central bore or passage 35 of the spigot.

The forward end of the spigot 20 is provided with the usual beer drawing spigot 37 which in the present instance is preferably located at any position between the hose leading from an ordinary beer tapping faucet and the coupling or pipe for supplying carbonic acid or other gas to the faucet.

In practice the bung plug 1 is screwed into the barrel in the usual manner and the parts previously described adjusted to cause the valve located in the plug to assume an operative position, the said valve being closed before the spigot is inserted within the plug. When it is desired to tap the barrel, the spigot is inserted within the bung plug 1 so as to allow the polygonal inner end of the stem of the valve to enter the correspondingly shaped socket formed in the inner end of the spigot, in which position the parts are readily coupled, after which the spigot is partially turned, bringing the parts into a binding contact with one another and forming a hermetically sealed union between the bung and spigot in which operation or

the partial turning of the spigot the valve is opened, permitting the beer or other liquid contained within the barrel to freely pass through said valve and into the spigot. It will be noted in this connection that the reversed movement of the spigot will release the latter from the bung plug and simultaneously close the valve previously referred to, whereby the closing of the valve located within the bung plug 1 will hermetically seal the same and prevent dirt or other accumulations from entering the barrel after the spigot has been removed.

Having thus fully described the invention what is claimed as new is:

A beer faucet having a drawing spigot, means forming a part of the same for supplying carbonic acid or gas to the interior of said spigot, lugs forming a part of the latter, an annular flange also forming a part of the said spigot, a bung plug having a seat located at its inner end and provided with ports, a movable member forming a part of said valve and having ports formed therein and adapted to register with the ports formed in the side of the valve, a stem adjustable within the valve in a longitudinal direction, and adapted to turn with the movable member thereof, said stem having a polygonal shaped inner end adapted to be received by a correspondingly shaped opening or socket formed in the inner end of the spigot when the parts are properly united, a wall formed within the bung plug and cooperating with the spigot for hermetically sealing the latter within the bung plug, and lugs forming a part of the spigot and adapted to be received by an annular groove formed within the bung plug, one wall of said groove having oppositely disposed cam surfaces against which the said lugs forming a part of the spigot are adapted to be brought in contact for binding the several parts together, the said annular flanged portion of the spigot being received by an annular groove formed in the forward end of the bung plug, when the several parts are brought into a binding and operative position.

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

CHARLES M. D. GROS.

Witnesses:

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