

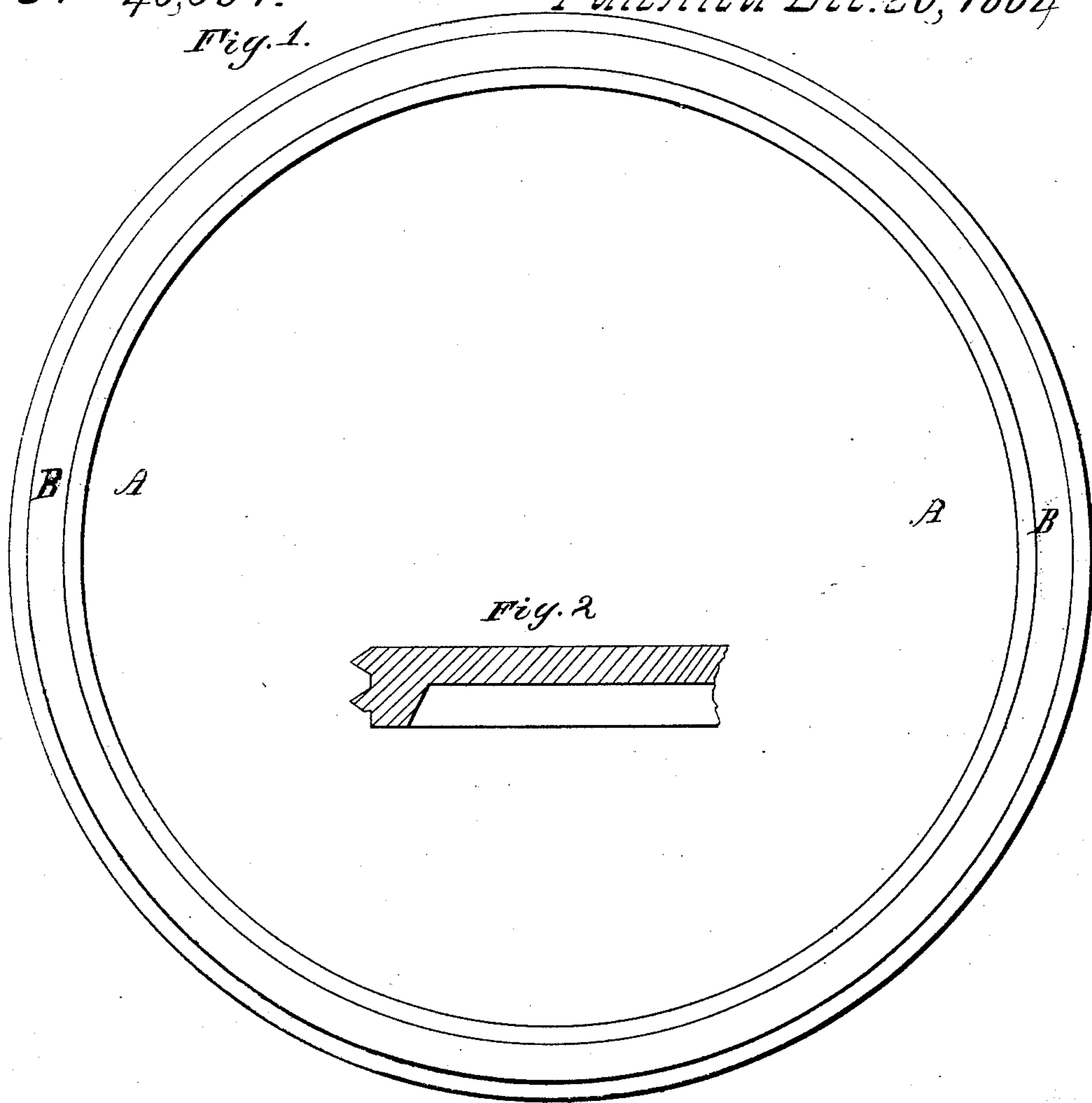
*S. Lewis,*

*Metal Barrel Head.*

*N<sup>o</sup> 45,507.*

*Patented Dec. 20, 1864*

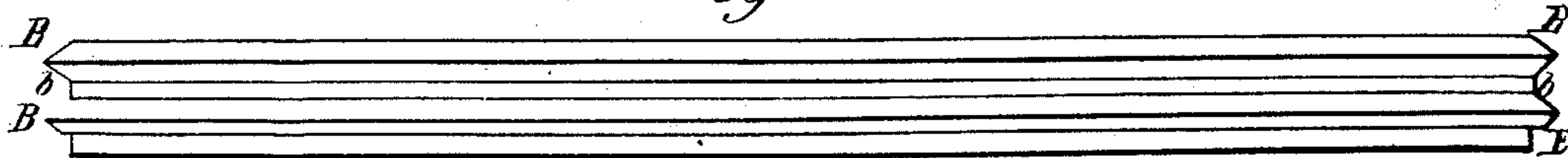
*Fig. 1.*



*Fig. 2*



*Fig. 3.*



*Witnesses.*

*A. Humphrey  
Geo. Keeney*

*Inventor*

*Sylvan C. Lewis.*

# UNITED STATES PATENT OFFICE.

SYLVESTER LEWIS, OF ROCHESTER, NEW YORK.

## IMPROVED METALLIC HEAD FOR BARRELS.

Specification forming part of Letters Patent No. **45,507**, dated December 20, 1864.

*To all whom it may concern:*

Be it known that I, SYLVESTER LEWIS, of Rochester, Monroe county, and State of New York, have invented a new and Improved Metallic Head for Barrels Containing Oil and other Fluids; 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.

The nature of my invention consists in providing for barrels and casks designed to contain oil and other fluids a metallic head which shall be absolutely tight and prevent the escape of any portion of the contents thereof by surrounding the rim of such head with two or more continuous beveled projections designed to fit tightly into corresponding creases or crozes on the inner side and near the ends of the staves, where the head is usually placed, which beveled projections and the space between them are covered with a coating of gum-shellac or like material in fluid form, which gradually hardens after such head is fitted in.

To enable others skilled in the art to make and use my invention, I will proceed to describe its construction and operation.

I take a circular piece of iron or other suitable metal, represented by Figure 1 in the accompanying drawings, of the thickness of half an inch or more, and of a diameter suited to the barrel or cask head desired, on the outer side of which is hollowed out a circular space, (represented in Fig. 1 by the letters A A,) with an equal depth in the parts of about three-eighths of an inch, and of a diameter less by about one-half of an inch than that of such circular piece of iron or other metal. I cast said heads with two or more beveled projections around and upon the periphery of the same, about one-eighth of an inch or more in width at the base thereof and the same distance

apart, extending out from such periphery about one-third of an inch, more or less, in the form represented by Fig. 3, which presents a view of said head, with said projections represented only in Fig. 3, which are marked B B, and designed to fit tightly into corresponding creases or crozes made on the inside of the barrel or cask staves, and near the ends thereof, in the usual place for that purpose.

Fig. 2 represents a transverse section of said head, with its hollowed space and its beveled projections. Each of said projections is to be so shaped that the space or creases between the same shall project farther out, or, in other words, shall be less deep than the inside of said barrel above and below said beveled edges or projections. That part of said metallic head around and adjoining the said hollowed part thereof is to be raised about three-eighths of an inch or more and extended outward, so as to press firmly against the staves of said barrel or cask at the chine thereof, for their protection against breaks or injuries. Before inserting said barrel or cask heads I apply to the rim thereof a coating of gum-shellac or similar material in fluid form.

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

1. The application to a metallic barrel or cask head of two or more beveled projections upon the outer rim thereof, as above described, and the application of gum-shellac or other similar substance to the same, as herein set forth.

2. The circular elevation around and adjoining said space A A, for the protection of the staves, as aforesaid.

Dated May 17, 1864.

SYLVESTER LEWIS.

Witnesses:

GEO. H. HUMPHREY,  
H. G. HUMPHREY.