

(No Model.)

W. SENG.

BUNG AND BUSH.

No. 276,902.

Patented May 1, 1883.

Fig. 1.

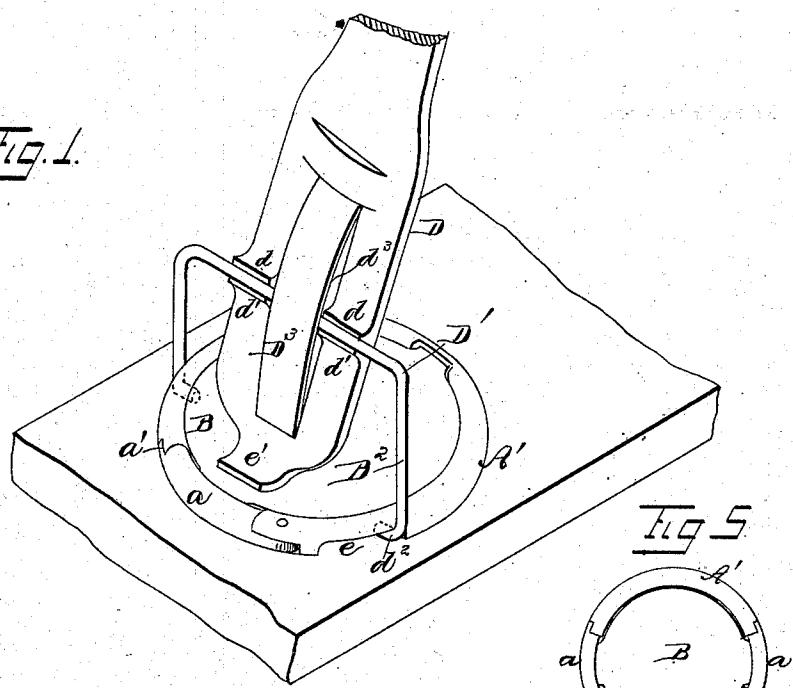


Fig. 5

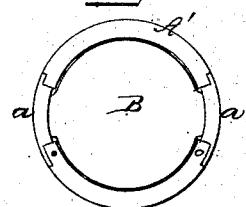


Fig. 2.

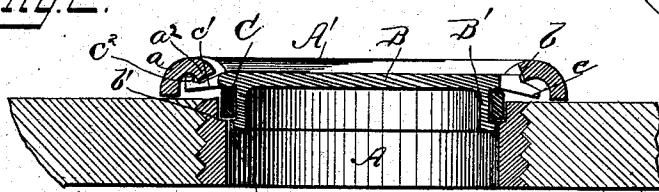


Fig. 3.

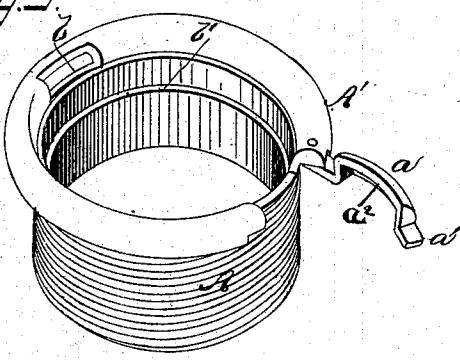
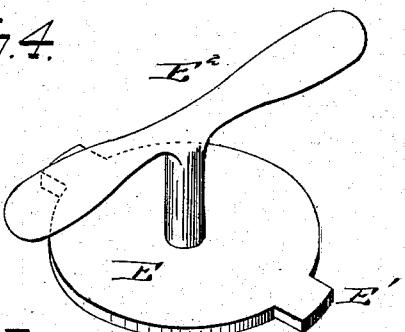


Fig. 4.



INVENTOR.

Witnesses:

H. C. & Arthur,  
Carman

Wendelin Seng.

for H. Harrison  
Attorney.

# UNITED STATES PATENT OFFICE.

WENDELIN SENG, OF CHICAGO, ILLINOIS.

## BUNG AND BUSH.

SPECIFICATION forming part of Letters Patent No. 276,902, dated May 1, 1883.

Application filed September 16, 1882. (No model.)

*To all whom it may concern:*

Be it known that I, WENDELIN SENG, a citizen of the United States of America, residing at Chicago, in the county of Cook and State 5 of Illinois, have invented an Improvement in Bungs and Bushings, of which the following is a specification, to wit:

My invention relates to bungs and bushings; and it consists in certain peculiarities of construction, which will be hereinafter more fully described.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe 15 its construction and operation, referring to the accompanying drawings, in which—

Figure 1 is a perspective view of my bung and bushing inserted in a barrel-stave and the bung-wrench applied. Fig. 2 is a central vertical section through the bung and bushing. Fig. 3 is a perspective view of my bushing. Fig. 4 is a similar view of my bush-wrench. Fig. 5 is a plan view of a modification of my bushing.

Similar letters denote similar parts throughout the different views.

A represents a bushing screw-threaded upon its outer side for insertion in the barrel. This bushing is provided with a flange, A', around 30 its upper end, which is cut away on one side for a short distance and replaced by the hinged section a. This section is hinged to the flange A', at one end and at the other is provided with an offset, a', which passes under the edge 35 of the flange, as seen in Fig. 1. The piece a is provided with a lip, a<sup>2</sup>, upon its inner under edge for engagement with the bung, as will be hereinafter more fully understood. Upon the side opposite the hinged section a the flange A' is cut out or recessed to receive an arm on 40 the bung, as seen at b, Figs. 2 and 3. The inner sides of the bushing are straight, and provided near the top with an annular shoulder, b', as also seen in Figs. 2 and 3.

The bung B is straight-sided, and is formed with a downwardly-projecting flange, B', around the lower edge of which is a lip or flange, b<sup>2</sup>, which supports and keeps in place a circular washer, C, of rubber or other suitable packing material. The flat top of the bung B is formed 50 with two arms, c c', directly opposite each other, the former of which is inserted in the opening

b, and the latter is provided with a lip, c<sup>2</sup>, across its outer end, which is engaged with and held in position by the hinged section a of the flange 55 A, as seen in Fig. 2.

D represents a bung-wrench adapted to insert the bung just described, and constructed as follows: Between lugs d d' on the face of the wrench D is pivoted a stout wire or rod, 60 D', having its arms D<sup>2</sup> turned downward and their ends d<sup>2</sup> turned in toward each other to form hooks, the use of which will be presently seen. The wrench D is slotted down its center, and provided with a spring-plate, D<sup>3</sup>, which 65 has its ends secured in the ends of the slot d<sup>3</sup>, and passes over the wire or rod D', as shown by Fig. 1. This rod is flattened upon one side, which lies against the spring-plate D<sup>3</sup>, and always returns the hooked rod to the proper 70 position for use. The lower end of the wrench D extends downward as far as the hooked arms D<sup>2</sup>, and terminates in a toe, e', which bears upon the bung. The flange A' on the bushing is cut away at e upon each side, so 75 that the hooks d<sup>2</sup> d<sup>2</sup> may be readily engaged with it.

E represents a flat plate, forming the bush-wrench, provided with two oppositely-extending arms, E', and a handle, E<sup>2</sup>, as seen in Fig. 4. 80

The bushing A is screwed into the barrel by placing the wrench E in it, with its arms E' resting in the notch b and under the hinged section a. After this the bung B is placed in the bushing, with its arm c in the notch b and 85 its arm c' resting in the opening left, when the section a of the flange A' is swung outward, as seen in Fig. 3, the rubber washer C resting on the annular shoulder b' of the bush. The wrench is now placed in position by drawing 90 the hooked arms D<sup>2</sup> under the flange A' in the notches e and the toe of the wrench resting on the bung. By now raising the upper end of the wrench the packing C is compressed, the bung is forced into the bushing, and the hinged 95 section a being closed, its lip or offset a<sup>2</sup> engages with the lip c<sup>2</sup> on the arm c', and holds it firmly in place, the expansion of the ring C serving to keep the parts locked together. It will be observed that the bung B is lower than 100 the upper edge of the bushing A, and thus cannot come in contact with anything to loosen it. This device forms a simple and secure bung and bushing, which is inexpensive, and

cannot get loosened during the handling of the barrel. The bushing and bung are both covered with a coating of tin or other similar metal, which will prevent their rusting or imparting any disagreeable taste to the contents of the barrel.

Fig. 5 represents a bushing provided with a hinged section upon each side, which in some cases may be preferred, and in this case both 10 the arms  $c$  and  $c'$  on the bung are provided with locking-lips, as already described.

It will be understood that I do not make claim at this time to the wrenches herein described, such being reserved for a future application.

Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. A barrel-bushing provided with an annular flange recessed upon one side and cut out on the other and replaced by a hinged section, substantially as herein shown and described.
2. A bushing provided with a flange having

one or more hinged sections for engagement with arms on the bung, substantially as and for the purpose set forth.

3. The bushing A, having an annular flange, provided with one or more hinged sections, in combination with a bung provided with arms for engagement with the hinged sections of the flange, substantially as and for the purpose set forth.

4. The bushing A, formed with a shoulder,  $b'$ , and a flange, A', having a recess or notch,  $b$ , upon one side, and a hinged section,  $a$ , upon the other, having a lip,  $a^2$ , in combination with the bung B, having arms  $c$   $c'$ , the latter having a locking-lip,  $c^2$ , and the packing-ring C, substantially as and for the purpose set forth.

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

WENDELIN SENG.

Witnesses:

J. E. STEVENSON,  
CHAS. KRESSMANN.