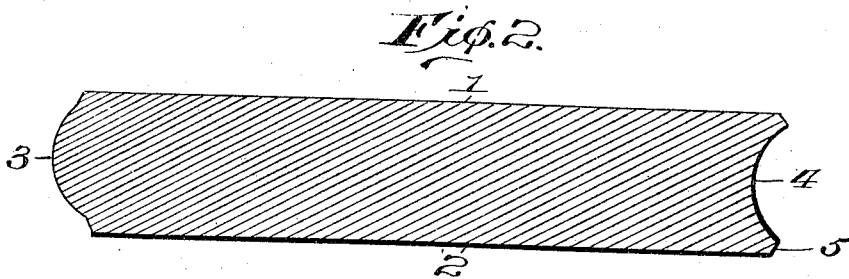
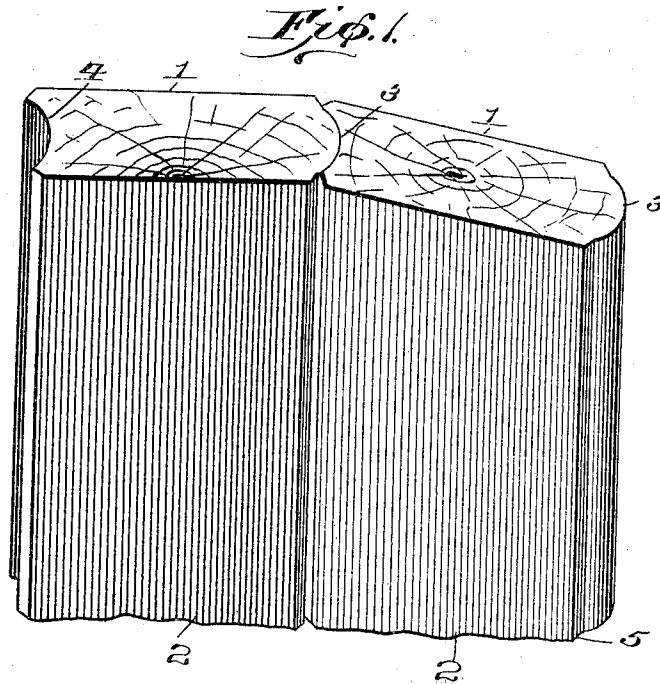


T. S. HOLLAND.
STAVE.
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1,032,675.

Patented July 16, 1912



Witnesses

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STAVE.

1,032,675.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, THOMAS S. HOLLAND, a citizen of the United States, residing at Tacoma, in the county of Pierce and State of Washington, have invented certain new and useful Improvements in Staves, of which the following is a specification.

This invention relates to staves for use in the construction of silos, tanks, barrels and similar round or curved structures.

The object of the invention is to provide a stave of the kind referred to which shall be capable of equally advantageous use in the formation of the structures or articles of the kind referred to whether the diameters or sizes thereof be large or small.

A further object is to provide staves of such form that when they are placed edge to edge a firm seating or juncture of the parts in a manner to prevent the entrance or accumulation of moisture is accomplished, and whereby a limited expansion or contraction of the parts will in no way injure the body of which they form a part.

With these objects in view the invention consists of a stave having the generic and specific features of form, substantially as hereinafter described and claimed.

The stave is illustrated in the accompanying drawing, in which;

Figure 1 is a perspective view of two of my improved staves showing the tops thereof in the positions they assume when in place for use, the bottoms of the staves being broken away; and, Fig. 2 is a transverse sectional view of a stave.

In forming the stave the side 1 which in use is to constitute the outer face of the structure or article of which it is to form a part is somewhat wider than the reverse or inner face 2, the extent of variance depending upon the use to which the stave is to be placed. One edge of each stave has formed with it a continuous longitudinal exsertion or rib 3 the outer face of which is rounded and is preferably the arc of a circle of suitable diameter. The opposite edge of the stave has formed in it for its entire length a groove or way 4 the exposed face of which corresponds to the contour of the rib or exsertion 3, in order that when that portion of a stave having the rib or exsertion is brought to a position to enter the

groove or way of another stave placed adjacent to it, and firmly held therein, a tight joint is produced.

The formation of the parts as described permits the perfect juncture of the meeting edges of staves when their respective faces are at different angles to each other. In order to permit the placing and securing of staves in different positions in relation to each other to form structures or articles of greatly varying diameters or sizes, those portions of both edges of the staves between the grooves or ways and the ribs or exsertions and the inner and outer faces are beveled to form surfaces 5. Those surfaces extend from the respective faces of the stave in directions to form in conjuncture with such faces, angles greater than right angles. The angularity of the parts may be varied at will. By forming the surfaces 5 as described variation in the relative arrangement of adjacent staves is permitted, and therefore the staves may be made of a standard or uniform size and be capable of use in forming articles or structures of a wide range of size or diameter.

In the preferred form of the stave as herein shown the greater portion of each edge thereof is composed either of the rib or the groove. Thus, when assembled as described and firmly bound or otherwise secured together a tight-fitting juncture between nearly the entire surface of adjacent edges is formed, preventing entrance of moisture the presence of which would tend to rot the staves. The channels formed by the surfaces 5 being vertical and unobstructed form conduits by which moisture is readily conveyed away from the meeting edges of the staves.

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

1. A stave having one edge thereof provided with a rounded rib or exsertion, the other edge being provided with a groove or way of a size and shape corresponding to that of the rib or exsertion, the whole of the portions of the respective edges between the rib or groove and the faces of the stave having plane faces extending at obtuse angles to such faces.

2. A stave having faces of different widths

one edge thereof being provided with a rounded rib or exsertion extending over the greater portion of its surface, and the other edge being provided with a groove or way
5 corresponding in form and size to that of the rib or exsertion, the whole of the portions of the respective edges between the rib or groove and the faces of the stave hav-

ing plane faces extending at obtuse angles to such faces.

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

THOMAS S. HOLLAND.

Witnesses:

R. E. ROSE,

C. E. ECKLER.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."