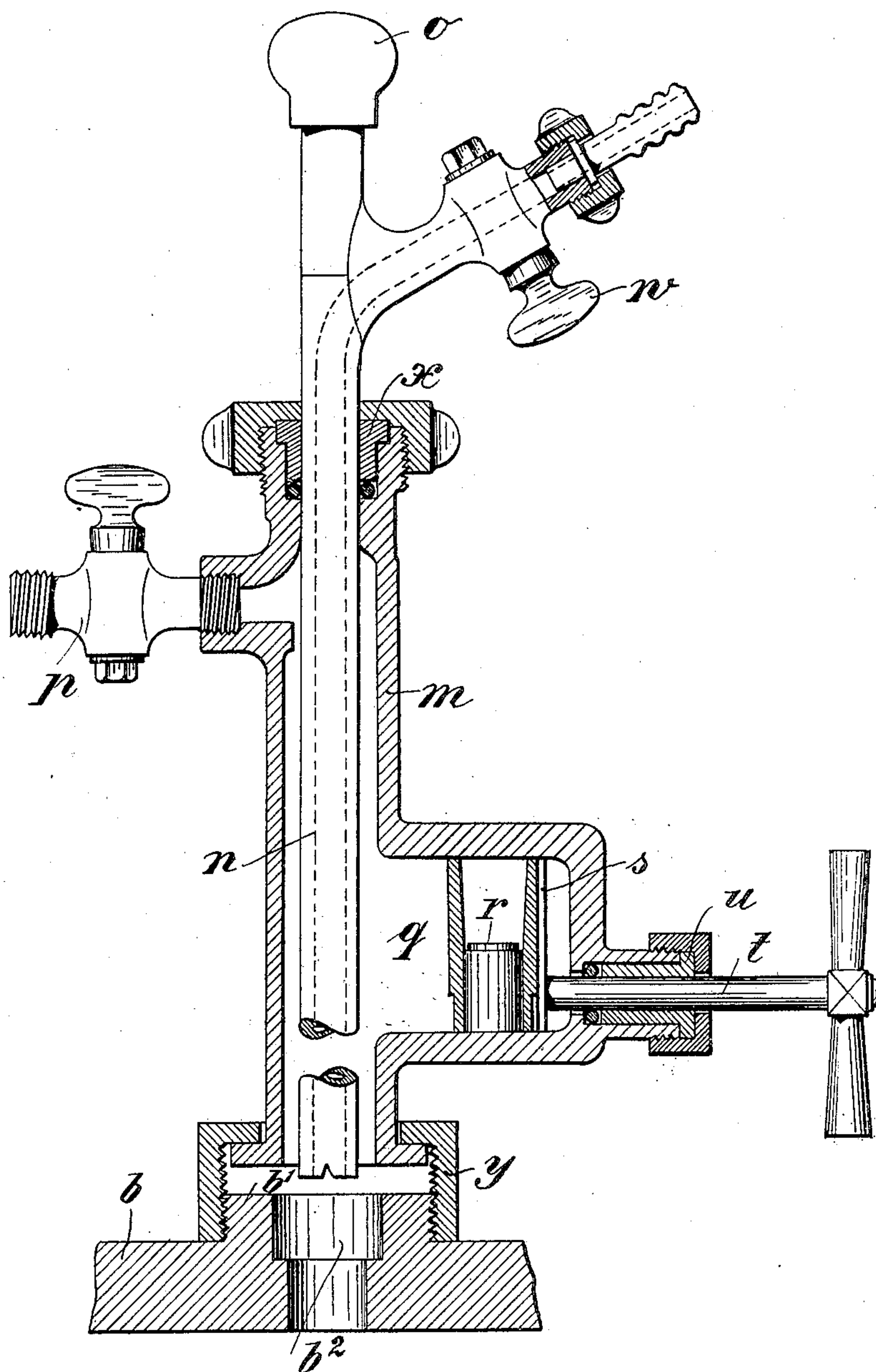


No. 828,594.

PATENTED AUG. 14, 1906.

E. BERLINER,
MEANS FOR FILLING AND CLOSING BARRELS.
APPLICATION FILED MAR. 1, 1904.



Witnesses—
Emile A. Hayman
Paul Koch

Inventor:
E. Berliner

UNITED STATES PATENT OFFICE.

ERICH BERLINER, OF ELBERFELD, GERMANY.

MEANS FOR FILLING AND CLOSING BARRELS.

No. 828,594.

Specification of Letters Patent.

Patented Aug. 14, 1906.

Application filed March 1, 1904. Serial No. 196,038.

To all whom it may concern:

Be it known that I, ERICH BERLINER, a subject of the King of Prussia, German Emperor, residing at No. 64 Ronsdorferstrasse, Elberfeld, Germany, have invented certain new and useful Improvements in Means for Filling and Closing Barrels, of which the following is a specification.

My invention relates to an apparatus for filling and driving the bungs into beer-barrels and other receptacles after they have been properly filled.

The invention has particular reference to the provision of means for driving the bung or stopper into the barrel after the same has been filled with sterilized beer or liquid, and I employ means which places the stopper in position without exposing the beer to the contact of air at any time.

The drawing shows a vertical sectional view of a bung-driver embodying the principles of my invention.

I prefer to employ a casing through which the fluid is forced into the barrel and in which is contained the bung or stopper, which is afterward positioned and driven in a special way.

Referring to the drawing, *b* denotes the top of a barrel which is to be filled and plugged, and *b'* indicates a boss or protuberance upon the same, having exterior screw-threads for a purpose which will presently appear.

b² indicates a shouldered recess or opening through the boss *b'*, extending into the barrel.

I provide a casing *m* in the form of a tubular frame having a chamber or enlarged cavity at one side thereof.

y indicates a coupling-nut which screws upon the boss *b'* and holds the casing *m* in place in any desired way, which will be readily understood.

Leading into the casing *m* I provide a plurality of inlet-pipes, of which one is indicated at *p* and comprises a stop-cock at the side of the casing. The other of the inlet-pipes enters the casing through a form of plunger or tube which moves telescopically into and out of the casing. *n* designates this plunger or tube and is provided with a longitudinal duct or channel having a laterally-projecting pipe including the stop-cock *w*. The tube *n* has a knob *o* at its upper end, by which it may be

driven into the casing, and is further provided with a gland or stuffing-box *x*, so as to move therein with an air-tight engagement.

Within the chamber previously referred to, which forms a part of my casing *m*, I provide a plate *s*, having a rod *t* attached thereto, which passes through a gland *u* within the casing, so as to be movable in and out there-through. Adjacent to the plate *s* and adapted to be pushed by the same is a bushing *q* of a size adapted to receive the cork or bung which is to be applied to the barrel.

The operation of my invention is as follows: The sterilizing fluid is first admitted through a pipe *n* into the barrel to cleanse the same, after which it is expelled by the pressure of carbonic-acid or other gas admitted through the pipe *p*. The beer or other fluid may now be admitted through the tube *n*, and when the receptacle is full the tube *n* is raised so that its lower end is above the range of movement of the bushing *q*. The bushing *q* is now pressed forward by its rod *t* until it drops through the casing into the shouldered recess *b²* of the barrel, after which the tube *n* may be pressed down by blows upon the knob *o* or in any other way, so as to firmly drive and fix the bung *r* in position.

What I claim, and desire to secure by Letters Patent of the United States, is—

A device for filling and closing receptacles, consisting of a casing adapted to be fitted at the bung of the receptacle, a tube arranged to slide through the casing and into the bung-hole, means whereby liquid can be passed through the tube, the casing having a chamber at one side, a bushing disposed in said chamber and arranged to contain a stopper fitting the bung-hole, a rod extending out of the chamber arranged to move the bushing from the chamber into the casing in alignment with the tube and bung-hole, the bushing being smaller than the casing to pass down onto the bung, the tube being arranged to enter the bushing and force the stopper into the bung-hole.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

ERICH BERLINER.

Witnesses:

EMIL P. AFENBRUCH,
PAUL NOACK.