

(No Model.)

G. H. WALKER.
BEER FAUCET.

No. 471,630.

Patented Mar. 29, 1892.

FIG. 1.

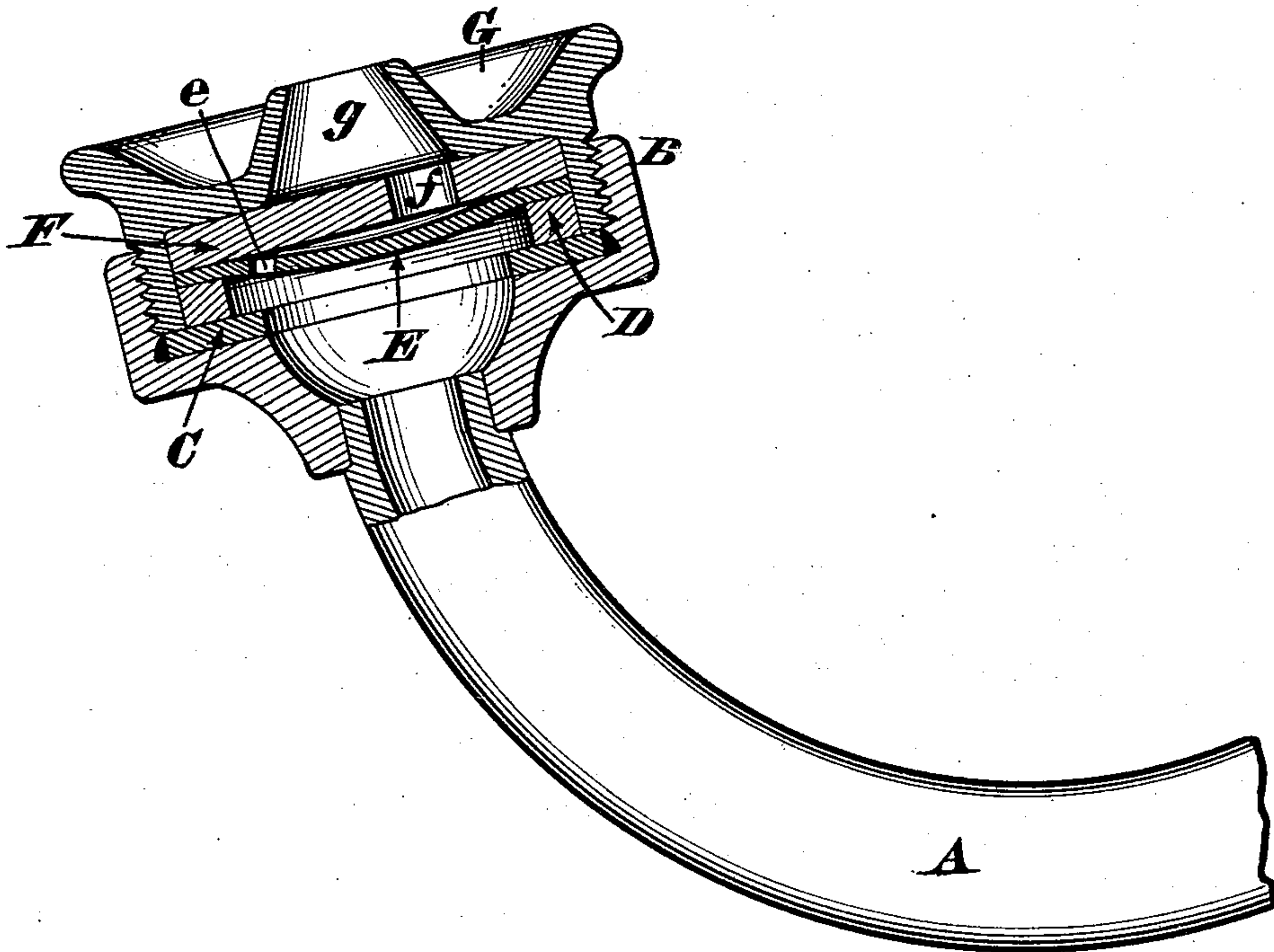


FIG. 2.

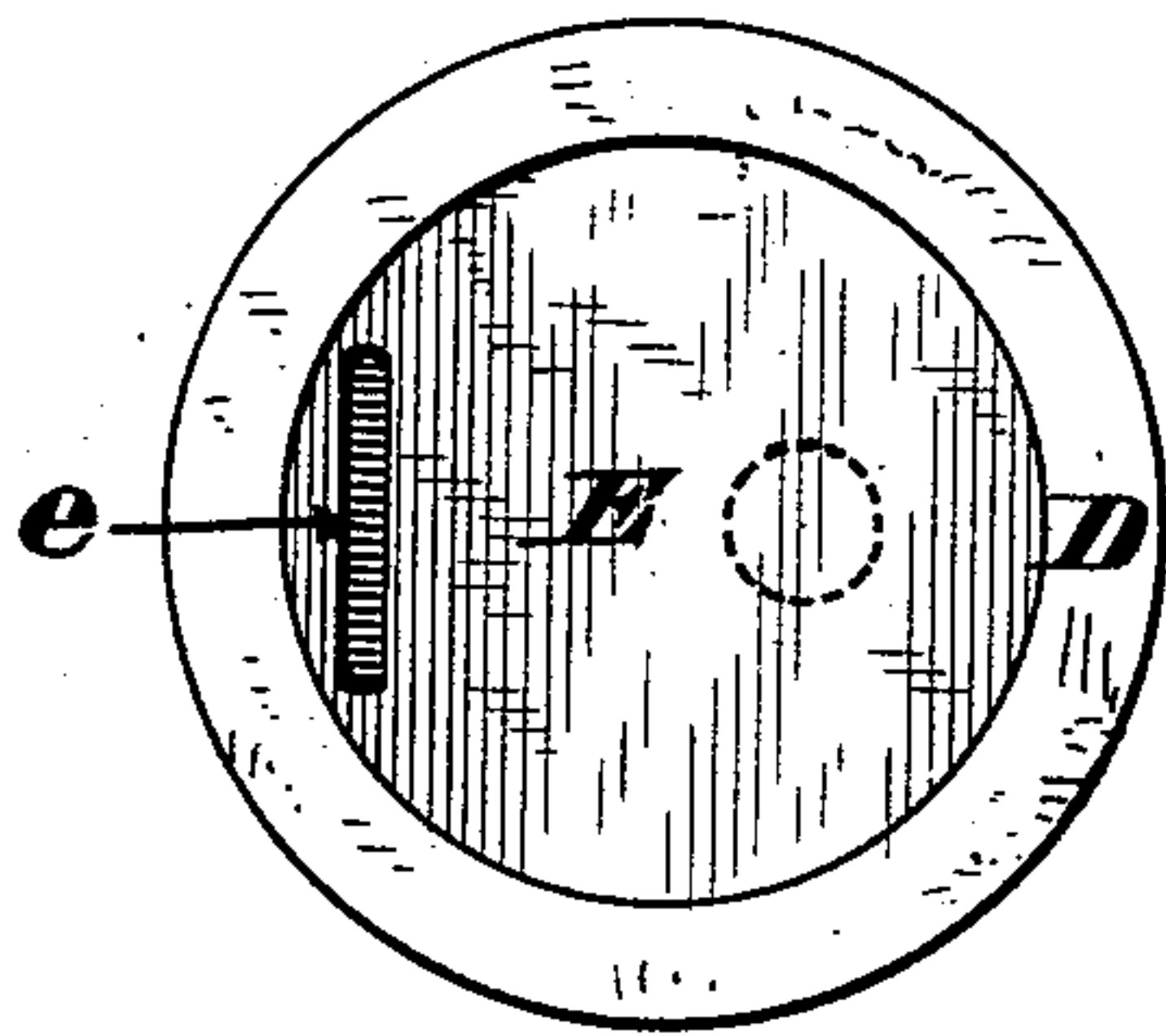
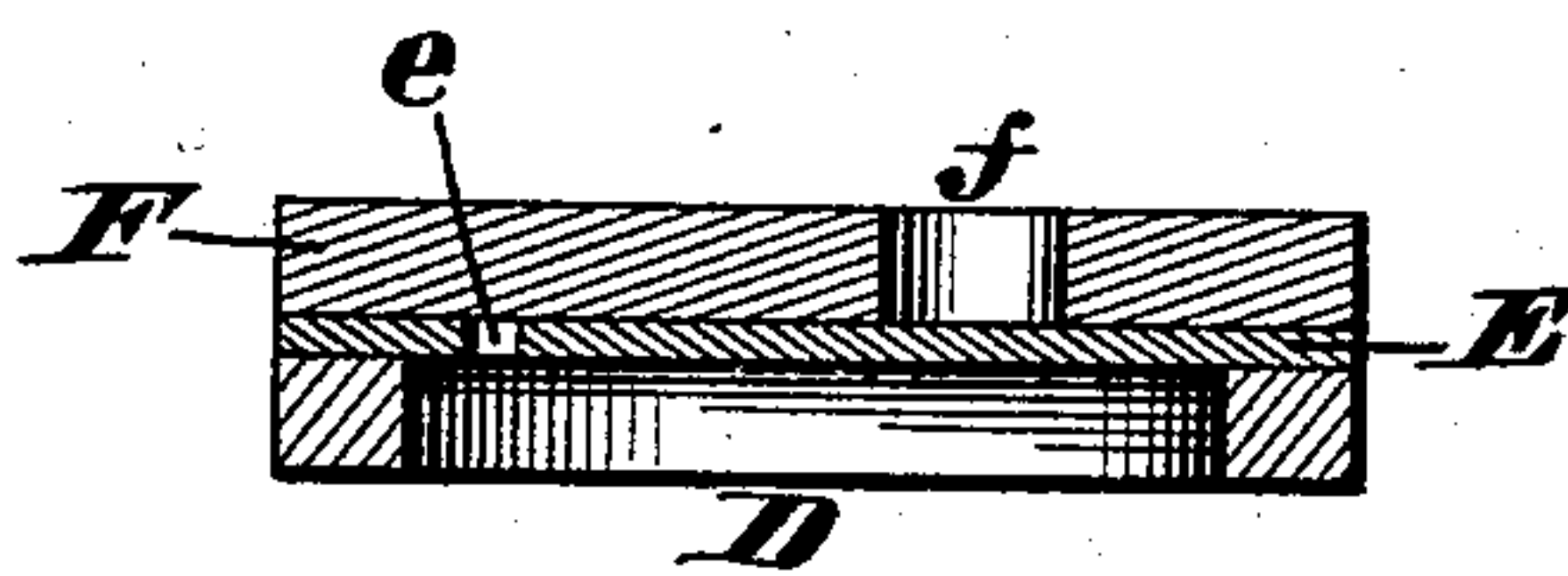


FIG. 3.



Attest.

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UNITED STATES PATENT OFFICE.

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BEER-FAUCET.

SPECIFICATION forming part of Letters Patent No. 471,630, dated March 29, 1892.

Application filed September 8, 1891. Serial No. 405,120. (No model.)

To all whom it may concern:

Be it known that I, GEORGE H. WALKER, a citizen of the United States, residing at Cincinnati, in the county of Hamilton and State of Ohio, have invented certain new and useful Improvements in Beer-Faucets; and I do hereby declare the following to be a full, clear, and exact description of the invention, reference being had to the annexed drawings, which form part of this specification.

This invention relates to those beer-faucets which are provided with special tubes that admit air into the barrel or keg when the liquor is drawn therefrom, and my improvement comprises a novel construction of inlet-valve to be applied to the exposed end of such tubes. Said inlet-valve consists of a diaphragm of india-rubber or other flexible material, whose margin is secured between an unyielding disk and an annulus or ring, the valve or diaphragm and the unyielding disk being perforated in two different planes. By this construction a double seat is afforded, that secures the utmost accuracy in the operation of the inlet-valve, as hereinafter more fully described.

In the annexed drawings, Figure 1 is an enlarged axial section showing my improved valve applied to the air-inlet tube of a beer-faucet, the valve being open. Fig. 2 is a plan of the under side of the valve proper, its inclosing box or shell being omitted. Fig. 3 is a vertical section of the valve in its closed condition.

A represents a portion of the sliding air-tube of any approved form of beer-faucet, and B is a cylindrical shell or case secured to the exposed end of said tube and communicating therewith in the manner shown. This shell, case, or box B usually has an annular gasket C at bottom, upon which rests the valve proper, the construction of the latter being more clearly seen in Fig. 3. Here D represents a ring, E a flexible diaphragm, and F an unyielding disk, said members D

E F being of practically the same diameter and being so cemented together as to hold said diaphragm at its margin, but leave its central portion free to bend inwardly. The diaphragm E has a slit or other opening *e* near one side of the ring D, while the disk F has an opening *f* near the opposite side of said ring; but these openings may be otherwise disposed, provided they are not in the same plane.

G is a cap screwed into the shell B and having a central orifice *g*.

From the above description it is evident that as long as there is any material pressure within the beer-keg the diaphragm E will be forced upwardly or against the unyielding disk F, thereby affording a double seat, one at the slit *e* and the other at the orifice *f*, as seen in Fig. 3. Consequently this double seat of the valve or diaphragm effectually excludes air from the keg; but the very instant there is any tendency to a vacuum within the vessel the central portion of said diaphragm will be forced away from the disk F, as seen in Fig. 1. Air will then enter through the three inlets *g f e*, thereby destroying the vacuum and inducing a free flow of beer. It is evident this valve can be applied to various other forms of venting appliances, the screw-threaded cap G enabling the ready inspection of the device at any time.

I claim as my invention—

As a new article of manufacture, a valve consisting of a flexible diaphragm E, perforated at *e* and having its margin permanently secured between a lower ring D and an upper disk-seat F, perforated at *f*, said perforations *e f* being in different planes, all as herein described, and for the purpose stated.

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

GEORGE H. WALKER.

Witnesses:

JAMES H. LAYMAN,
A. B. DUNLAP.