

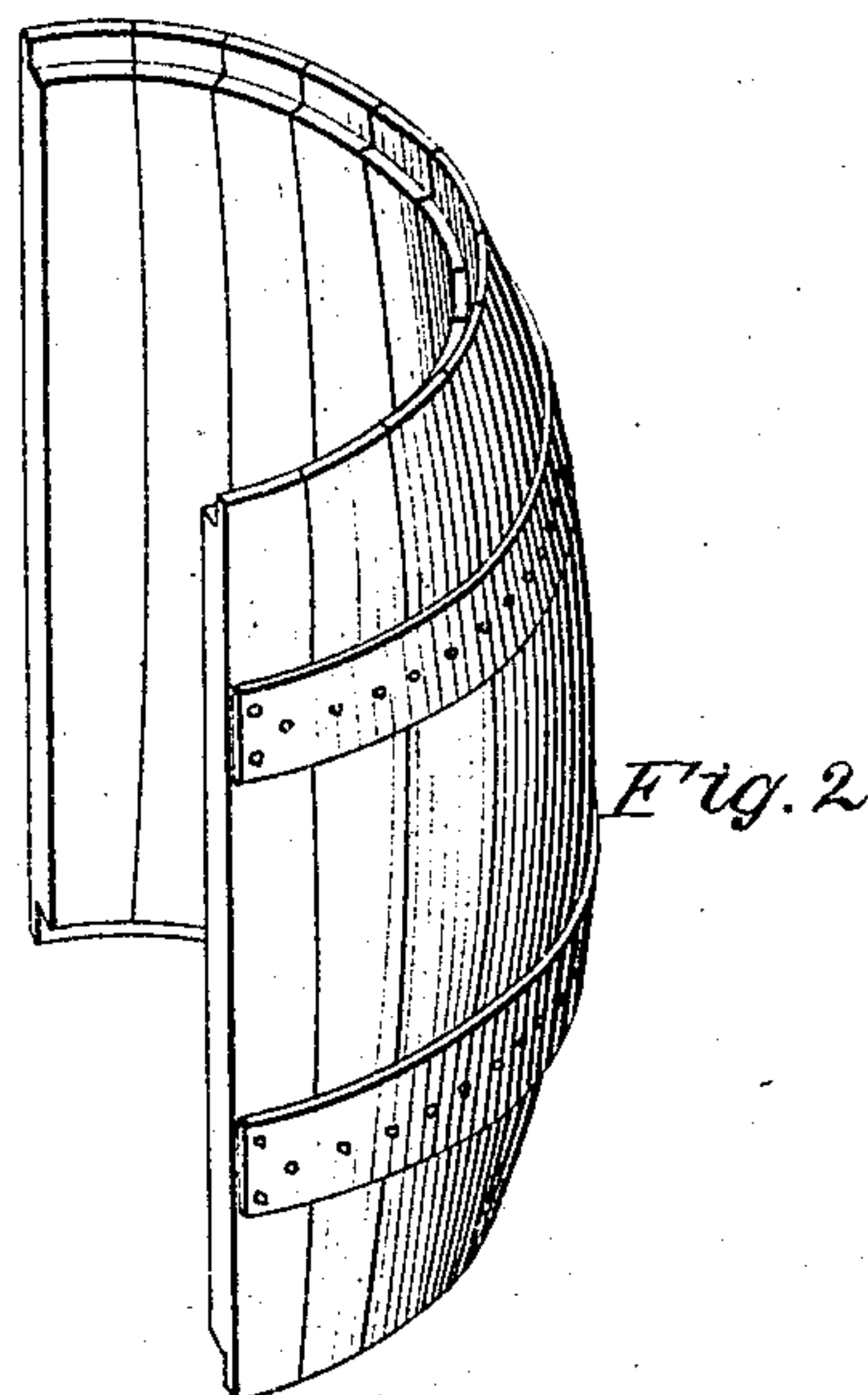
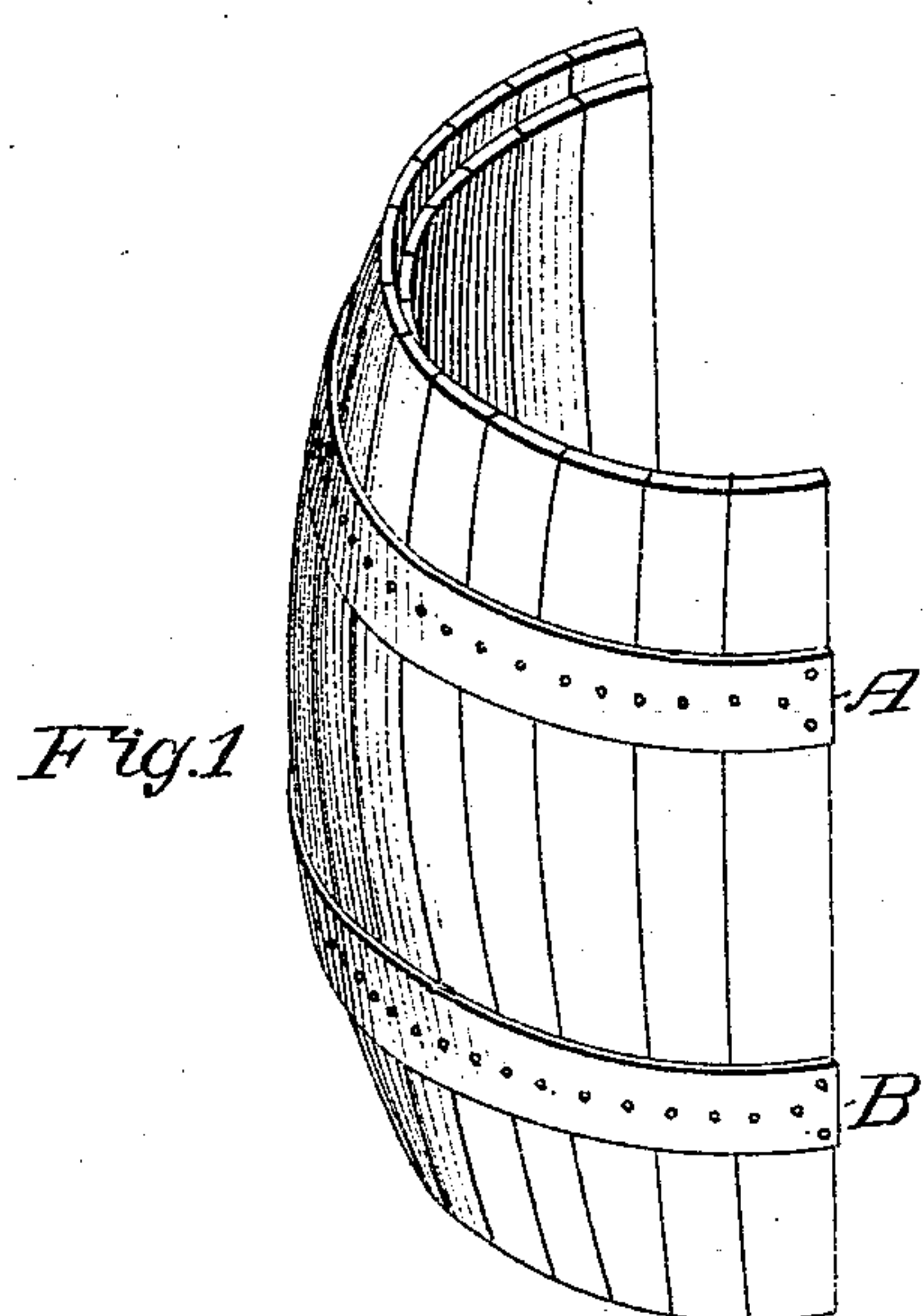
(Model.)

R. F. ADAMS.

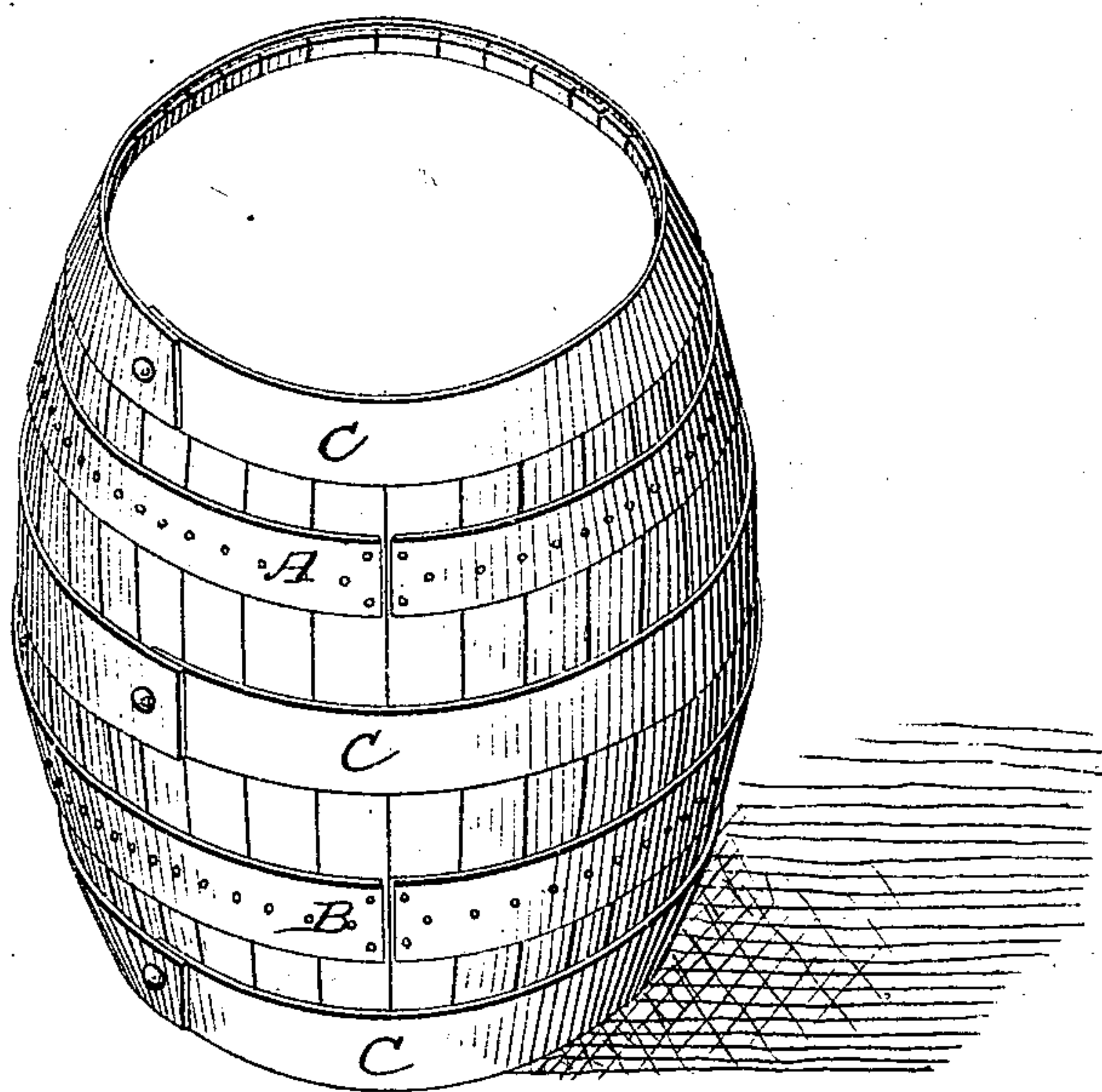
KNOCK DOWN CASK OR BARREL.

No. 250,475.

Patented Dec. 6, 1881.



*Fig. 3*



Witnesses:  
David Beem  
W. P. Beem

Inventor.

Robert Finley Adams.



# UNITED STATES PATENT OFFICE.

ROBERT F. ADAMS, OF CHARITON, IOWA.

## KNOCKDOWN CASK OR BARREL.

SPECIFICATION forming part of Letters Patent No. 250,475, dated December 6, 1881.

Application filed March 30, 1881. (Model.)

*To all whom it may concern:*

Be it known that I, ROBERT FINLEY ADAMS, a citizen of the United States, residing at Chariton, in the county of Lucas and State of Iowa, have invented an Improved Knockdown Cask or Barrel; and I hereby declare that the following is a full, clear, and exact description of the invention.

Heretofore it has been the custom of shippers of goods packed in barrels and casks to seldom, if ever, reship the package for use the second time, on account of the space occupied in car or wagon, it being too great to admit of transportation with any profit to the shipper—in fact, in many cases, it being less expense to buy the casks new than to pay freight on the old packages.

My invention proposes to furnish to the public a form of cask or barrel which can be separated into parts for shipment, so that the package will occupy no more space than the material from which it is formed would occupy.

To carry my invention into effect, the cask is formed in the old method, and the hoop or hoops on each end are made stationary to the cask, and may be divided into two or more arcs. These arcs may be put together by workmen, whether skilled or not, by driving the hoops not made stationary, as in the old method of forming such casks or barrels.

Figure 1 represents one-half or an equal division of a keg, barrel, cask, or other circular body composed of staves. A represents a hoop, of leather, wood, or iron, divided in equal parts, and fastened or riveted permanently by tacks, nails, screws, or other means to the staves of said half-barrel, as shown in Fig. 1. B is a hoop which is an exact duplicate of A.

Fig. 2 represents the other half or division of the keg, barrel, or cask. For convenience, the hoop is supposed to be divided into two equal parts, as shown by Figs. 1 and 2, these two halves, when joined together, composing a barrel, cask, keg, or other circular body for holding liquids or dry stuffs.

Fig. 3 represents a barrel set up, or a combination of two equal sections of a barrel, keg, cask, &c., as shown in Figs. 1 and 2. A and B are the permanent half-hoops of one section, the other half being an exact duplicate. Immediately above A in Fig. 3 is an entire hoop,

C, of wood or iron, movable at pleasure. Between the hoops A and B, and underneath the hoop B, are two other entire hoops, C C, for the purpose of completing and holding in position the united sections and forming a complete barrel, as represented by Fig. 3. The number of these movable hoops or bands can be increased sufficiently to make the barrel strong enough for all practical purposes, said hoops being put on by the ordinary methods, and the barrel or cask being completed in every respect by the old method after the sections are united together.

The barrel may, for convenience, be divided into as many sections as may be desirable or necessary for reshipping and handling, the main objects being to facilitate the work of putting it together and decreasing its bulk in shipping.

In setting up the body the sections, as shown in Figs. 1 and 2, are placed upright, forming a barrel-body, as in Fig. 3. Then a movable hoop is dropped or driven on from the top to near the center of the barrel, leaving the top of the staves sufficiently loose to receive the head, which is placed in its position by the ordinary method, and another or additional hoops are driven on over the head, making it perfectly tight. Then the barrel is turned the bottom end up, and the same process is followed in putting in the other head or bottom, the hoops being tightened at pleasure, as in ordinary barrels.

The work of "knocking down" is exceedingly simple, consisting in taking off the movable hoops above and below the permanent divided bands, when the sections are ready for handling in any convenient shape.

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

A knockdown cask or barrel body consisting of two or more arcs composed of staves secured together by portions of hoops, the said arcs being held together by additional complete hoops.

ROBERT FINLEY ADAMS.

Witnesses:

CHAS. H. DAVIS,  
PETER L. ADAMS.