

(Model.)

C. S. CANNON.

BARREL.

No. 246,721.

Patented Sept. 6, 1881.

Fig. 1.

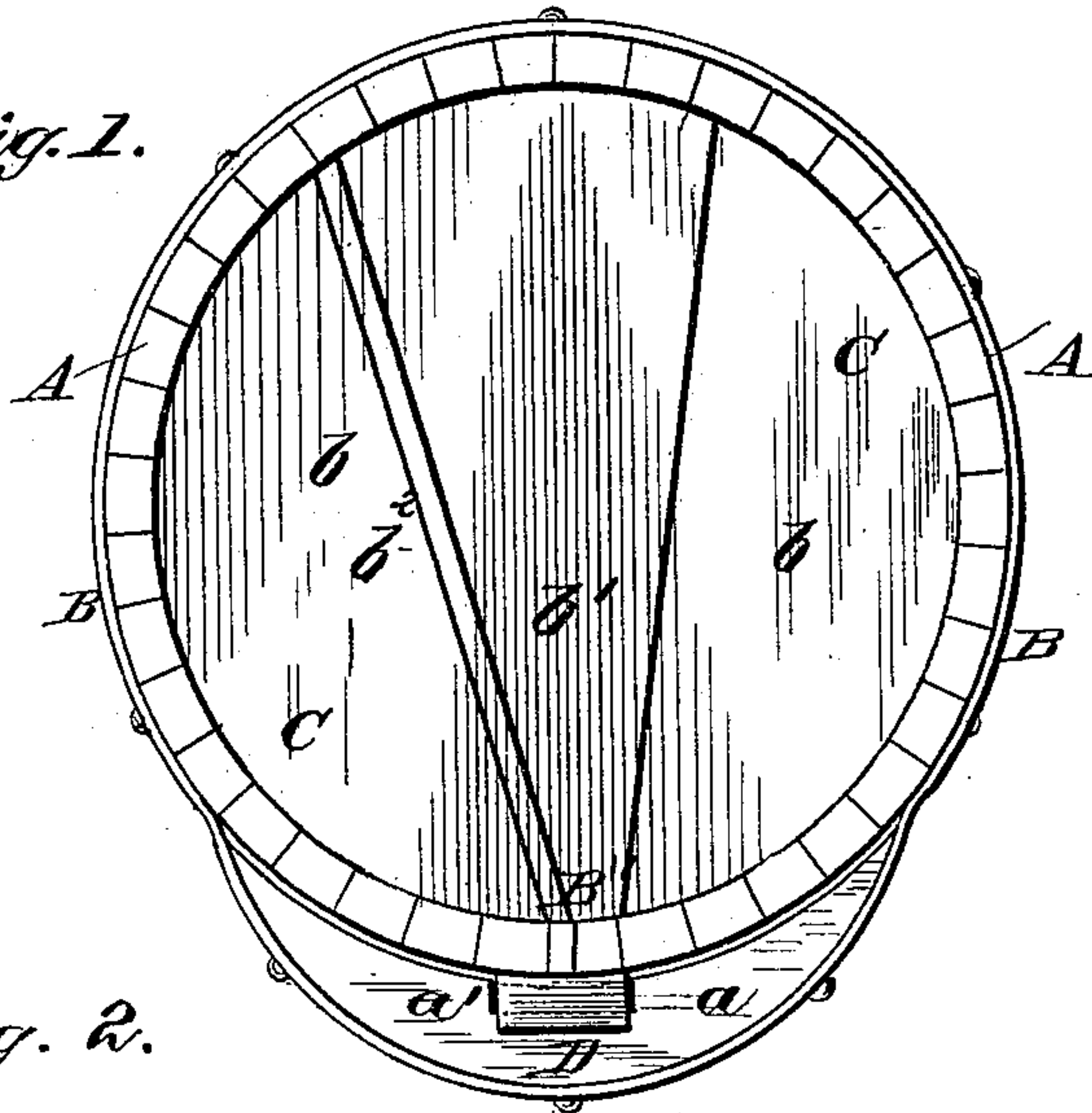


Fig. 2.

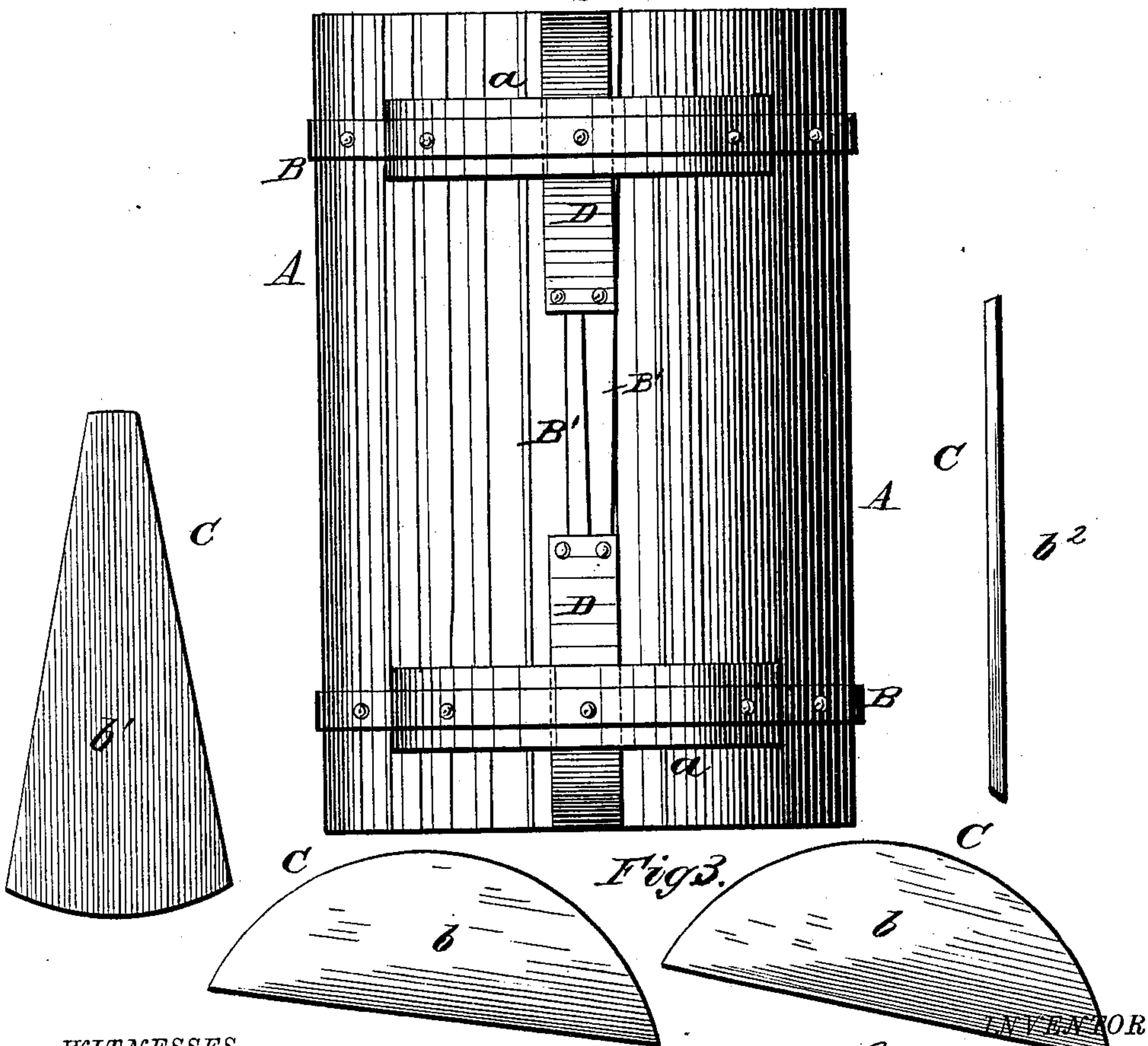


Fig. 3.

WITNESSES

Wm. L. Dieterich  
F. C. Dieterich

J. Cannon,  
by A. Snow and Co. Attorneys



# UNITED STATES PATENT OFFICE.

CORODON S. CANNON, OF BATTLE CREEK, MICHIGAN.

## BARREL.

SPECIFICATION forming part of Letters Patent No. 246,721, dated September 6, 1881.

Application filed July 15, 1881. (Model.)

*To all whom it may concern :*

Be it known that I, CORODON S. CANNON, of Battle Creek, in the county of Calhoun and State of Michigan, have invented certain new and useful Improvements in Barrels; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification, and in which—

Figure 1 is a plan view of my improved barrel. Fig. 2 is a side view of the same; and Fig. 3 is a view of one of the heads, showing its several parts.

This invention has relation to improvements in barrels, and is capable of being readily put up and taken apart for shipment without skilled experience, while it lessens the quantity of material for making the barrels and avoids the waste heretofore experienced in their manufacture, requires less room or space for storing or shipping them, and overcomes the shrinking and swelling of the barrels.

The nature of my invention consists in the detailed construction and arrangement of the component parts thereof, substantially as hereinafter more fully set forth.

Referring to the accompanying drawings, A A indicate the staves, which are made perfectly straight, not bulging, as heretofore, and provided with grooves, as usual, near their ends, to receive the heads.

B B are the binding-hoops, provided at one side each with a rigid or inflexible bridge, *a*, having a recess, *a'*, upon its inner concaved side.

C C are the heads, composed each of four, or more or less, parts—viz., two segments, *b*, a wedge, *b'*, and an enlarging-strip, *b<sup>2</sup>*.

The operation to put up the barrel is as follows: The hoops being placed in position, the staves A are arranged therein side by side, room being left for the insertion of the wedge-shaped staves B'. When sufficient have been inserted the sectional heads are placed in position, with the segments *b* entering the grooves of the staves, and the wedge *b'*, by means of the space left for the wedge-shaped staves B', is placed with its larger portion in the grooves

in the staves on the side opposite the opening left for the wedge-shaped staves B' and driven between these segments *b*, its smaller end entering said opening, which will cause the hoops to bind against and clamp the staves in place. This, it will be seen, obviates the bulging of the staves to effect the wedging of the hoops upon the staves as they are forced down upon them, as in the old way. Therefore, the staves being straight, less room or space is required for the shipment and storing of the barrels, while the swelling and shrinking of the staves are almost wholly overcome. After driving home the wedge *b'*, the next step is to insert from opposite ends the tapering or wedge-shaped staves B', they being permitted, while being driven into position, to stand out into the grooves or recesses *a'* of the bridges *a* of the hoops, thus avoiding contact with the heads. They are now forced inwardly to cause the heads and the smaller end portion of wedge *b'* to enter their grooves, and to lock the whole in position. The forcing of the wedging-staves B' into position, with the heads entering their grooves, is effected by driving keys D into the recesses *a'* of the hoop-bridges *a*. The formation is now complete.

The strip *b<sup>2</sup>* is used to enlarge the heads, when desired to increase the size of the barrel, it being understood that the keys D and wedge-shaped staves B' are removed for the insertion of the strip *b<sup>2</sup>*, and then again inserted and locked in place.

It is obvious that the manner of taking apart my improved barrel is the reverse of that just described. To open the barrel, the keys D are removed, thus allowing wedge-staves B' to stand out into the recesses *a'* of the bridges *a*, in which position the heads can readily be removed. When it is desired to open but one head of the barrel the removal of but one key D at the end it is desired to open and one wedge-stave B' will be sufficient.

This barrel can be readily taken apart and put together, it will be observed, without skilled experience.

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

1. In a barrel, the combination, with the staves A and heads C, of the hoops B, having the recessed bridge *a*, and the wedging-staves

B', substantially as and for the purpose set forth.

2. In a barrel, the combination, with the staves A B' and binding-hoops B, having the  
5 recessed bridges *a*, of the sectional heads C and the keys D, substantially as and for the purpose set forth.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

CORODON S. CANNON.

Witnesses:

GEO. F. GALE,  
FRANKLIN HINCKLEY.