

W. Boynton,

Burg.

N<sup>o</sup> 61,993,

Patented Feb. 12, 1867.

Fig. 1.

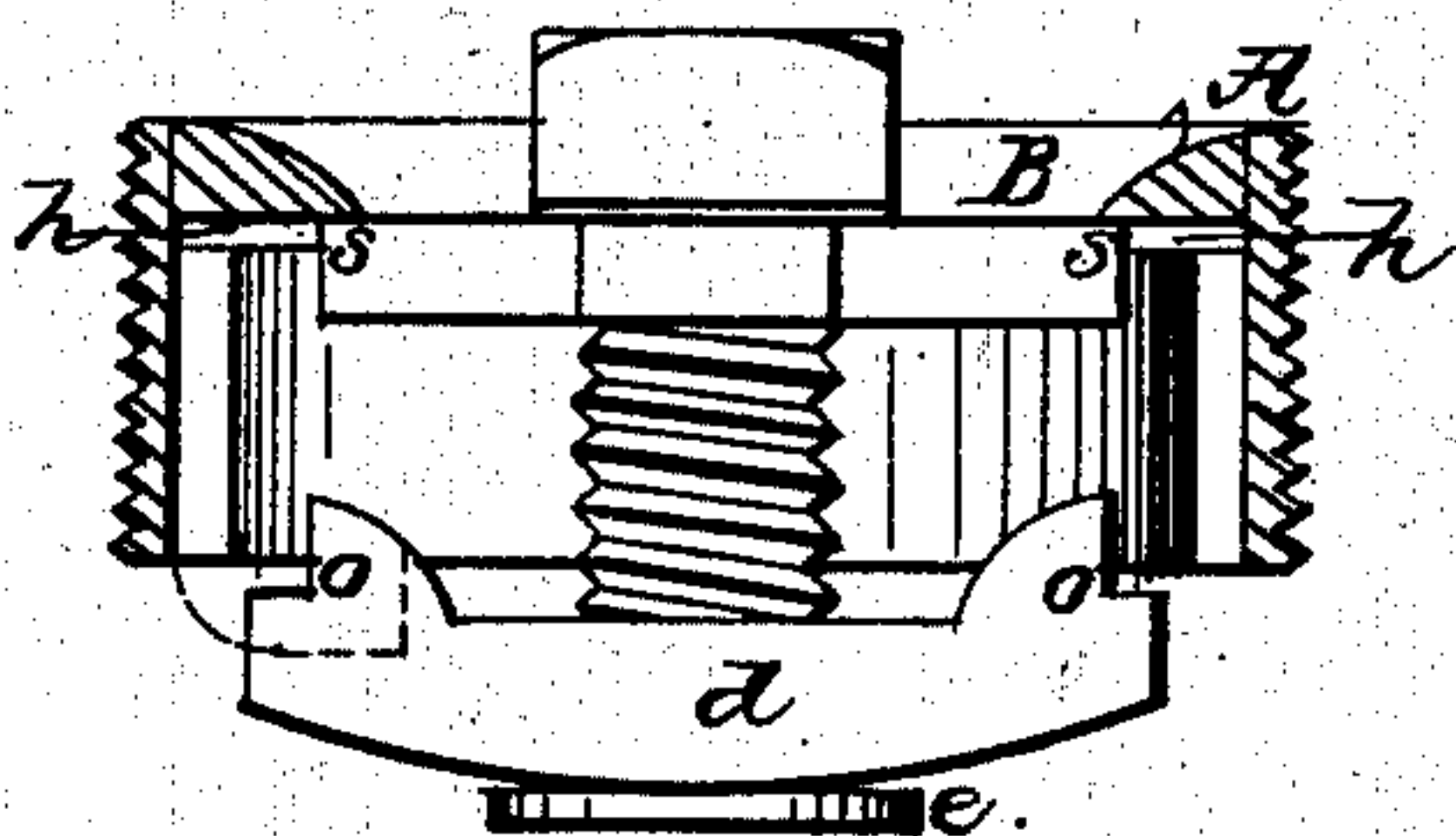
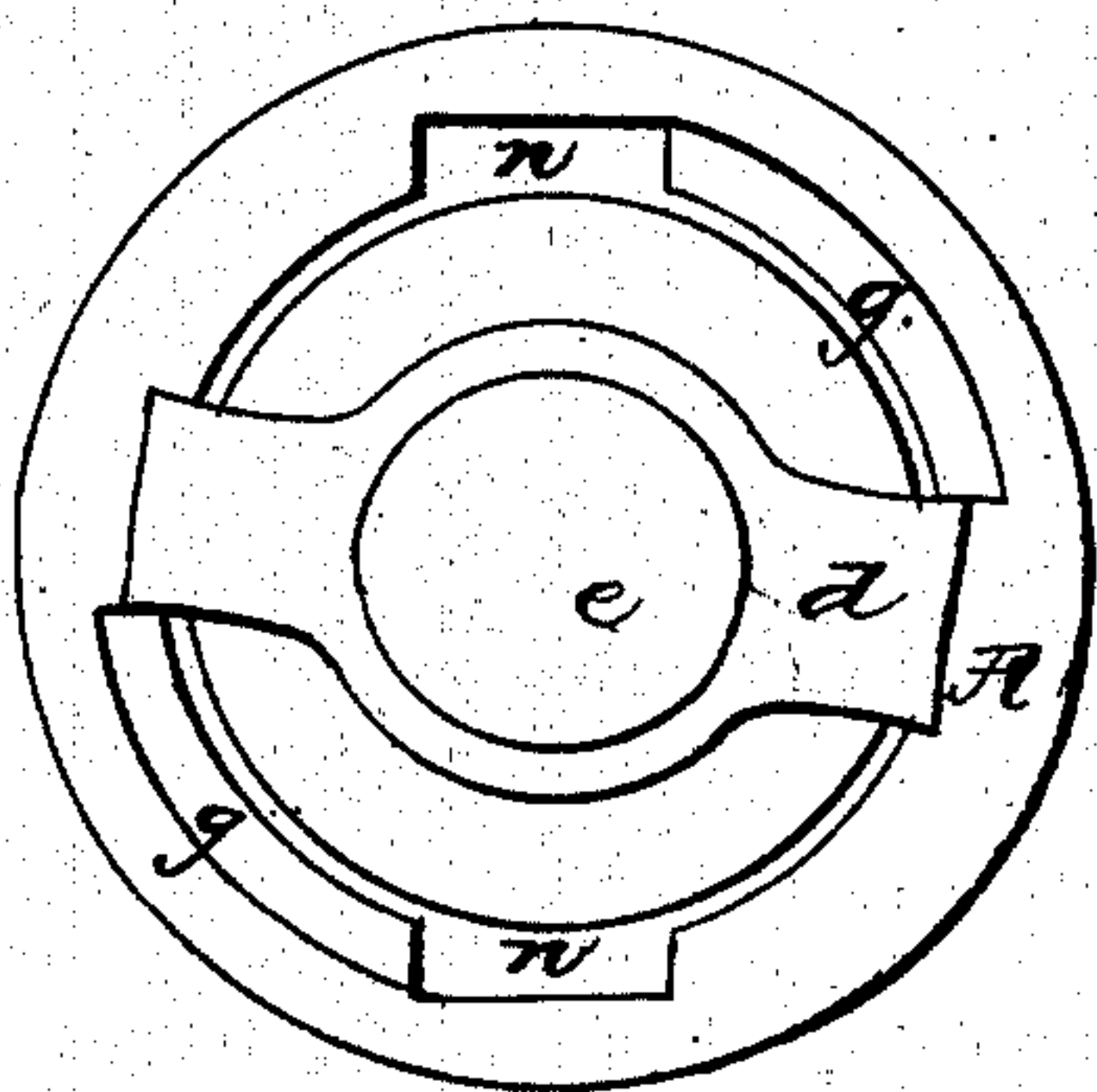


Fig. 2.



Witnesses:

A. Pfeiffer  
J. Lehmann.

Inventor:

Wm Boynton  
per T. H. Aliphanon Atty.



# United States Patent Office.

WILLIAM BOYNTON, OF AUBURN, NEW YORK.

Letters Patent No. 61,993, dated February 12, 1867.

## IMPROVEMENT IN METAL 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, WILLIAM BOYNTON, of the city of Auburn, and State of New York, have invented certain new and useful improvements in Combined Metallic Bung-Holes and Bungs. I hereby declare that the following is a true, full, and exact description of the same, reference being had to the accompanying drawings and to the letters of reference marked thereon. In the drawings annexed, which make a part of this specification—

Figure 1 represents a vertical section of my invention, exhibiting a side elevation of the screw.

Figure 2 is a plan view of the same, reversed.

The letter A designates the external case of a bung having a screw-thread cut on its outer circumference for the purpose of inserting it securely in a hole made in the barrel, and can be easily removed when the barrel is empty. The case A has a circular opening or bung-hole through it. This hole is sufficiently large to leave about the sixteenth of an inch of solid metal at the top of A, the same thickness extending down to the point or shoulders, and then widens to about a quarter of an inch, and continues this thickness down to the bottom of A. From the points to the bottom of case A two indentations, *n*, are made, for the purpose of receiving the oblong nut *d*, as hereinafter described. B represents a metal disk, which constitutes the bung for stopping the hole through the case A. Through disk B a hole is made in its centre sufficiently large to allow the screw C to pass unobstructed. The screw C, after being passed through disk B, enters the oblong nut *d*. In order to prevent the screw C from being withdrawn from nut *d*, the washer *e* is riveted to the lower end of the screw. It will be observed that the nut *d* has a shoulder, *o*, formed at each end on its upper surface, the object of which will be hereinafter explained. On the bottom edge of case A are two elevations, *g*, designed to arrest the nut *d* when operated on by screw C.

In operating my invention the case A is first screwed into the hole made in the barrel; the screw C, with the disk B attached to it, is then inserted into the opening in the case A, intended to receive it. The screw is now turned until the opposite ends of nut *d* rest against the elevations *g*, so as to hold *d* immovable, and by continuing to turn screw C, the screw-head will press down the disk on the shoulder at the point S. In order to make the disk B fit water and air-tight on the shoulder S, a rubber or leather washer, *h*, is placed underneath the disk. When it is desired to remove the disk or bung B, unscrew it until the ends of nut *d* are immediately over the indentations *n*, and the screw disk and nut can be easily withdrawn. The shoulders *o*, formed near each end of nut *d*, will serve to keep the nut in position by pressing against the interior surface of case A.

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

1. The screw C, in combination with disk B, the nut *d*, and washer *e*, the whole constructed and operating as and for the purpose herein set forth.

2. The case A, constructed in the manner and for the purpose substantially as herein described.

3. A combination of case A and disk B, both constructed and operating substantially as herein set forth.

In testimony that I acknowledge the foregoing as my own, I hereby affix my signature in the presence of two witnesses.

WILLIAM BOYNTON.

Witnesses:

HORACE J. COOK,  
ADAM FRIES.