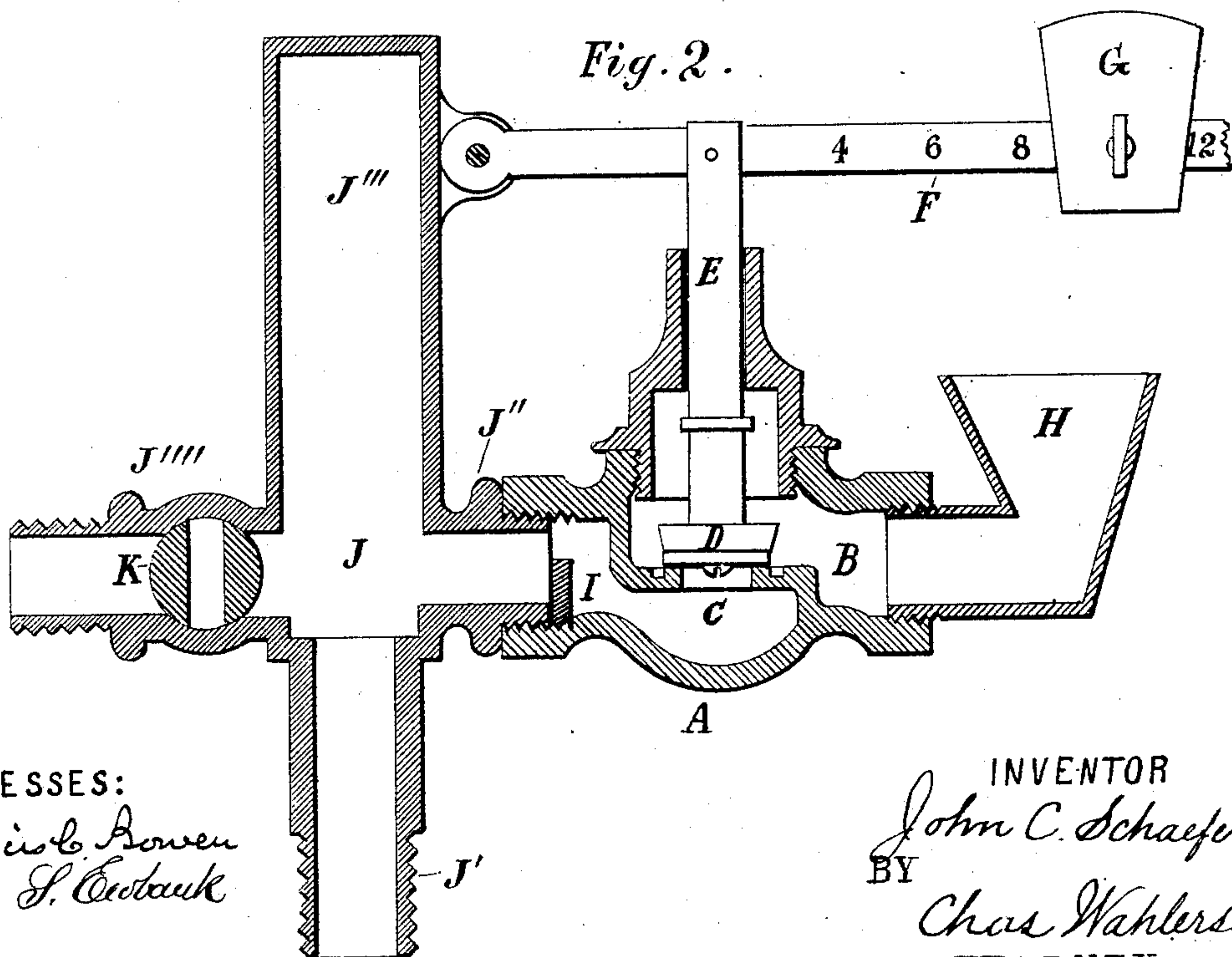
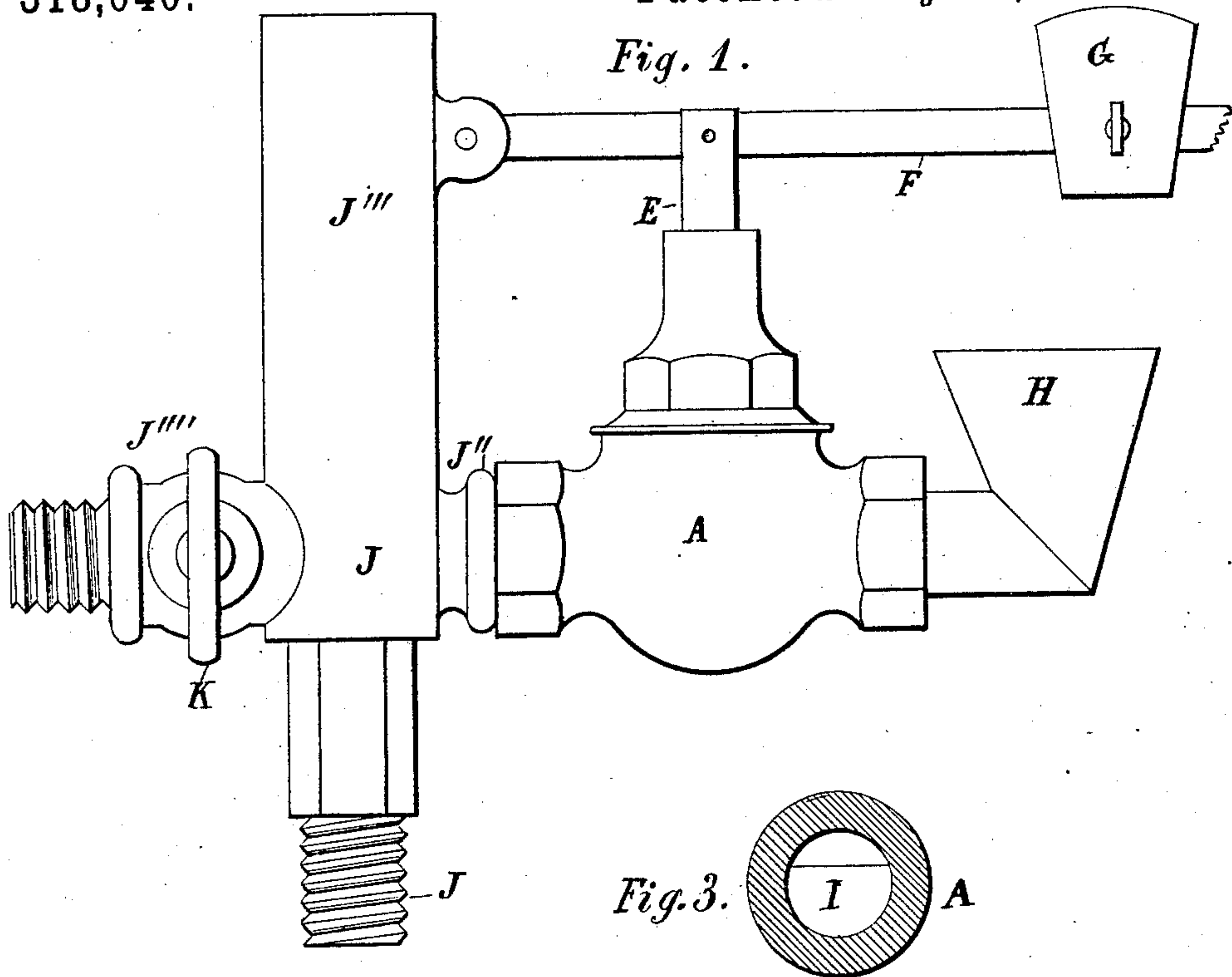


(No Model.)

J. C. SCHAEFER.
SAFETY VALVE FOR BEER CASKS.

No. 318,040.

Patented May 19, 1885.



WITNESSES:

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UNITED STATES PATENT OFFICE.

JOHN C. SCHAEFER, OF NEW YORK, N. Y., ASSIGNOR TO HIMSELF AND
JOHN A. HAGMEYER, OF SAME PLACE.

SAFETY-VALVE FOR BEER-CASKS.

SPECIFICATION forming part of Letters Patent No. 318,040, dated May 19, 1885.

Application filed October 7, 1884. (No model.)

To all whom it may concern:

Be it known that I, JOHN C. SCHAEFER, a citizen of the United States, residing at New York, in the county of New York and State New York, have invented certain new and useful Improvements in Safety-Valves for Beer-Casks, of which the following is a specification, reference being had to the accompanying drawings.

It is a well known fact that the disks of the safety-valves commonly used on shaving-casks in breweries are liable to gum and adhere to the valve-seat, thereby becoming inoperative, and rendering the casks liable to burst by accumulation of gases in the hogsheads.

The object of my invention is to overcome this difficulty in a simple and efficient manner; to which end it consists in the novel feature of construction, hereinafter described, and illustrated in the accompanying drawings, in which—

Figure 1 is a side view of a valve containing my invention. Fig. 2 is a longitudinal section thereof. Fig. 3 is a detail view of parts.

Similar letters indicate similar parts.

The letter A designates the valve-shell, having a diaphragm, B, like that of a globe-valve, in which diaphragm is formed a hole or passage, C, the edge of which constitutes the seat for a valve-disk, D, this disk being arranged on the lower end of a stem, E, engaging a lever, F, which carries a weight, G, whereby the capacity of the valve may be regulated. To the outlet-orifice of the valve-shell A is connected a cup or vessel, H, in shape like a funnel and of a height greater than the valve-seat. In applying the valve to use this cup H is supplied with water, which thence flows into the valve-shell A, thereby acting as a lubricant to the valve-seat and disk, so that the danger of gumming and insuring adhesion of the valve-disk is effectually obviated.

It is evident that any other suitable lubricant may be substituted for the water, the latter, however, possessing the advantage of being least injurious to the beer or other liquid contained in the cask, assuming that a portion of the water should find its way into the cask.

The height of the water in the valve-shell is regulated by means of a dam or gate, I, ar-

ranged in the inlet-orifice of the valve-shell A, the upper edge of this dam being on a level with or slightly higher than the valve-seat, as shown in Fig. 2, thereby causing the water to preserve that level in the shell. In the example shown both the dam I and the lubricating-cup H are screwed into the proper orifices of the valve-shell; but, if desirable, either or both may be cast with the shell, while the lubricating-cup, moreover, may be connected to the side of the shell instead of the outlet-orifice thereof.

The means employed for connecting the valve to the cask consists of a coupling, J, in shape like a cross, one portion, J', of which is partly screw-threaded to engage with a corresponding bush of the cask, while another portion, J'', is also screw-threaded to engage with the proper orifice of the valve-shell, the other or remaining portions, J''' J''', of the coupling, respectively, forming a storage-chamber, and being provided with a stop-cock, K, for transmitting the air into the hogsheads, if a pressure gets overdue from the air-pump, which will happen if a chip gets before the racking-cock; stops the stream of beer from getting out; consequently the safety-valve opens and keeps the hogshead under a continual pressure, and not liable to burst or collapse.

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

1. The combination, substantially as herebefore described, with the valve-shell, the valve-seat, and the weighted valve-disk, of the lubricating cup or vessel connected to the valve-shell, for the purpose set forth.

2. The combination, substantially as herebefore described, with the valve-shell, the valve-seat, and the weighted valve-disk, of the lubricating cup or vessel connected to the outlet-orifice of the valve-shell.

3. The combination, substantially as herebefore described, with the valve-shell, the valve-seat, and the weighted valve-disk, of the dam or gate arranged in the inlet-orifice of the valve-shell, for the purpose set forth, and the lubricating cup or vessel connected to the valve-shell.

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

Witnesses: JOHN C. SCHAEFER.

CHAS. WAHLERS,

JAS. S. EWBANK.