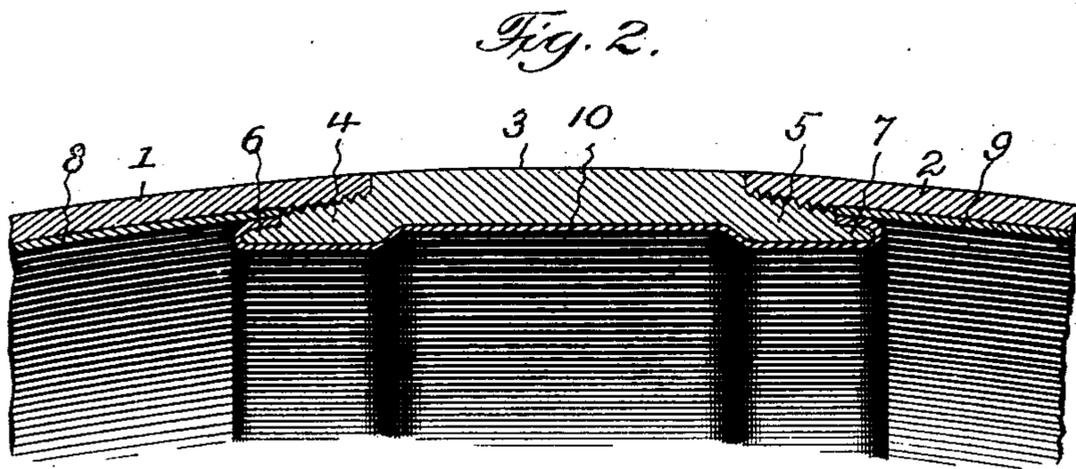
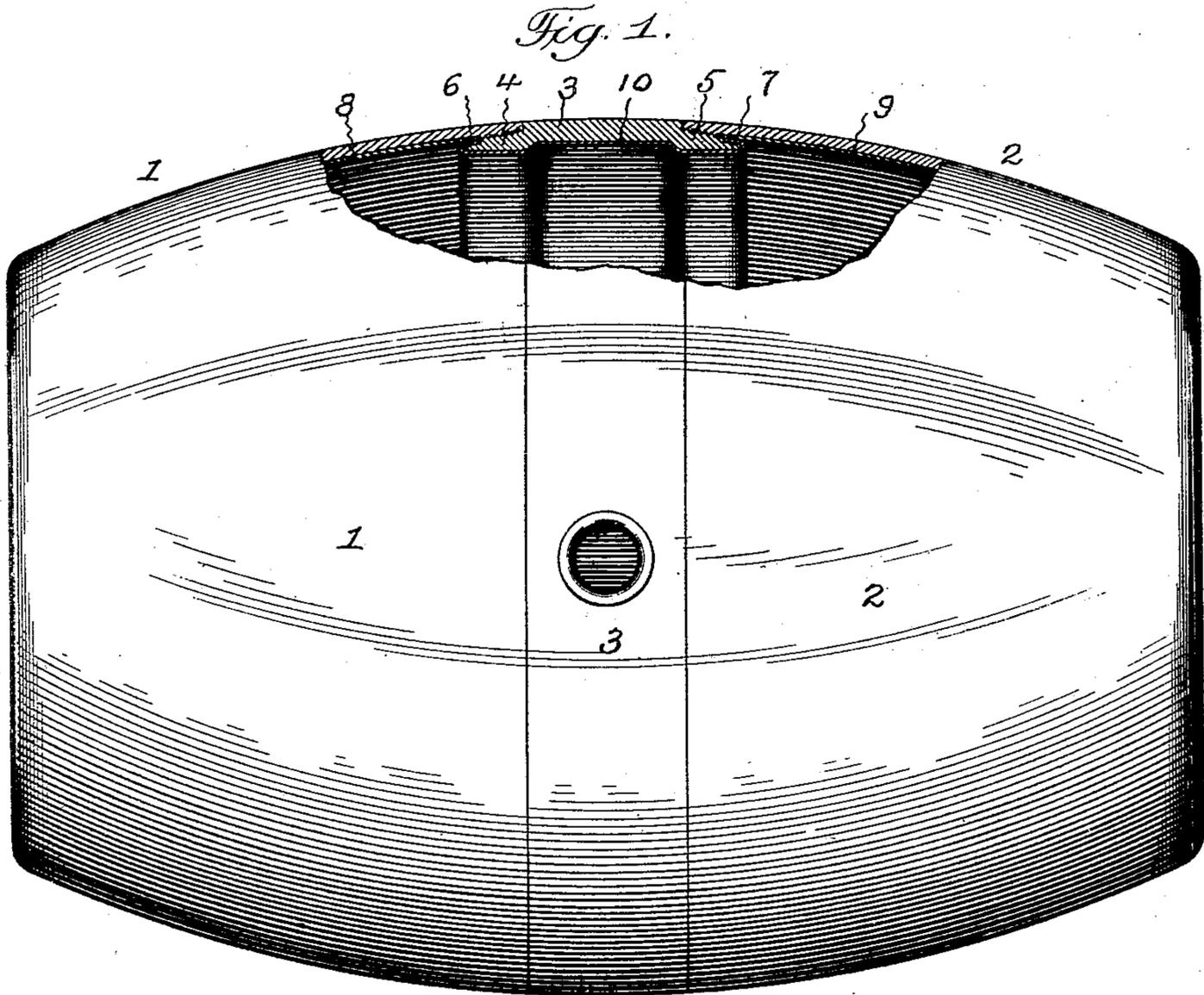


No. 704,366.

Patented July 8, 1902.

E. C. PHILLIPS.  
WROUGHT METAL BARREL.  
(Application filed Mar. 28, 1902.)

(No Model.)



Attest:

John Enders, Jr.  
Henry A. Nott

Inventor:

Elwood C. Phillips,  
by Robert Burns  
Att'y

# UNITED STATES PATENT OFFICE.

ELWOOD C. PHILLIPS, OF CHICAGO, ILLINOIS, ASSIGNOR OF THREE-FOURTHS  
TO CHARLES R. BARRETT, OF CHICAGO, ILLINOIS.

## WROUGHT-METAL BARREL.

SPECIFICATION forming part of Letters Patent No. 704,366, dated July 8, 1902.

Application filed March 28, 1902. Serial No. 100,402. (No model.)

*To all whom it may concern:*

Be it known that I, ELWOOD C. PHILLIPS, a citizen of the United States of America, and a resident of Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Wrought-Metal Barrels, of which the following is a specification.

This invention relates to that type of wrought-metal barrels and like fluid-containing packages in which a series of cylindrical sections stamped, drawn, or spun from sheets or blanks of metal into the required shape are secured together at their meeting edges to form the completed article; and the present improvement has for its objects to provide a simple and efficient construction of parts wherewith the sections comprising the barrel are connected together in a tight and substantial manner and with which an inner lining is secured in place in a manner to prevent access of liquid between the contiguous surfaces of the outer barrel-shell and the inner lining to cause a corroding action either chemical or electrolytic in its nature of either of such surfaces, all as will hereinafter more fully appear and be more particularly pointed out in the claims. I attain such objects by the construction and arrangement of parts illustrated in the accompanying drawings, in which—

Figure 1 is a side elevation of a barrel with parts in section and embodying the present invention; Fig. 2, an enlarged fragmentary section of the same.

Similar numerals of reference indicate like parts in both views.

As represented in the drawings, the barrel will comprise in its simpler form two substantially counterpart outer or end sections 1 and 2 and a central connecting-section 3. All of said sections are formed from suitably-shaped sheets or blanks of wrought metal by any of the usual drawing, stamping, or spinning operations usual to the art, and while each section is shown as formed of a single integral piece of metal it is within the scope of the present invention to form the various sections of a number of pieces of the required size and shape secured together in a substan-

tial manner by welding or other usual means and as the judgment of the constructor may suggest. The aforesaid series of sections will have a cylindrical form and will have the usual flaring form, as shown, to afford the usual bilge or belly to the finished barrel.

In the present invention the central member 3, of an annular form, as shown, is provided with offsetted primary extensions 4 and 5 at its opposite ends, which are screw-threaded externally, so as to screw into the correspondingly-screw-threaded ends of the respective outer sections 1 and 2 in the assemblage of the sections together to form a completed barrel.

In addition the central section is provided with secondary extensions 6 and 7, the outer surfaces or peripheries of which are tapered, as shown, and are adapted to have engagement with correspondingly-flared portions of the respective end sections 1 and 2 when the parts are assembled and insure a tight joint at the points of union of the parts.

When the barrel is to remain unlined, the tapering outer peripheries of the secondary extensions 6 and 7 will have direct contact with the correspondingly-flared portions of the respective end sections. When, however, the barrel is to be provided with an incorrodible lining, such contact will not be a direct one, but will be an indirect one, which is made by the intervention of the barrel-lining in manner now set forth.

8 and 9 are lining sheets or plates arranged within the respective end sections 1 and 2 and extended to the screw-threaded ends of the same, as shown.

10 is a lining-sheet arranged within the central annular section 3, with the ends of such lining folded over the secondary extensions 6 and 7 of the same, as shown. As so constructed and arranged the parts of the lining 10, which are folded over the extensions 6 and 7, are adapted to constitute the tapering surfaces of the central section 3 and engage the correspondingly-formed surfaces of the linings 8 and 9 in effecting a tight joint between the sections in the operation of assembling the parts together as a completed barrel.

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

1. A wrought-metal barrel or the like comprising a pair of outer sections having internally-screw-threaded ends, and tapered bores adjacent thereto, and a central connecting-section having primary offsetted and screw-threaded extensions, and secondary tapered extensions, adapted to have engagement with the tapered bores of the end sections, substantially as set forth.

2. A wrought-metal barrel or the like comprising a pair of outer sections having internally-screw-threaded ends, and tapered bores

adjacent thereto, lining-sheets arranged within said end sections, a central connecting-section having primary offsetted and screw-threaded extensions and secondary tapering extensions, and a lining-sheet fitting the interior of the central section and having its ends folded over the secondary extensions thereof, substantially as set forth.

Signed at Chicago, Illinois, this 24th day of March, 1902.

ELWOOD C. PHILLIPS.

Witnesses:

ROBERT BURNS,  
HENRY A. NOTT.