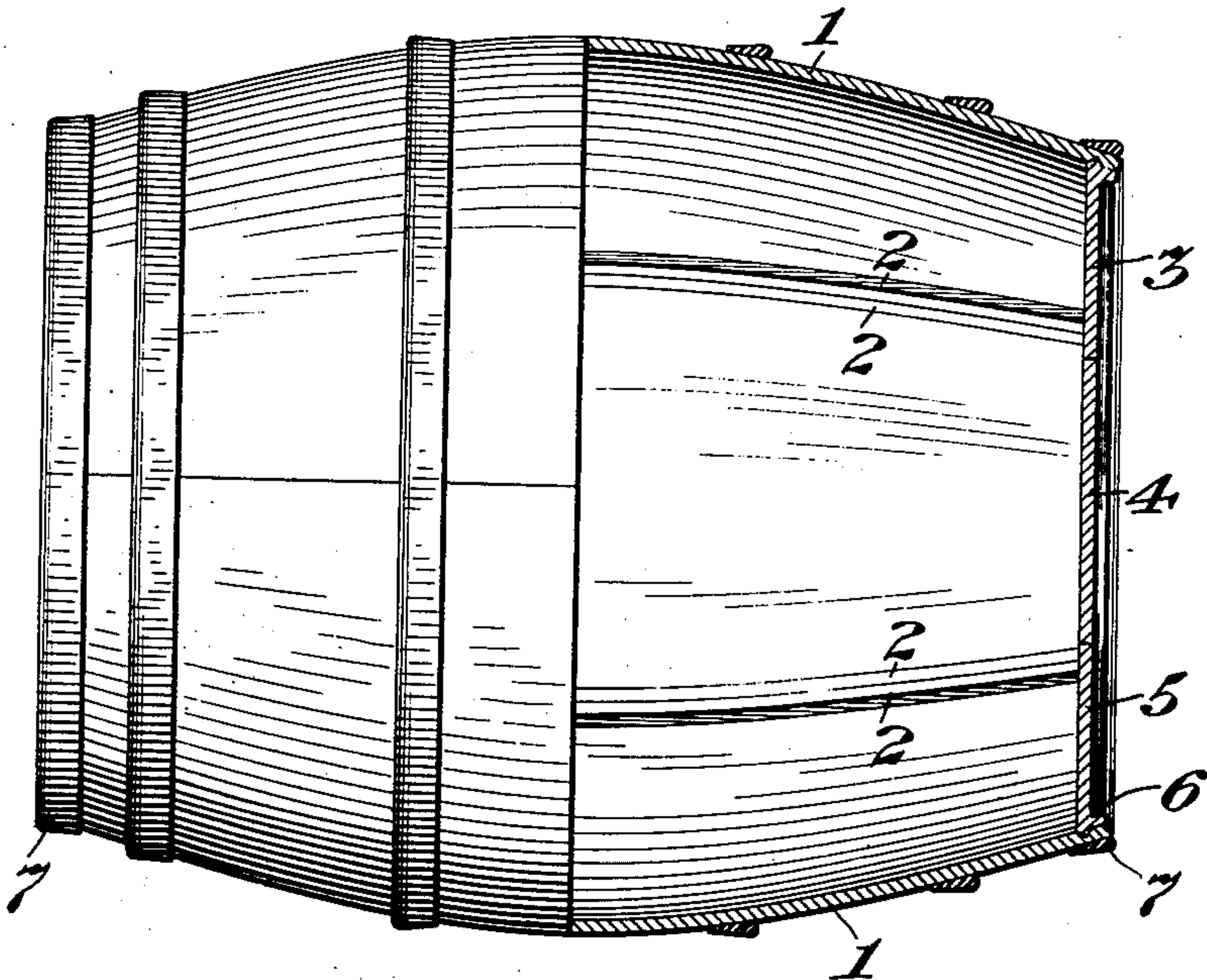


J. H. GEORGE.  
MOLDED BARREL CONSTRUCTION.  
APPLICATION FILED AUG. 16, 1907.

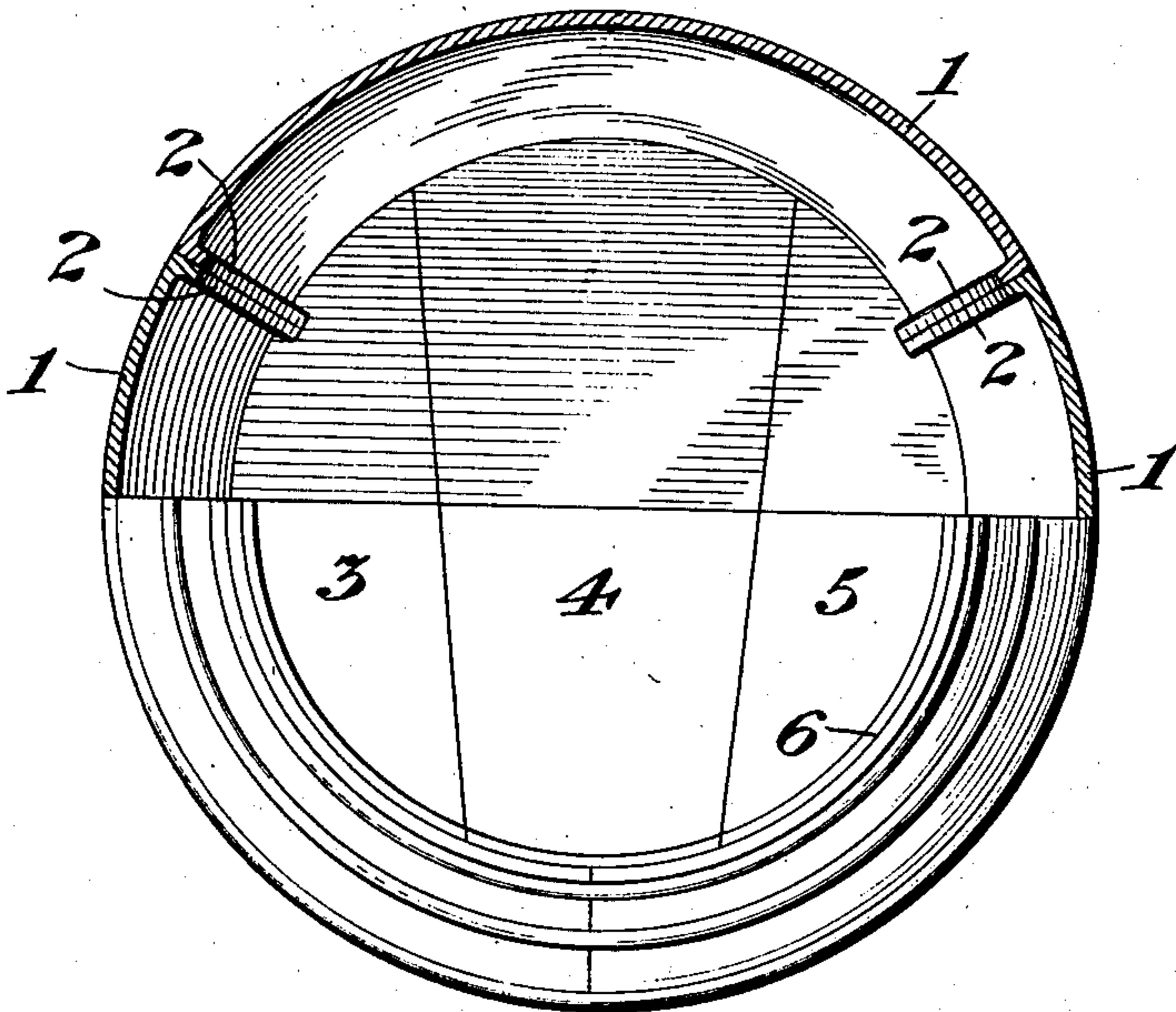
908,557.

Patented Jan. 5, 1909.

*Fig. 1*



*Fig. 2*



Witnesses:  
*Chas. Clagett*  
*J. Edward Golden*

*James H. George, Inventor*  
*By his Attorney Lewis J. Doolittle*



# UNITED STATES PATENT OFFICE.

JAMES H. GEORGE, OF NEW YORK, N. Y., ASSIGNOR, BY MESNE ASSIGNMENTS, TO DESIRE A. EATON, OF NEW YORK, N. Y.

## MOLDED BARREL CONSTRUCTION.

No. 908,557.

Specification of Letters Patent.

Patented Jan. 5, 1909.

Application filed August 16, 1907. Serial No. 388,840.

*To all whom it may concern:*

Be it known that I, JAMES H. GEORGE, a citizen of the United States, and resident of the city of New York, in the county of New York and State of New York, have invented certain new and useful Improvements in Molded Barrel Construction, of which the following is a specification.

This invention relates to barrel construction and more particularly to the novel construction of the staves and head as well as to the material of which the same are made.

The object of my invention is to provide a barrel of simple and cheap construction which shall possess several new features overcoming the well known difficulties existing in barrels of the ordinary form.

Other objects will be in part obvious and will in part appear hereinafter in connection with the description of the illustration herein shown. To provide a barrel embodying these features I prefer to use molded staves of a peculiar construction, which will be described more fully hereinafter, and which shall be more rigid than the ordinary staves of wood such as used in the common form.

The head of the barrel is also of peculiar construction and possesses many advantages, all of which will appear hereinafter in connection with the description of the barrel shown in the accompanying drawing as an illustration of an operative embodiment of my invention.

Figure 1 is a side elevation, partly in section, of a barrel illustrating my invention. Fig. 2 is an end elevation, partly in section, of the barrel shown in Fig. 1.

In the construction as shown three staves, indicated by the reference numeral 1, are provided but it will be understood that any suitable number may be used, or the barrel may be made in halves if desired. These staves are made of a molded material, preferably of paper or wood pulp, which may be easily formed into the desired shape. At each side of these staves reinforced portions or ribs, as shown at 2, are formed and extend the entire length thereof. These ribs when the staves are in position abut against the ribs of the adjacent stave. The object of these ribs is not only to provide greater rigidity of the stave without materially increasing its weight but also provides

against one stave being forced by the next stave by the barrel striking an obstruction while being rolled, or from other cause, thus preventing an opening being formed and allowing the contents of barrel to leak out.

In the ordinary wooden barrel the head is partly held in place by means of a "liner", or a strip of wood running around the outer edge of the head and nailed in place. In my improved construction I avoid the use of this "liner" by providing a head, preferably of the same material as the staves, with a molded reinforced portion or rib projecting outwardly from the circumference and abutting the staves when in position.

In the drawings I have shown the head in three sections, indicated by the reference numerals 3, 4 and 5, which when in position form a circular head. A rib 6 is formed on these sections around the circumference when in position as shown. This rib 6 abuts the outer ends of the staves 1 and not only renders the head more rigid but also provides a support which prevents the ends of the staves from being crushed.

The head may be fitted into the croze in the staves in the manner shown when the hoops 7 are forced on. The staves are formed with a slightly less curvature than that which they finally assume and when the head is placed in position the hoops 7 are driven on, bringing the ends tightly around the head. The hoops may also be constructed of the same molded material as the staves and head and formed with a suitable cross-section to provide for placing the same in position. Additional hoops may be provided as necessary to insure the desired strength.

On account of the increasing cost of the wooden barrels my improved construction not only solves this element of the problem but provides in addition many features of novelty and value.

This construction is especially adapted for sugar and flour barrels but may be also applied to barrels for any purpose.

As many changes could be made in the above construction and many apparently widely different embodiments of my invention designed without departing from the scope thereof, I intend that all matter contained in the above description or shown in the accompanying drawing shall be inter-



preted as illustrative merely of an operative embodiment of my invention and not in a limiting sense.

What I claim is:

- 5 1. A barrel comprising in its construction a plurality of molded staves each provided with an integral inner reinforcing rib along both sides thereof, a head for said barrel, and means for holding said staves and head in a  
10 predetermined relation to each other.
2. A barrel comprising in its construction a plurality of molded staves, a head for said barrel, and a plurality of endless molded hoops adapted to hold said staves and head  
15 in a predetermined relation to each other.
3. A barrel comprising in its construction

a plurality of staves of molded pulp, a head of molded pulp, and a plurality of endless hoops of molded pulp adapted to hold said staves and head in a predetermined relation 20 to each other.

4. A molded pulp barrel stave provided with integral inner reinforcing ribs extending along the longitudinal edges thereof.

Signed at the city of New York, in the 25 county of New York, and State of New York this 9th day of August, A. D. 1907.

JAMES H. GEORGE.

Witnesses:

LEWIS J. DOOLITTLE,  
WALTER H. BOND.