

E. J. BENNETT.
SPRING VENT FOR CASKS

117731

PATENTED AUG 8 1871

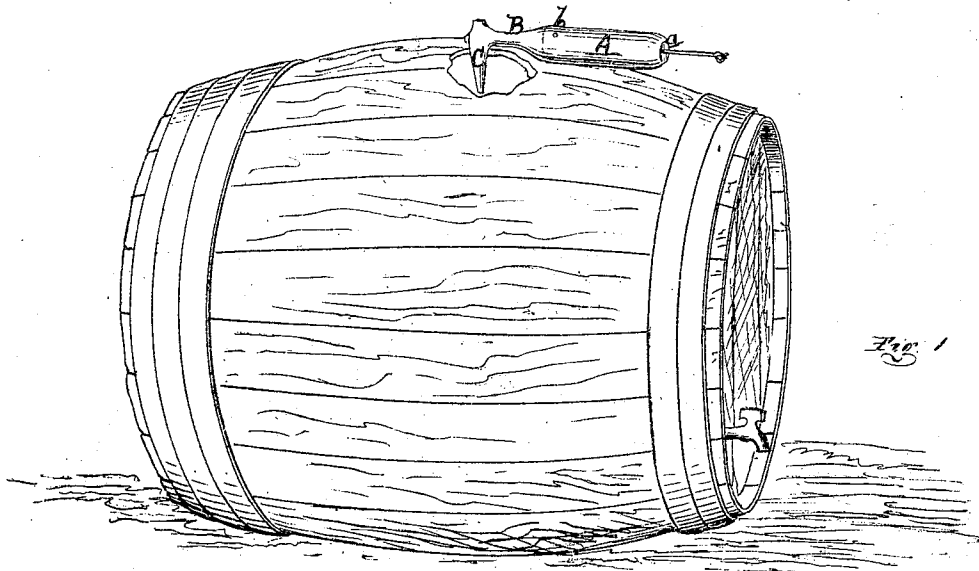


Fig. 1

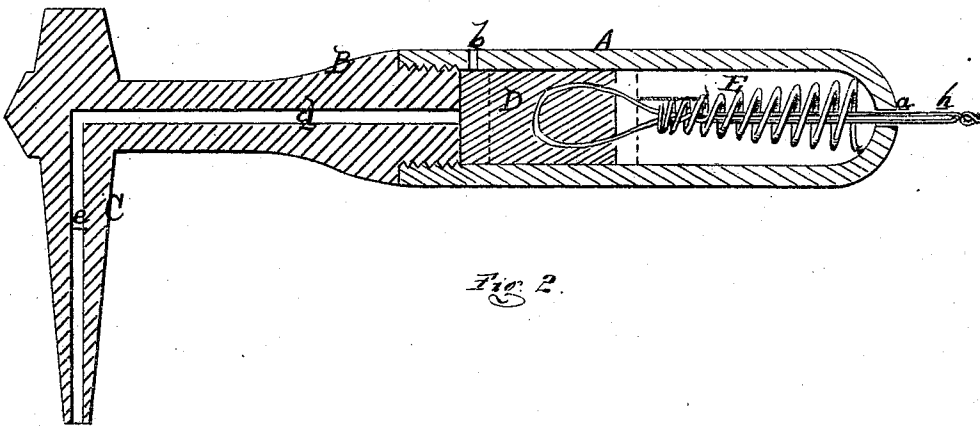


Fig. 2.

ATTEST
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UNITED STATES PATENT OFFICE.

EDMUND JAMES BENNETT, OF PORT HURON, MICHIGAN.

IMPROVEMENT IN SPRING-VENTS FOR CASKS.

Specification forming part of Letters Patent No. 117,731, dated August 8, 1871.

To all whom it may concern:

Be it known that I, EDMUND JAMES BENNETT, of Port Huron, in the county of St. Clair and State of Michigan, have invented a new and useful Improvement in Spring-Vents for Casks of all descriptions; and I do declare that the following is a true and accurate description thereof, reference being had to the accompanying drawing and to the letters of reference marked thereon, and being a part of this specification, in which—

Figure 1 is a perspective view of my improvement attached to a barrel. Fig. 2 is a longitudinal vertical section of the vent.

Like letters refer to like parts in each figure.

The nature of this invention relates to an improved device to be employed in giving vent to casks of all descriptions wherein liquids are kept, and from which they are to be drawn. The invention consists in the peculiar construction of a device so arranged that the vent will always be closed, except when force is applied to open the same, as more fully hereinafter described.

In the annexed drawing, A represents a cylinder, closed at its outer end except a small hole, *a*, and provided with small vent-holes *b*. This cylinder is connected by a suitable screw-thread, *c*, to another conically-shaped cylinder, B, the opening *d* through it being very much smaller than the bore of the cylinder A. The outer end of this cylinder B terminates in a conically-shaped

cylinder, C, the opening *e* through the same forming a connection with the opening *d* in the cylinder B. Within the cylinder A is placed a cork, D, or other equivalent valve, in such a manner as to close the end of the opening *d*. Between this valve and the end of the cylinder is placed a coil spring, E, which holds the valve against the opening *d*, except when the said valve is forcibly withdrawn beyond the vents *b* by means of the connecting-rod *h*, one end of which is secured to the cork while the other projects through the opening or hole *a* in the end of the cylinder A. When it is desired to give vent to the cask the valve is withdrawn beyond the vent holes, as above described, and the moment the valve is released the spring causes the same to close. The vertical cylinder C is to be driven through the barrel, as shown in Fig. 1, so that the lower end of the opening *e* will communicate with the interior of the barrel.

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

The vent herein described, composed of the cylinders A, B, and C, the valve D, spring E, and rod *h*, all constructed, arranged, and operated substantially as described and shown.

EDMUND J. BENNETT.

Witnesses:

THOS. S. SPRAGUE,
MYRON H. CHURCH.