

No. 879,983.

PATENTED FEB. 25, 1908.

H. J. SANDELL.  
TAP AND BUSH FOR BEER KEGS.  
APPLICATION FILED APR. 20, 1907.

Fig. 2

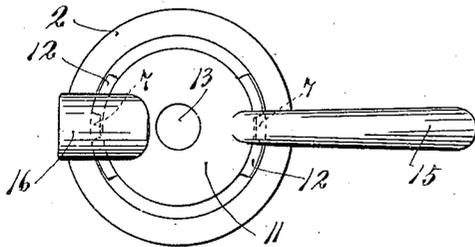


Fig. 3.

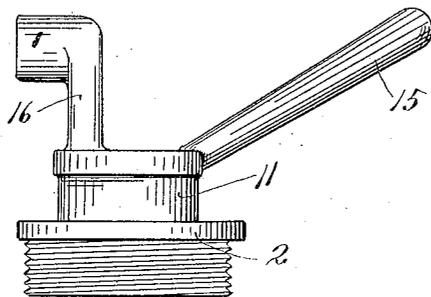


Fig. 4.

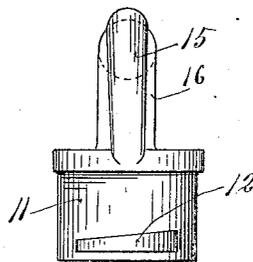


Fig. 1

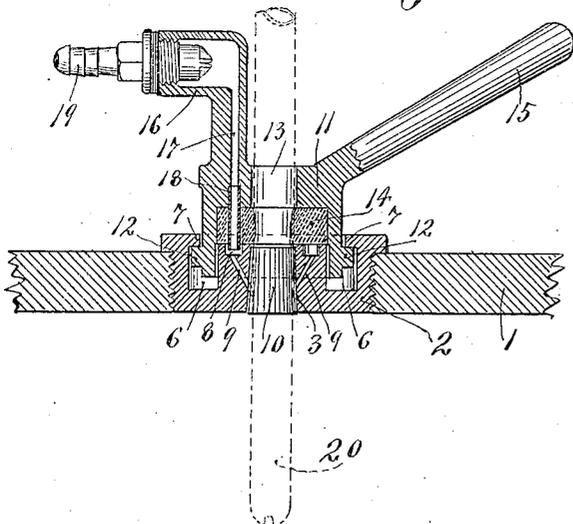
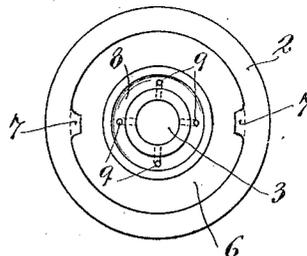


Fig. 5



Witnesses.  
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Harry J. Sandell.  
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# UNITED STATES PATENT OFFICE.

HARRY J. SANDELL, OF MINNEAPOLIS, MINNESOTA.

## TAP AND BUSH FOR BEER-KEGS.

No. 879,983.

Specification of Letters Patent.

Patented Feb. 25, 1908.

Application filed April 20, 1907. Serial No. 369,236.

*To all whom it may concern:*

Be it known that I, HARRY J. SANDELL, a citizen of the United States, residing at Minneapolis, in the county of Hennepin and State of Minnesota, have invented certain new and useful Improvements in Taps and Bushes for Beer - Kegs; 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 appertains to make and use the same.

My invention has for its object to provide an improved "tap" and "bush" especially adapted for application to beer kegs, and to this end it consists of the novel devices and combinations of devices hereinafter described and defined in the claims.

The invention is illustrated in the accompanying drawings, wherein like characters indicate like parts throughout the several views.

Referring to the drawings, Figure 1 is a vertical section taken centrally through the improved tap and bush and a portion of the keg to which it is applied, some parts being shown in full. Figs. 2 and 3 are detail views respectively in plan and side elevation, showing the tap and bush removed from the keg. Fig. 4 is a detail view in elevation, showing the tap removed from the bush; and Fig. 5 is a plan view of the bush, the tap being removed therefrom.

The numeral 1 indicates the keg, a portion only of which is shown. Into a suitable bung hole in the side of the keg is screwed an externally threaded bush 2. This bush 2 is provided with an axial passage 3 that flares toward the inner end of the bush. In its face surrounding the axial passage 3 the bush is formed with a deep annular channel 6. At the outer portion of its rim said bush is formed with cam engaging lugs 7 that project into the said channel 6, and as shown are located diametrically opposite to each other. In the outer extremity of the hub which is formed between the axial passage 3 and channel 6 is an annular groove 8 from which a multiplicity of small air ducts 9 open into the intermediate portion of the inwardly flaring axial passage 3. The said passage 3 is normally tightly closed by a cork 10 which is forced thereinto under high compression.

The so-called "tap" portion of the device includes a cup shaped head 11 which is adapted to be freely passed into the annular groove 6 and around the hub portion of the bush 2

and is provided with inclined faced cam lugs 12 adapted for a camming engagement with the lugs 7 of said bush. The said cap 11 is provided with an axial passage 13 that aligns with the axial passage 3 of the bush, and within said cap is a compressible gasket or packing 14 which has an axial passage that aligns with the said passages 3 and 13. As preferably constructed, this cap 11 is cast integral with an operating lever 15 and a hollow neck portion 16, through which latter compressed air is adapted to be delivered into the keg when the device is applied thereto. As shown, the air supply duct 17 of said neck 16 has a tubular delivery portion 18 that extends through the packing 14 and delivers directly into the annular air duct 8 when the device is applied in working position and regardless of the exact rotary position which the tap may occupy when applied. Compressed air from a suitable source of supply is adapted to be delivered through a hose (not shown) into a coupling 19 which, as shown, is screwed into the receiving end of the neck 16.

The tap is adapted for application to the bush when the cam lugs 12 are turned out of line with the cam engaging lugs 7 of the bush; and when the said cam lugs are forced into the channel 6 beyond the said lugs 7 and the tap is rotated so as to force the inclined faces of the lugs 12 against the said lugs 7, the packing 14 may be tightly pressed against the hub of the bush as illustrated in Fig. 1. In practice it is desirable to first thus apply the tap and to but slightly compress the packing 14; then to insert the usual outlet tube 20, indicated by dotted lines in Fig. 1, through the passages 3 and 13 and through the bush, thereby forcing the cork 10 into the keg; and then by further rotary movement of the tap to more tightly close the joints between the parts by further compression of the said packing 14.

By reference to Fig. 1 it will be noted that because of the flare of the passage 3 in the bush, the inner extremities of the air ducts 9 are left open when the tube 20 is inserted, so that the air may freely pass into the keg from the air supply device.

The device above described has in practice been found highly efficient for the purposes had in view. It is very simple, and of small cost, has few parts to get out of order and may be very quickly applied to or removed from a keg.

What I claim is:

1. A bush 2 having an inwardly tapered axial passage 3, annular groove 6, inwardly projecting lugs 7, annular air duct 8, in the  
5 outer extremity of its hub portion, and air ducts extending from said duct 8 to the intermediate portion of said flaring passage 3, in combination with a cap 11 insertible into the groove 6, of said bush, and provided with  
10 cam lugs 12 engageable with the said bush lugs 7, a lever 15 rigid with said cap, an air conducting neck 16 also rigid with said cap 11, an annular packing 14 within said cap 11, the said cap having a tube passage 13, and a  
15 sleeve extension 18 from the air passage of said neck 16 extending through said packing 14 and leading to the annular air duct 8 of said bush, substantially as described.

20 2. The combination with a bush adapted for application to a keg and having an axial

tube passage and an eccentric air supply duct, of a cup-shaped head or cap having interlocking engagement with said bush and provided with an axial tube passage and an eccentrically located air duct, and a packing  
25 ring within said head and arranged in itself to form a liquid tight joint between said bush, head and a tube which is adapted to be inserted through the axial passages thereof, the air duct of said cap having a tubular ex-  
30 tension passed through said packing ring and communicating with the air duct in said bush, substantially as described.

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

HARRY J. SANDELL.

Witnesses:

MALIE HOEL,

F. D. MERCHANT.