

No. 696,188.

Patented Mar. 25, 1902.

W. M. PEARD.
BUILT UP COLUMN.
(Application filed Nov. 26, 1901.)

(No Model.)

FIG. 1.

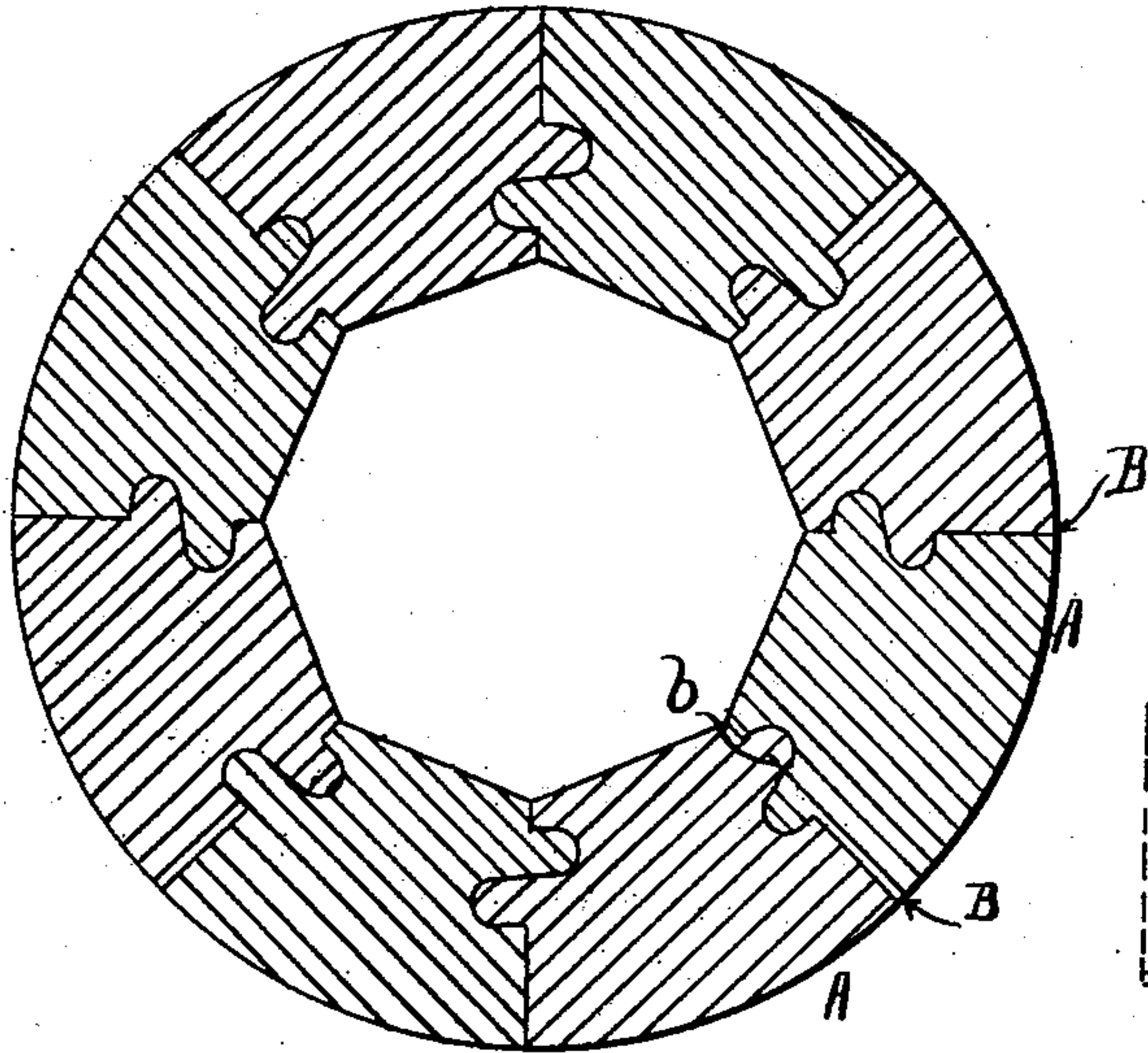


FIG. 5.

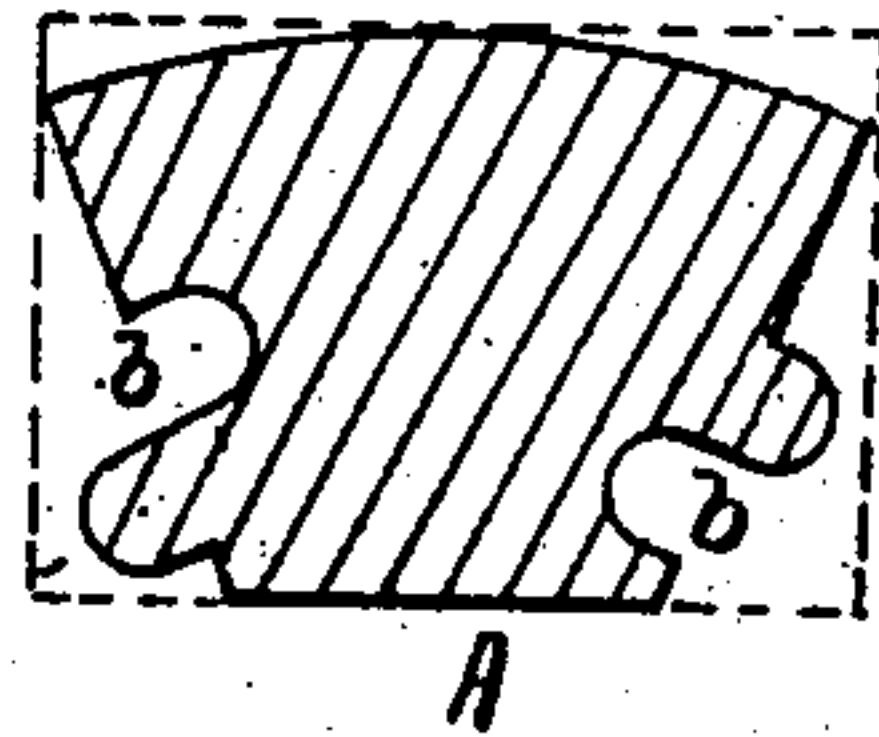


FIG. 2.

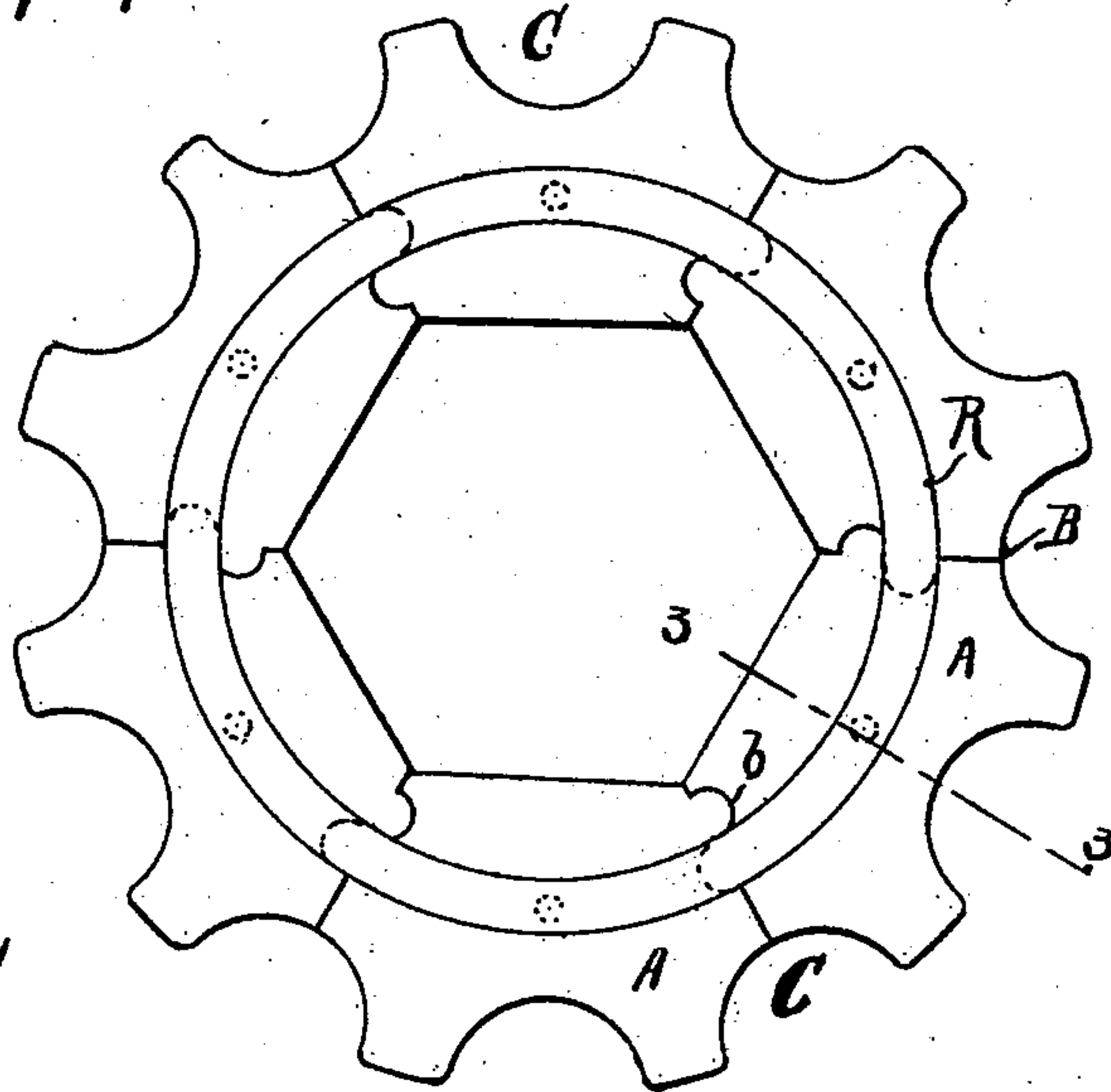


FIG. 4.

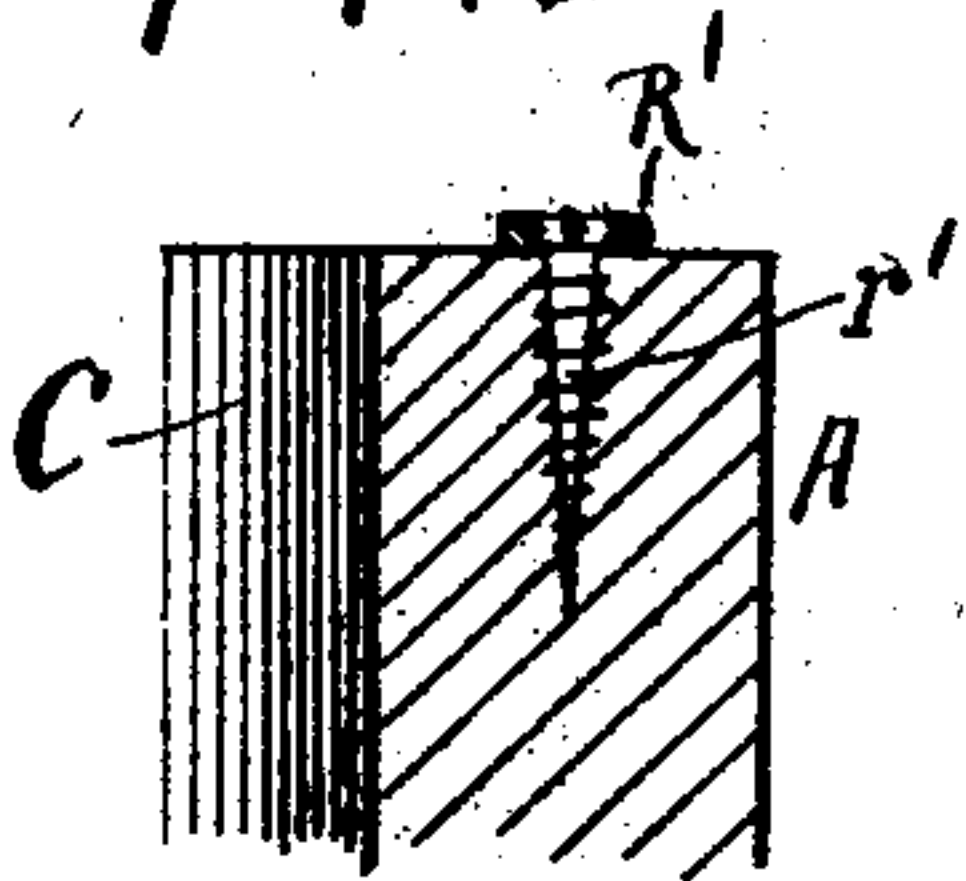
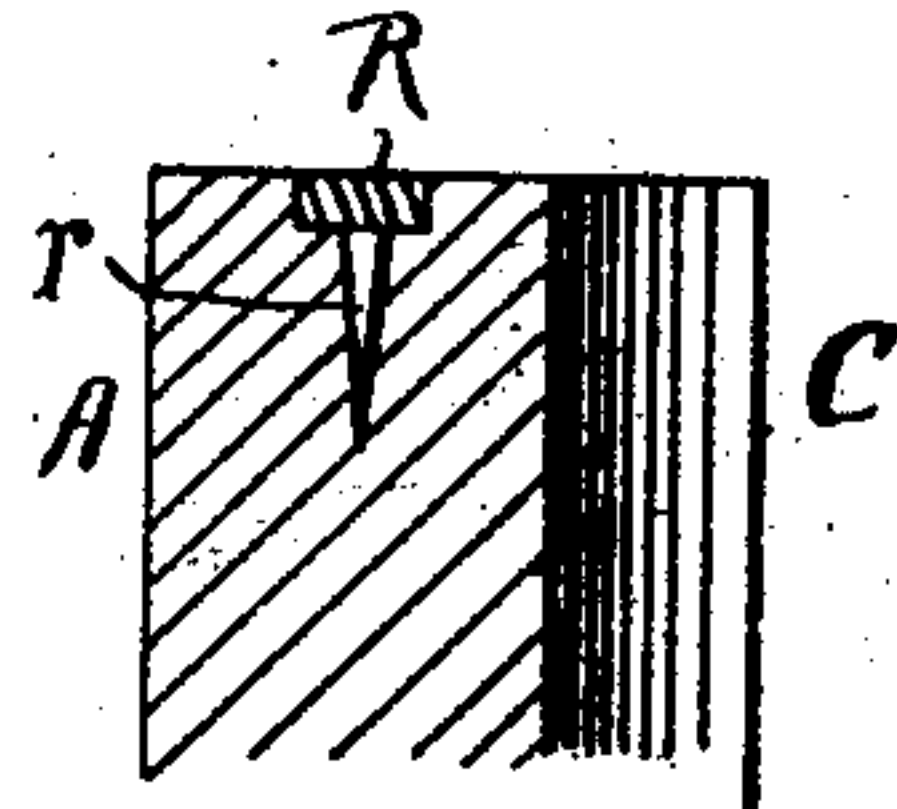


FIG. 3.



WITNESSES:

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WILLIAM M. PEÀRD, OF MOUNT VERNON, NEW YORK.

BUILT-UP COLUMN.

SPECIFICATION forming part of Letters Patent No. 696,188, dated March 25, 1902.

Application filed November 26, 1901. Serial No. 83,793. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM M. PEÀRD, a citizen of the United States of America, and a resident of Mount Vernon, in the county of Westchester, State of New York, have invented Improvements in Built-Up Columns, of which the following is a specification.

The object of my invention is to so construct a built-up column of wooden staves that the staves can be economically manufactured and easily put together, and yet will be firmly held together in the finished column.

In the accompanying drawings, Figure 1 is a sectional view of a wooden column of eight staves fitted together. Fig. 2 is an end view of a modification, a column of six staves; and Figs. 3 and 4 are sectional views illustrating two forms of fastenings, Fig. 3 being a section on the line 3 3, Fig. 2. Fig. 5 is a diagram.

The joints B between adjacent staves A A in my improved column lie in planes radiating from the axis of the column, each plane being, however, broken by an ogee *b* nearer to the inner faces of the staves than to the exterior and one half of the ogee extending to one side of the radial plane and the other half to the other side of said plane. This gives a very strong joint, not only because of the extended surface for the glue, but also because of the tongues and grooves extending to opposite sides of the general plane of the joint, while at the same time the adjacent staves can readily be fitted together sidewise instead of having to drive one longitudinally or endwise into the next, as is the case with dovetail joints. The advantage of having the ogee part *b* near the center is that it may not interfere with the subsequent cutting of the fluting-grooves C on the exterior circumference of the column, as shown in Fig. 2, for instance. A further advantage of having the ogee *b* near the inside of the stave is that I am thereby enabled to cut the ogee with deep tongues and grooves from a log of, say, a square section, Fig. 5, with less waste than if such tongues and grooves were nearer the outer face of the stave.

The curves of the ogees in the successive

joints around the column stand in like directions, so that all the sections of the column are made exactly alike.

In order to insure the firm holding of the staves together in the finished column, I provide at each end of the column a metallic securing-ring R R', Figs. 2, 3, and 4, which may be fitted into an annular groove turned in the end of the column, as illustrated in Figs. 2 and 3, or it may be simply secured to the end faces of the staves, as at R', Fig. 4. In Fig. 3 I have shown the ring R as provided with spikes *r* to be driven into the wood, while in Fig. 4 the ring R' is shown as held by screws *r'*, passing through openings in the ring into the wood.

I claim as my invention—

1. The herein-described built-up column of wooden staves, the joints between adjacent staves lying in planes radiating from the axis of the column but each broken by an ogee *b* one half extending on one side and the other half on the other side of the main plane and said ogee being near the inner faces of the staves, substantially as described.

2. The herein-described built-up column, comprising wooden staves fitted together and retaining-rings on the end faces of the staves, as and for the purpose described.

3. The herein-described built-up column, comprising wooden staves with tongues and grooves fitted together and retaining-rings on the end faces of the staves, as and for the purpose described.

4. The herein-described built-up column of wooden staves, the joints between adjacent staves lying in planes radiating from the axis of the column but each broken by an ogee *b* extending on opposite sides of said radial plane, the ogees being near the inner faces of the staves and the several sections of the column being alike, substantially as described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

WILLIAM M. PEÀRD.

Witnesses:

F. WARREN WRIGHT,
HUBERT HOWSON.