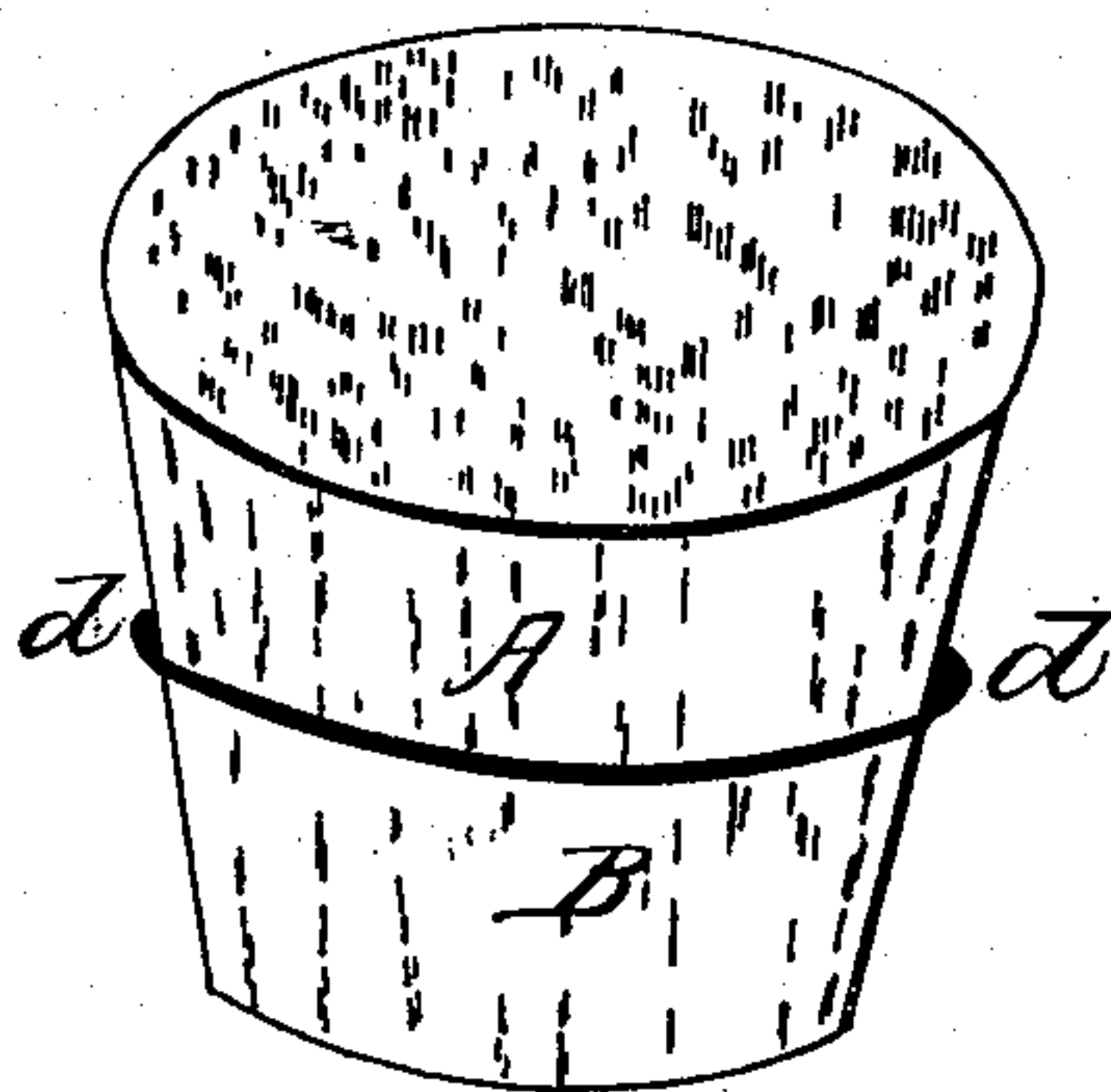


J. S. DAVISON.  
AIR TIGHT CORK.

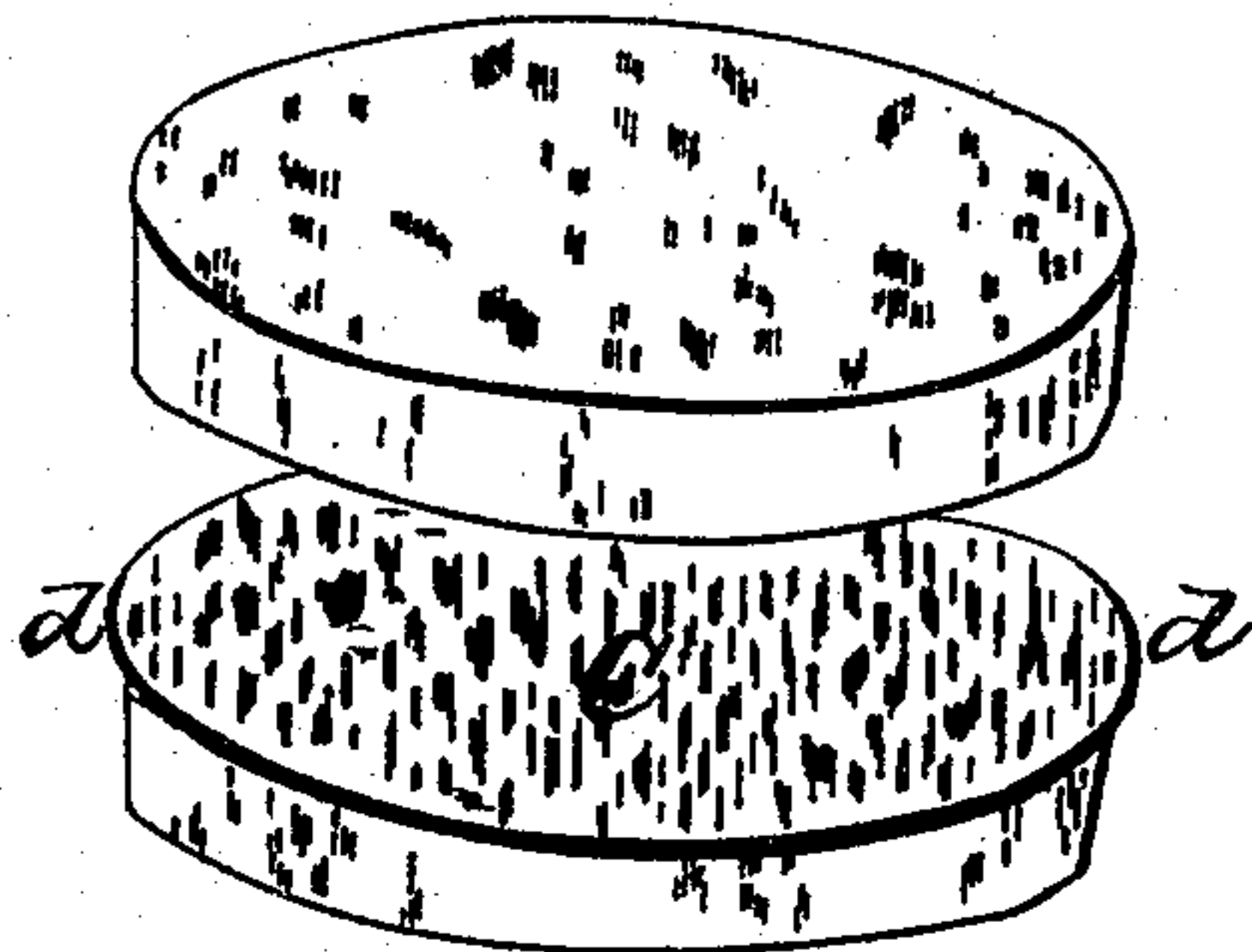
No. 40,742.

Patented Dec. 1, 1863.

*Fig. 1.*



*Fig. 2.*



*Witnesses*

*Wm. H. Harny*  
*Joseph Weather*

*Inventor*

*John S. Davison*

# UNITED STATES PATENT OFFICE.

JOHN S. DAVISON, OF CRANBERRY, NEW JERSEY.

## IMPROVED AIR-TIGHT CORK.

Specification forming part of Letters Patent No. 40,742, dated December 1, 1863.

*To all whom it may concern:*

Be it known that I, JOHN S. DAVISON, of Cranberry, in the county of Middlesex, in the State of New Jersey, have invented a new and Improved Mode of Rendering Corks Air-Tight; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, making a part of this specification, in which—

Figure 1 is a view of an ordinarily-formed cork-stopper with my invention applied to its center. Fig. 2 is a view of a jar-cork formed in two sections with my invention applied to the lower one.

Similar letters of reference indicate corresponding parts in the several figures.

This invention relates to an improvement in cork-stoppers of all descriptions. The object of the invention is to produce a cork that will be impervious to the air. This object is attained by the application of a layer of gutta-percha or other suitable material to the cork, which will prevent the air from passing through its pores.

To enable those skilled in the art to fully understand and construct my invention, I will proceed to describe it.

Figure 1 represents a cork which is composed of two sections. A is the upper section, and B the lower one. On one of these sections a layer of gutta-percha or other suitable substance is placed, as shown at C in Fig. 2, and while warm the other section is applied to it, thus cementing them firmly together, the gutta-

percha soon becoming quite hard and forming a barrier to the air which would otherwise pass through the cork's pores. The cork can be formed in two or more pieces, and a layer of gutta-percha or other proper substance put between each piece; or it can be applied to the top or bottom of the cork instead of dividing it. This layer of gutta-percha is of greater circumference than the cork itself, as shown at d in the two figures, so that when the cork is pressed into a jar or bottle this edge will fit close round the neck, and thus render it air-tight there also.

Stoppers of cork of all shapes and descriptions can be made in this way both for vials, cans, and jars. It will be found very handy and convenient when applied to fruit-preserving cans and jars, and also to bottles containing volatile liquids, as ether, turpentine, benzine, &c.

Having thus given a description of my invention, what I claim as new, and desire to secure by Letters Patent, is—

The application of a layer of gutta-percha (or other substance which will prevent the admission of air) to stoppers of cork, so as to render them impervious to the air in the different ways herein described, or by other means substantially the same, the whole being arranged substantially as and for the purposes set forth.

JOHN S. DAVISON.

Witnesses:

R. G. ISHAM,  
JOSEPH MATHER.