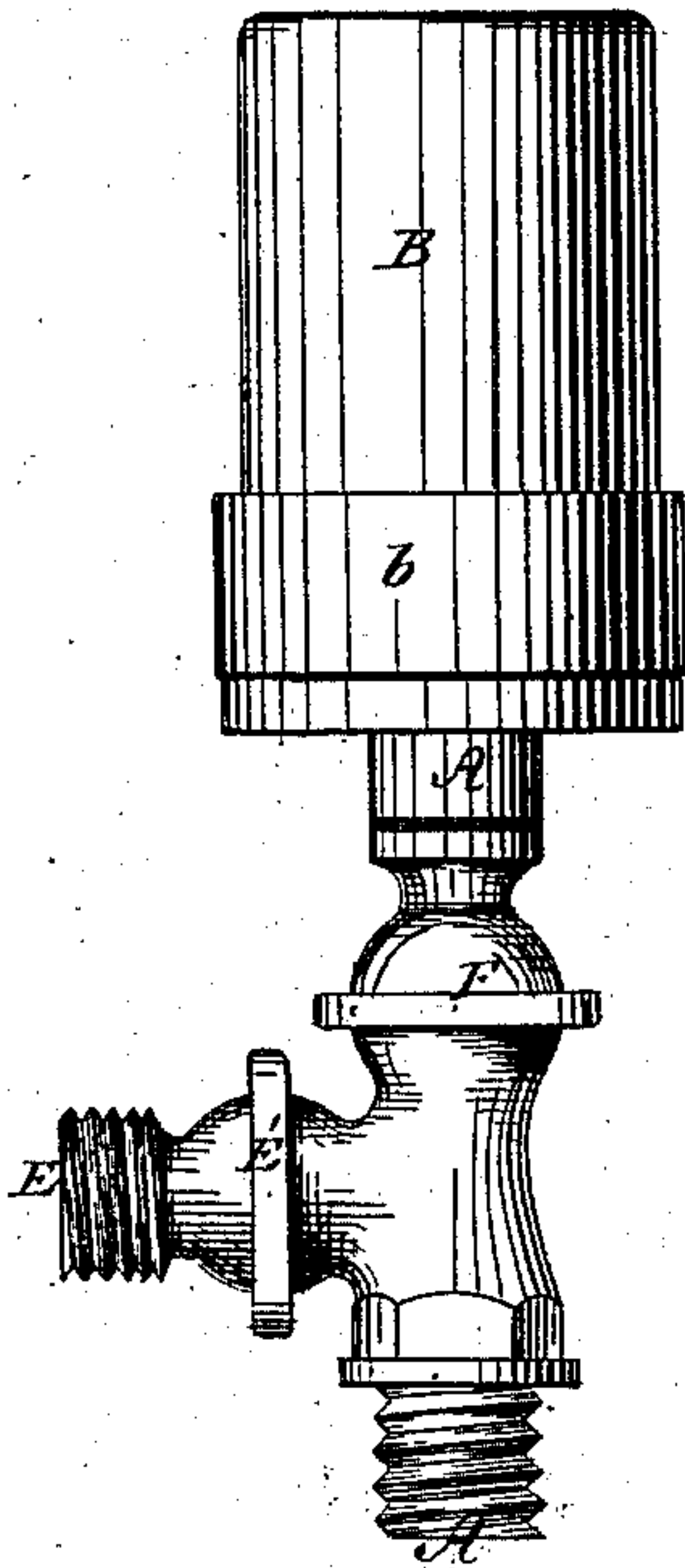
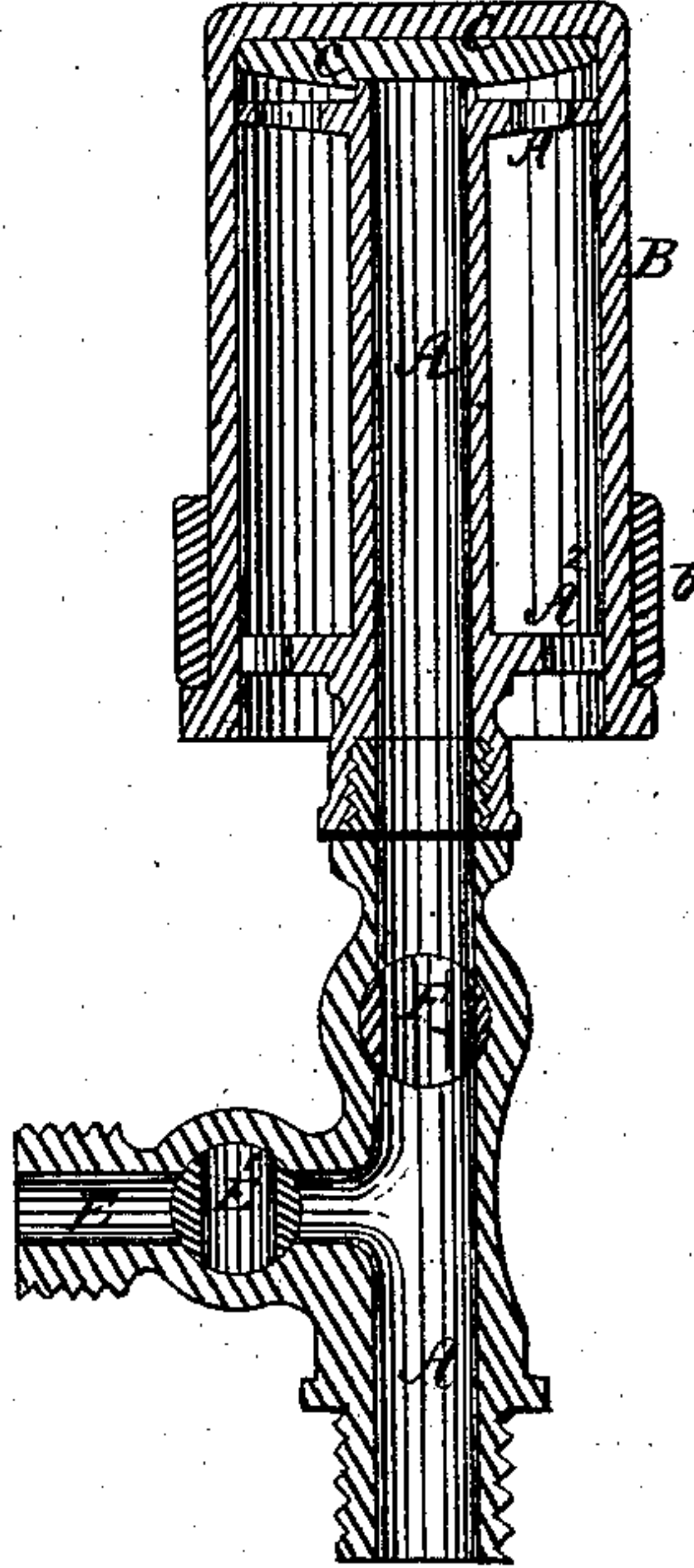


H. GUTH.  
 Ventilating-Valve for Fermenting-Casks.  
 No. 225,368.      Patented Mar. 9, 1880.

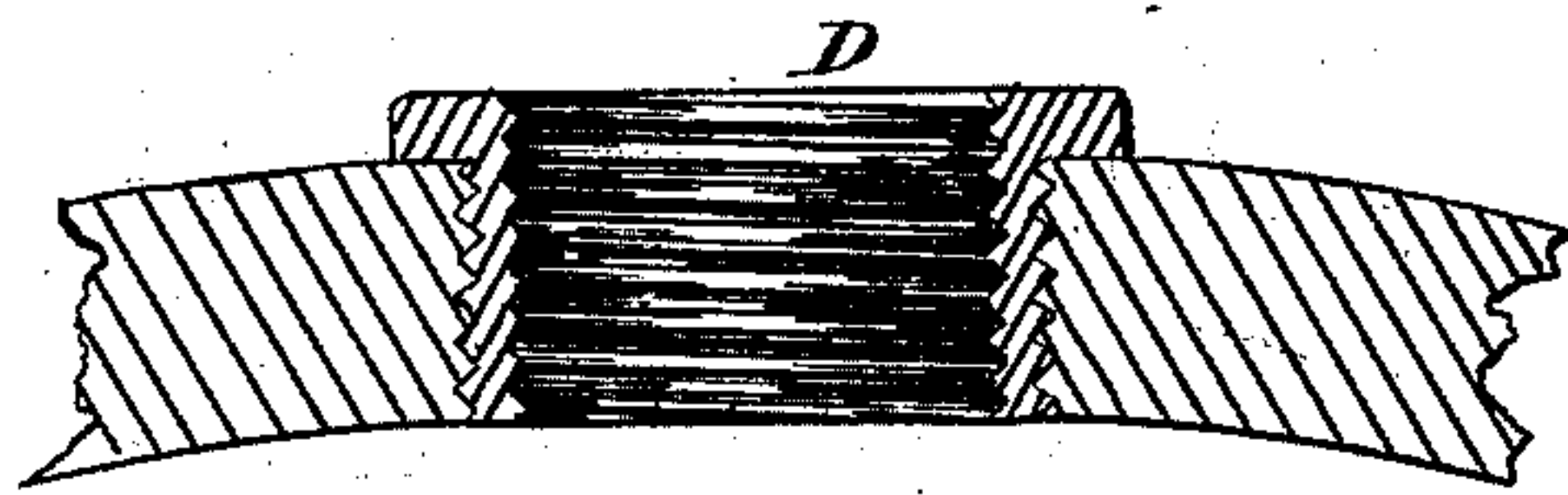
*Fig.1*



*Fig.2*



*Fig.3*



*Witnesses :-*  
*D. P. Cowl*  
*E. J. Bacon*

*Inventor :-*  
*Henry Guth*  
*by his Atty.*  
*Wm. H. Row*



# UNITED STATES PATENT OFFICE.

HENRY GUTH, OF NEW YORK, N. Y.

## VENTILATING-VALVE FOR FERMENTING-CASKS.

SPECIFICATION forming part of Letters Patent No. 225,368, dated March 9, 1880.

Application filed December 31, 1878.

*To all whom it may concern:*

Be it known that I, HENRY GUTH, of the city of New York, in the county of New York and State of New York, have invented certain new and useful Improvements in Ventilating-Valve and Air-Cock for Fermenting-Casks; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification.

This invention relates to certain improvements upon the invention for which Letters Patent of the United States No. 203,580 were granted to J. Bersch, May 14, 1878; and it has for its object to provide for the more accurate operation of the weighted cylinder upon its guide-disks, and to render the apparatus more compact and less liable to accidental injury.

To this end the invention consists in providing said cylinder with an annular shoulder at its lower outer end, and with a series of weights adapted to sit thereon, whereby the weight-rod, which is apt to be bent or injured, is dispensed with, and the cylinder more accurately guided upon its disks as it is elevated or depressed, as more fully hereinafter shown and described.

In the accompanying drawings, Figure 1 is a side elevation of my improved device ready to be applied to a fermenting-cask; Fig. 2, a central vertical section through the same; and Fig. 3, an enlarged detail, in vertical section, of the plug or thimble for attaching the device to the cask.

The tube A is provided with piston-disks A' A<sup>2</sup>, perforated or notched to allow the gas and froth overflowing from the tube A to escape.

The cylinder-tube B is weighted in any desired manner, preferably by metallic rings b b, which fit around the cylinder and rest upon a flange at its lower edge. A rubber washer or disk, C, is placed in the cylinder to hermetically close the upper end of the tube.

The lower end of the tube A screws into a screw-plug or thimble, D, with threads formed upon its inner and outer surfaces, the outer threads being screwed tightly and ac-

curately into a hole in the upper side of the cask, so that when the tube A is secured in place it will always be in a vertical position. 55

Between the lower disk or piston, A<sup>2</sup>, on the tube and the point of attachment to the cask a branch pipe, E, connects with the tube A, and is provided with a stop-cock, E', and an external screw-thread upon its end, which will permit an air pipe or hose connected with an air-compressor to be attached. 60

The branch pipe E may be connected by hose with similar pipes and cocks attached to any of the other fermenting-casks when it is desired to transfer an excess of gas from one of the vats to another, and thus utilize the gas which would otherwise escape through the valve to hasten the fermentation of the beer which is still unripe. 65

Between the lower disk or piston, A<sup>2</sup>, and the point where the air-pipe joins the tube A a stop-cock, F, is placed, which is to be kept open while the fermenting-valve is in use and closed when the air-valve is opened, so that the compressed air used to discharge the beer from the fermenting-cask to the barrels will not escape through the tube and valve. 70

As the weight, in the present instance, is below the top of the cylinder, it will tend to hold the said cylinder concentric with the disks, and thus lessen the friction of said cylinder upon said disks, thus rendering the action of the cylinder more delicate than the devices of this class as heretofore constructed. 75

I claim as my invention and desire to secure by Letters Patent—

In a ventilating-valve for vessels containing fermented liquors, the combination, with the stem A, carrying the perforated guide-disks A' A<sup>2</sup>, of the cylinder B, fitting over said disks, and closed at its upper end, where it is provided with a valve, C, and one or more annular weights, held on the outside of the cylinder at a point below the center of gravity of the same, substantially as specified. 80 85 90 95

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

H. GUTH.

Witnesses:

JOS. LAMBRECHT,  
HENRY C. BOTTY.