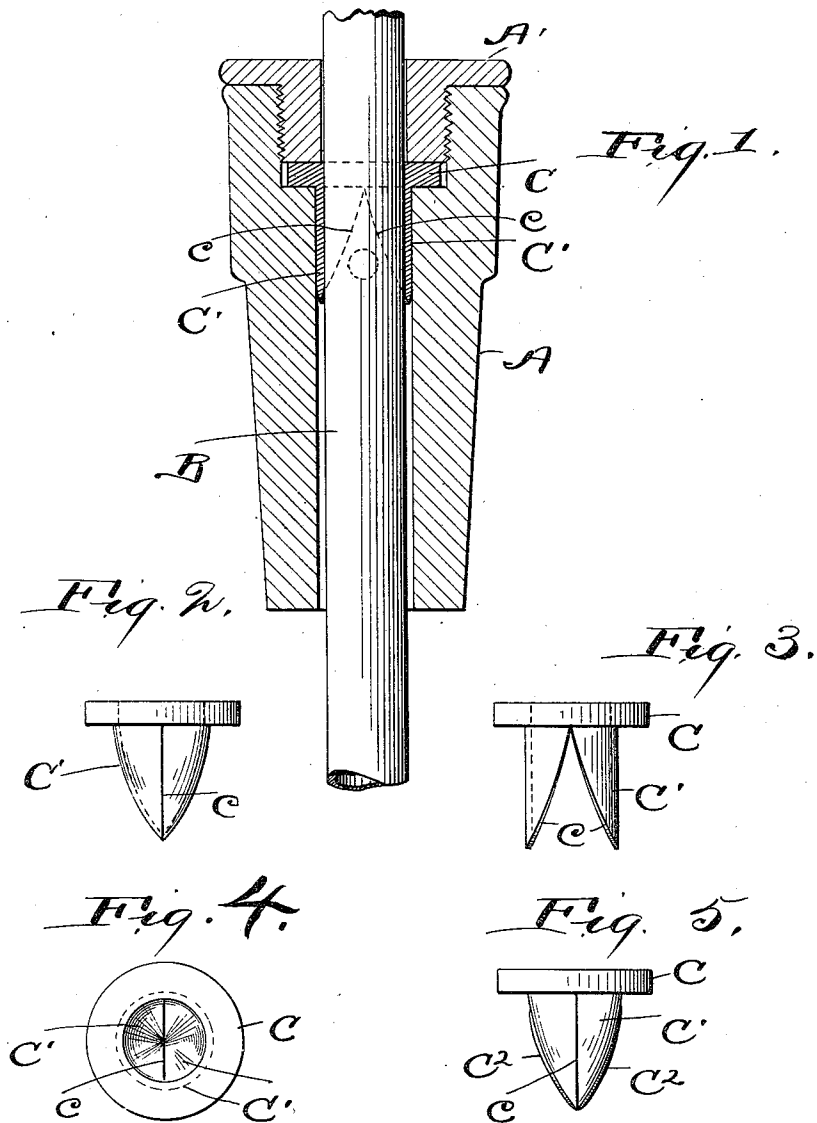


(No Model.)

W. E. ELLSWORTH.
COMBINED PACKING AND VALVE.

No. 568,669.

Patented Sept. 29, 1896.



Witnesses.
E. B. Gilchrist.
Ella O. Tilden

Inventor.
William E. Ellsworth
By Leggett, Lynch, Doney & Dornally,
his Attorneys.

UNITED STATES PATENT OFFICE.

WILLIAM E. ELLSWORTH, OF CLEVELAND, OHIO, ASSIGNOR OF ONE-HALF
TO BYRON J. PRATT, OF SAME PLACE.

COMBINED PACKING AND VALVE.

SPECIFICATION forming part of Letters Patent No. 568,669, dated September 29, 1896.

Application filed February 10, 1896. Serial No. 578,643. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM E. ELLSWORTH, of Cleveland, Cuyahoga county, Ohio, have invented certain new and useful
5 Improvements in a Combined Packing and Valve; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it pertains to make
10 and use the same.

My invention relates to an improved combined packing and valve for beer-pumping and the like apparatus; and it consists in the peculiar formation of said combined packing
15 and valve whereby the tapping-tube may be inserted into the barrel or keg without the lower end of the bung being plugged, all of which will be more clearly hereinafter set forth and claimed.

20 In the drawings, Figure 1 is a view in longitudinal vertical section of a bung embodying my invention, showing my improved combined packing and valve. Figs. 2, 3, and 4 are views of my improved combined packing
25 and valve, showing its construction more clearly and representing it in different positions; and Fig. 5 represents my improved combined packing and valve provided with side ribs for reinforcing the same.

30 A represents a bung, of usual or preferred construction, having an opening through it for the passage of the tube B.

A' represents the bung-cap, which is constructed so as to engage the upper end of the
35 bung A and form, in connection with the upper end of the bung, a chamber for the reception of the packing.

C represents my improved packing, which is made of yielding or elastic material, preferably of rubber, and thick enough so that
40 by pressure against one or both of its faces its central opening will be diminished and caused to tightly hug the tube B.

Extending downward from the packing C
45 is a hollow conical projection C', which is slit or cut at c into two equal halves, the said slit extending to the packing C, so as to allow it to readily open when the tube B is pushed downwardly, as shown in Figs. 1 and
50 3, and embrace the tube. By thus splitting the said conical projection C' to the bushing

I obtain an opening sufficiently large to permit the passage of the tube with lips or halves extending but a short distance into the barrel or keg; also, by making said conical portion short and forming it with a pointed or
55 V-shaped rather than a rounded apex the two halves will embrace the tube more closely when it is inserted for the purpose of withdrawing the contents. Preferably the conical
60 portion is slit or bisected directly through its apex in order that the pressure on the two halves may be equal, thus closing the opening more effectually when the tube is withdrawn, as shown in Figs. 3, 4, and 5.

The object of the conical extension C' is to do away with plugging or corking the lower end of the bung when about to tap or bung
65 a fresh keg of beer. It is well known that beer when first tapped contains more or less gas, and hence it is always under pressure, and would splash or force itself out if an opening were left through the bung, as would
70 be the case when the tube B is withdrawn, as is necessary before a fresh keg of beer is tapped, and hence the necessity of closing
75 the opening through the bung before beginning the operation. As heretofore stated, this had been done by plugging the lower end of the bung by means of a valve or with
80 a cork and after the bung was inserted and driven home the tube B was pushed downward and the valve opened or the cork driven out.

With my improved device the tapping-tube
85 is simply inserted through packing c and valve c', whereby a tight joint is formed around the same. It will also be seen that by means of my device the tube, when necessary, may without any inconvenience be
90 withdrawn after having been inserted.

In Fig. 5 I have shown the conical portion C' of the packing C provided with two ribs C² C², one on each lip or side. The object of
95 these ribs is to add to the resiliency of these parts and reinforce them when considered necessary.

What I claim is—

1. The combination in a combined packing and valve of the bushing which forms the
100 packing for the tapping-tube; a conical-shaped portion integral therewith provided

with an approximately V-shaped apex and bisected by a split extending to the said bushing, the whole being formed of rubber or similar elastic material; a bung for receiving the packing and conical portion and a tapping-tube adapted to pass through the slit in said conical portion and be clamped by the bushing, substantially as described.

2. In a combined packing and valve for a beer-keg, the combination with a bushing which forms the packing for the tapping-tube and a conical-shaped portion integral with said bushing, the said conical portion composed of two symmetrical closely-fitting halves or lips independent of each other, and

each provided with a reinforcing-rib, the whole formed of rubber or similar elastic material; of a bung for receiving the packing or bushing and the conical portion integral therewith, and a tapping-tube adapted to pass through the slit in the depending portion and be clamped by the bushing, substantially as shown and described.

In testimony whereof I sign this specification, in the presence of two witnesses, this 6th day of January, 1896.

WILLIAM E. ELLSWORTH.

Witnesses:

W. E. DONNELLY,

ALBERT M. AUSTIN