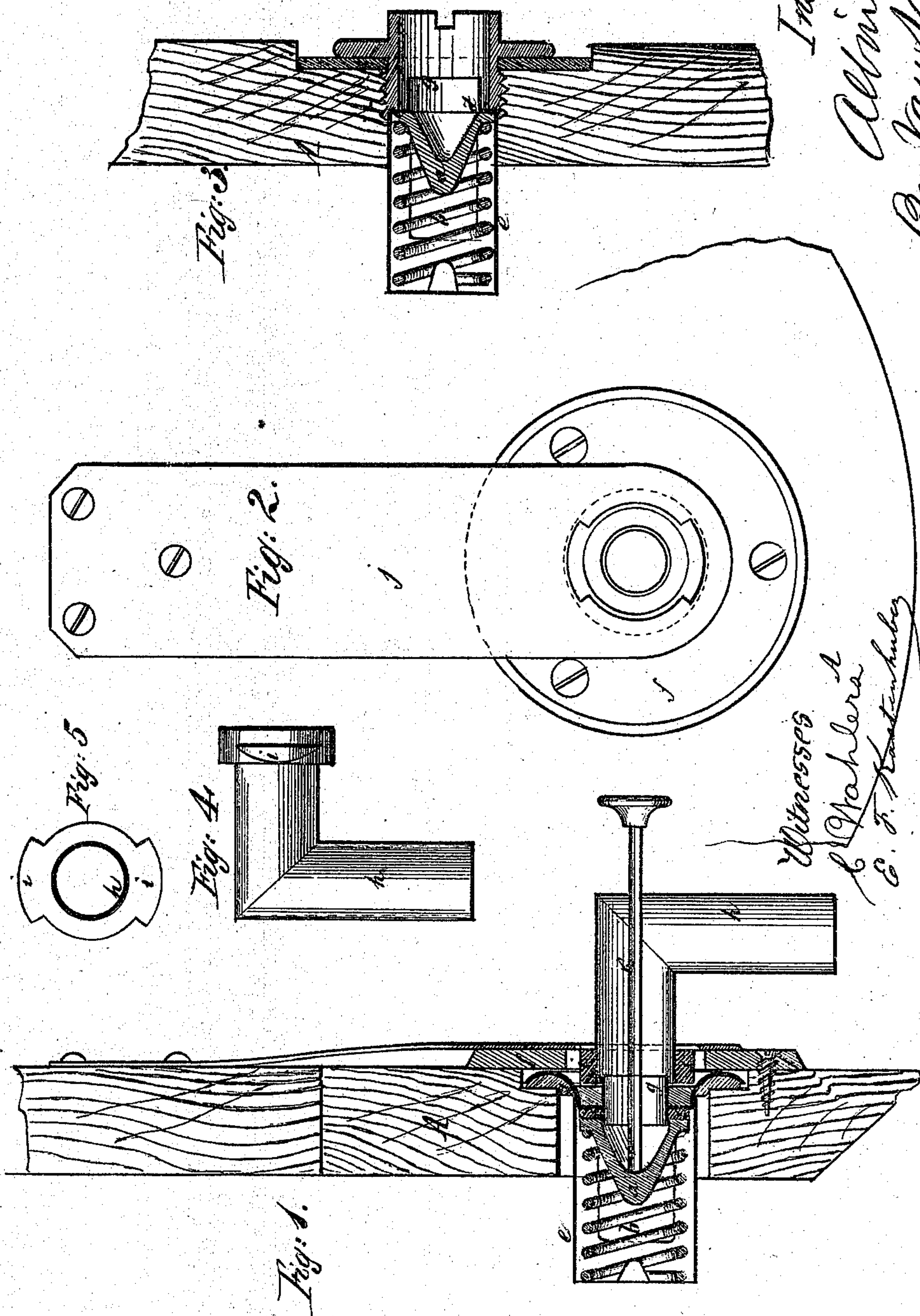


A. WARTH.  
BUNG.

No. 106,100.

Patented Aug. 2, 1870.



*Inventor*  
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# United States Patent Office.

ALBIN WARTH, OF STAPLETON, NEW YORK.

Letters Patent No. 106,100, dated August 2, 1870.

## IMPROVEMENT IN BUNGS.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, ALBIN WARTH, of Stapleton, in the county of Richmond and State of New York, have invented a new and improved Tapping-Attachment to Barrel-Heads; and I do hereby declare the following to be a full, clear, and exact description thereof, which will enable those skilled in the art to make and use the same, reference being had to the accompanying drawing forming part of this specification, in which drawing—

Figure 1 represents a transverse section of a barrel-head with my improved attachment.

Figure 2 is a face view of the same.

Figure 3 is a transverse section of a modification of the same.

Figure 4 is a detached section of the discharge-elbow.

Figure 5 is a horizontal section of the same.

Similar letters indicate corresponding parts.

This invention relates to a tapping-attachment to barrel-heads, which consists of a valve pressed up by a spring against a seat formed on the inner surface of a plate, which is securely fastened to the head of a barrel, and from which extends a spout, in such a manner that, when the valve is pressed back against the action of its spring, the contents of the barrel are free to discharge.

With this spout is combined a discharging-elbow, provided at its bottom end with projecting lugs, capable of engaging with a retaining-spring, in such a manner that, by securing said elbow in position, the liquid discharging from the barrel is carried clear off from the face of the head.

In the drawing—

The letter A designates a barrel-head, to which is secured my tap, which consists of a valve, *a*, that is forced up by means of a spring, *b*, against a seat, *c*, formed on the inner surface of a plate, *d*.

The spring *b* is inclosed in an open tube, *e*, projecting from the plate *d*, and said plate is fastened to the outer face of the barrel-head by a flange-ring, *f*, and by screws or other equivalent means.

Said plate may, for instance, be constructed as shown in fig. 3, so that it can be screwed into the barrel-head, the joint between the head and the plate being rendered tight by a suitable packing.

From the outer surface of the plate *d* projects the

spout *g*, through which a pin can be introduced, for the purpose of forcing the valve back from its seat.

The valve is made cup-shaped, as shown in figs. 1 and 3, so that the pin used for forcing the same off from its seat will act on the valve at a point below its working-face, and thereby said valve is prevented from being thrown in an oblique position, or in such a position where it would be liable to bind in the tube *e*.

In order to prevent the liquid, while discharging, from running down on the face of the barrel-head, I apply an elbow, *h*, which fits over the spout *g*, being provided at its inner end with lugs *i*, which engage with the retaining-spring *j*, as shown in fig. 1.

This spring is fastened to the face of the head, and it is provided with a hole of such a shape that the lugs *i* can be introduced when the elbow is placed in the proper position, and, by turning said elbow, the lugs catch under the spring, and the inner edge of the elbow is pressed up tight against a seat formed round the spout *g*.

In the elbow works a pin, *k*, which serves to press the valve back from its seat.

By this arrangement, a barrel-head is obtained which carries its own tap, said tap being of such construction that it adds but a trifle to the cost of a barrel, while it allows of drawing off the contents of the barrel at any moment, thereby saving the use of an ordinary tap, and the constant renewal of corks or stoppers usually required for stopping up the tap-holes.

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

1. The plate *d*, with its seat *c*, spout *g*, and tube *e*, in combination with the valve *a*, spring *b*, and flanged ring *f*, the whole arranged and operating as herein shown and described.

2. The arrangement of the pin *k*, working in the elbow *h*, with the plate *d*, spout *g*, tube *e*, valve *a*, spring *b*, and flanged plate *f*, substantially as herein shown and described.

3. The combination of the elbow *h* and retaining-spring *j* with the barrel-head and tap, constructed substantially as herein set forth.

ALBIN WARTH.

Witnesses:

W. HAUFF,

E. F. KASTENHUBER.