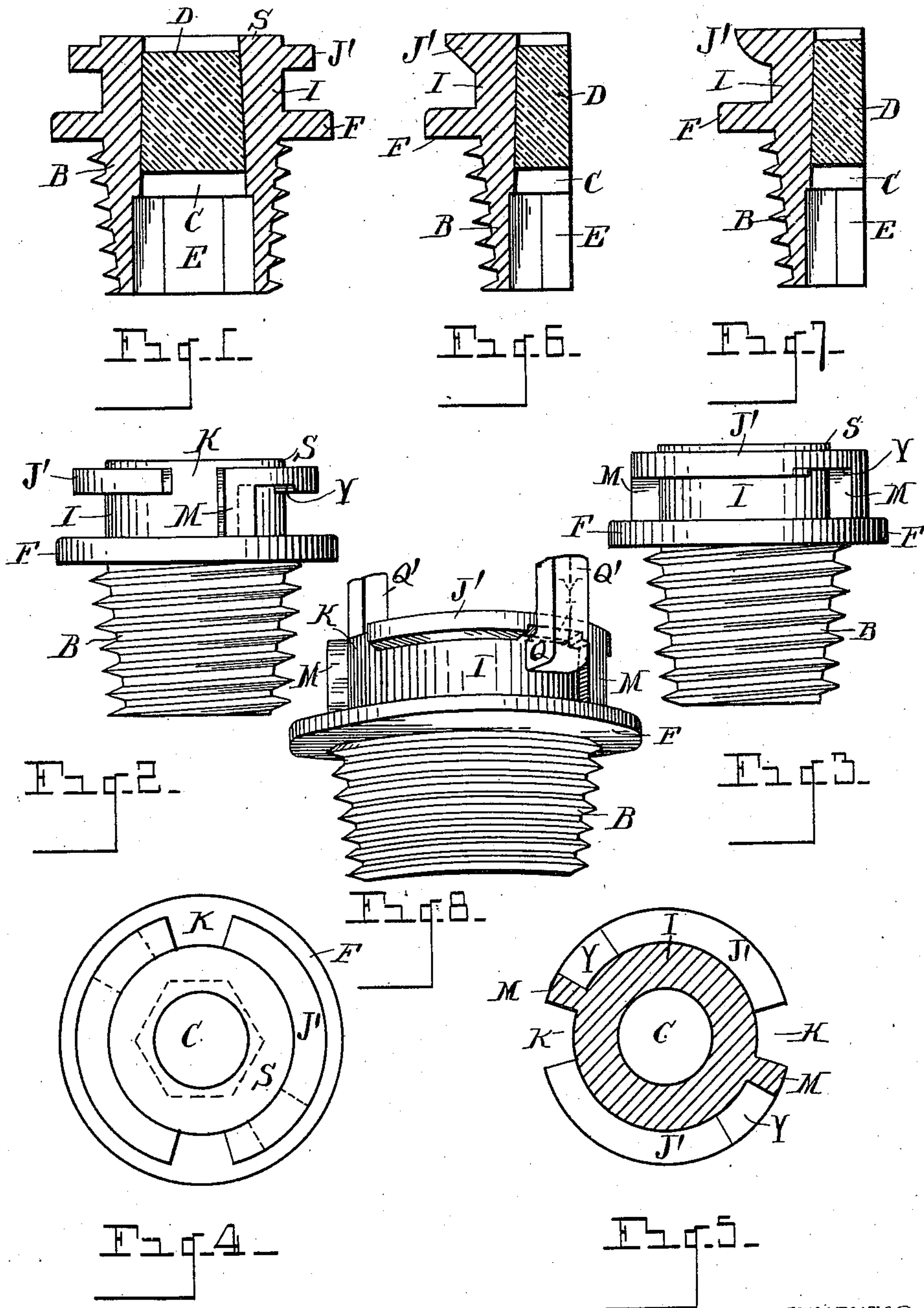


(No Model.)

E. C. POST.  
TAP OR BUNG HOLE BUSHING.

No. 576,611.

Patented Feb. 9, 1897.



WITNESSES

*O. B. Caruige*

*M. A. Martin*

INVENTOR

*Edward C. Post*

By *his* Attorney

*Novell S. Wright*



# UNITED STATES PATENT OFFICE.

EDWARD C. POST, OF MONROE, MICHIGAN.

## TAP OR BUNG-HOLE BUSHING.

SPECIFICATION forming part of Letters Patent No. 576,611, dated February 9, 1897.

Application filed September 7, 1895. Serial No. 561,824. (No model.)

*To all whom it may concern:*

Be it known that I, EDWARD C. POST, a citizen of the United States, residing at Monroe, in the county of Monroe and State of Michigan, have invented certain new and useful Improvements in Tap or Bung-Hole Bushings, of which the following is a specification, reference being had therein to the accompanying drawings.

My invention consists in the construction of a tap or bung-hole bushing to be used for making tight coupling connection with certain coupling devices for the purpose of drawing off beer, ale, or other liquids from packages or barrels.

In the drawings, Figure 1 is a vertical central longitudinal section through my improved bushing. Fig. 2 is a side view of the bushing. Fig. 3 is an end view thereof. Fig. 4 is a top view of the same. Fig. 5 is a horizontal section through the upper part of the bushing. Figs. 6 and 7 are partial longitudinal sections of my bushing, showing different shapes that can be used for the upper flange. Fig. 8 is a view in perspective showing portions of a coupling device engaged with the bushing.

B is a threaded bushing, to be screwed into a tap or bung-hole of a barrel or package, having a cylindrical aperture C, adapted to be closed by a cork or bung D, which may be forced into the barrel or package by a tapping-tube or other device. The lower portion E of the aperture C is made hexagonal or other shape for the purpose of fastening therein a wrench or tool, with which the bushing is screwed home in the package or barrel.

The bushing B has at some distance from the top a flange F, which may have any desired shape, and it may, if desired, be screwed into a counterbored hole in the package or barrel.

The upper part I of the bushing has at its upper end a flange J', which may have one or more slots K, to admit of dogs or jaws Q of a coupling device Q' to pass through and be turned under the flange J' for the purpose of securing the coupling device solidly to the bushing. A portion of the coupling device Q', with one of its jaws Q, is shown in Fig. 8. If the dogs or jaws of the coupling device are so constructed as to clamp or grasp over the

flange J', the slots K can be dispensed with. It will be seen that the flange J' is of the same sectional area throughout, said flange not being circumferentially inclined on its under face.

Whenever it is desirable that the coupling device should not turn on the bushing after it has been securely fastened thereto, the lower edge or face of the flange J' should be provided with notches or recesses Y, into which the dogs or jaws of the coupling device are engaged before the final tightening thereof is completed. In such case and when the flange J' has the slots K, the stops M should be provided at or near the notches Y, so that the dogs or jaws of the coupling device, when being turned under the flange J', may not slip by the notches Y to the other slots K. This construction, it will be observed, will effectually prevent any slipping or turning of the coupling device on the bushing when tightened into position.

Whenever the flange J' has the slots K, the upper surface of the extension I should have the seat S slightly raised above the face of the flange J', so that when the surface thereof is turned off for making a smooth packing-joint the tool or cutter will not come in contact with the corners of the slots K, causing the tool to chatter and thereby producing a rough seat for the packing. Raising the seat S in this manner for facing off also prevents the tool or cutter from wearing away rapidly.

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

1. A tap or bung-hole bushing for making a tight coupling connection, having a threaded body B adapted to be screwed into a barrel or package, and an upper extension I, provided with a laterally-projecting flange J', said flange constructed with a recess Y projecting upward on its under edge to engage a coupling device and hold the said device from turning in either direction on the bushing, and a stop adjacent to said recess, substantially as set forth.

2. The combination of a tap or bung-hole bushing having a threaded body adapted to be screwed into a barrel or package, and an upper extension I, provided with a laterally-projecting flange J', formed with recesses Y projecting upward on its under edge, and a



coupling device extending downward in under said flange and upwardly engageable in said recesses, said flange provided with stops adjacent to said recesses to limit the movement 5 of the coupling device and cause it to register with said recesses in engaging the coupling device with the flange of the bushing, substantially as and in the manner described.

3. A tap or bung-hole bushing for making a 10 tight coupling connection, having a threaded body B adapted to be screwed into a barrel or package, provided with a flange F and an upper extension I provided with a laterally-projecting flange J', said latter flange constructed with recesses Y projecting upward 15 on its under edge to engage a coupling device, and with stops M extending downward from the lower face of the flange J' to the flange F adjacent to said notch to limit the 20 movement of the coupling device and cause it to register with said recesses in engaging

the coupling device with the flange of the bushing, substantially as and in the manner described.

4. A tap or bung-hole bushing for making a 25 tight coupling connection, having a threaded body B adapted to be screwed into a barrel or package, and an upper extension I provided with a laterally-projecting flange J', said flange constructed with a slot K to admit 30 the dog or jaw of a coupling to pass there-through and be turned under the flange and enter recesses Y on its under side, said bushing provided with stops below said flange adjacent to said recesses to limit the movement 35 of said dogs or jaws, substantially as set forth.

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

EDWARD C. POST.

Witnesses:

JOHN E. MOLONEY,  
CHARLES SCHWARTZ.