

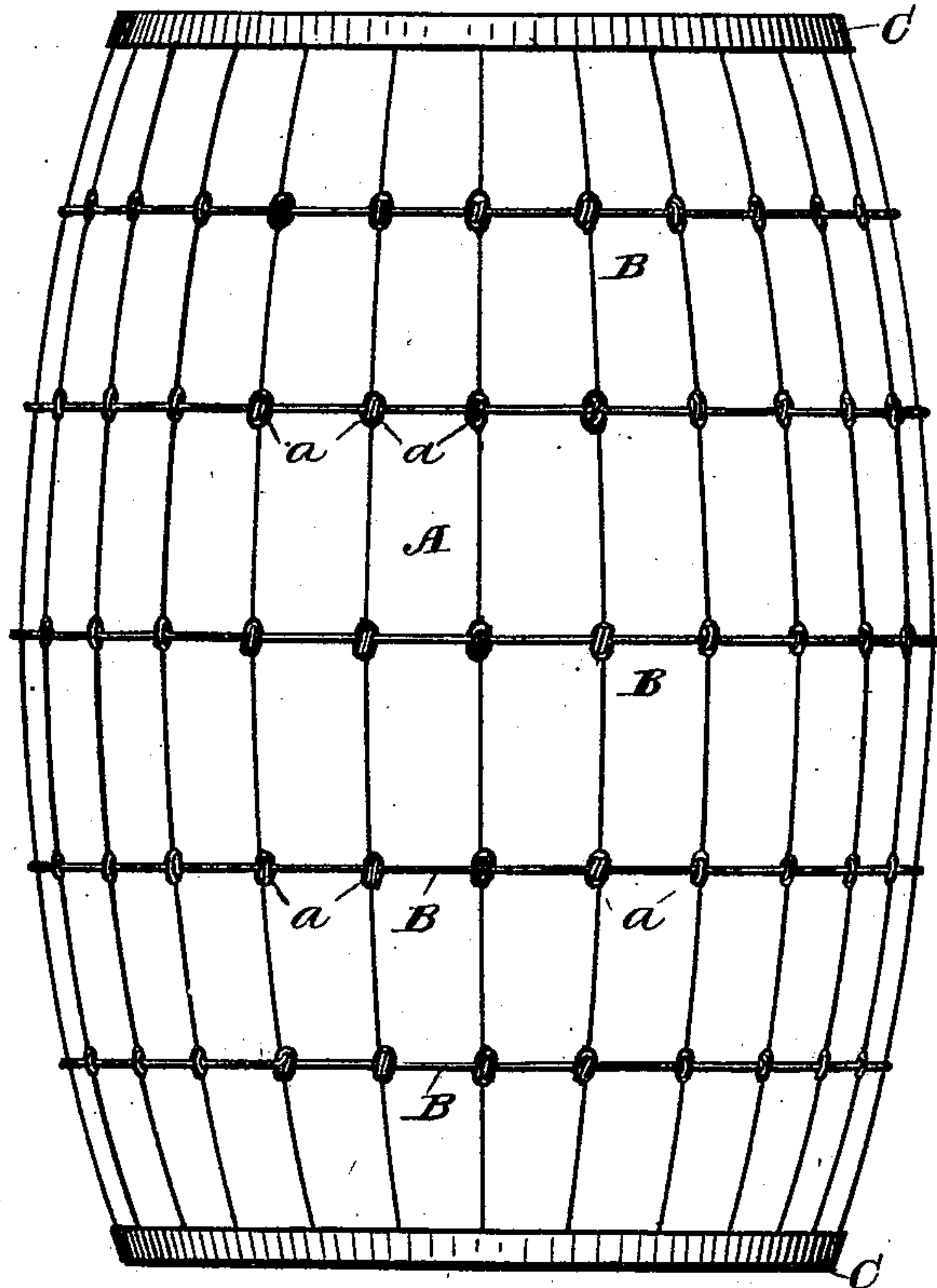
(No Model.)

S. C. WILLIAMS.
BARREL.

No. 512,783.

Patented Jan. 16, 1894.

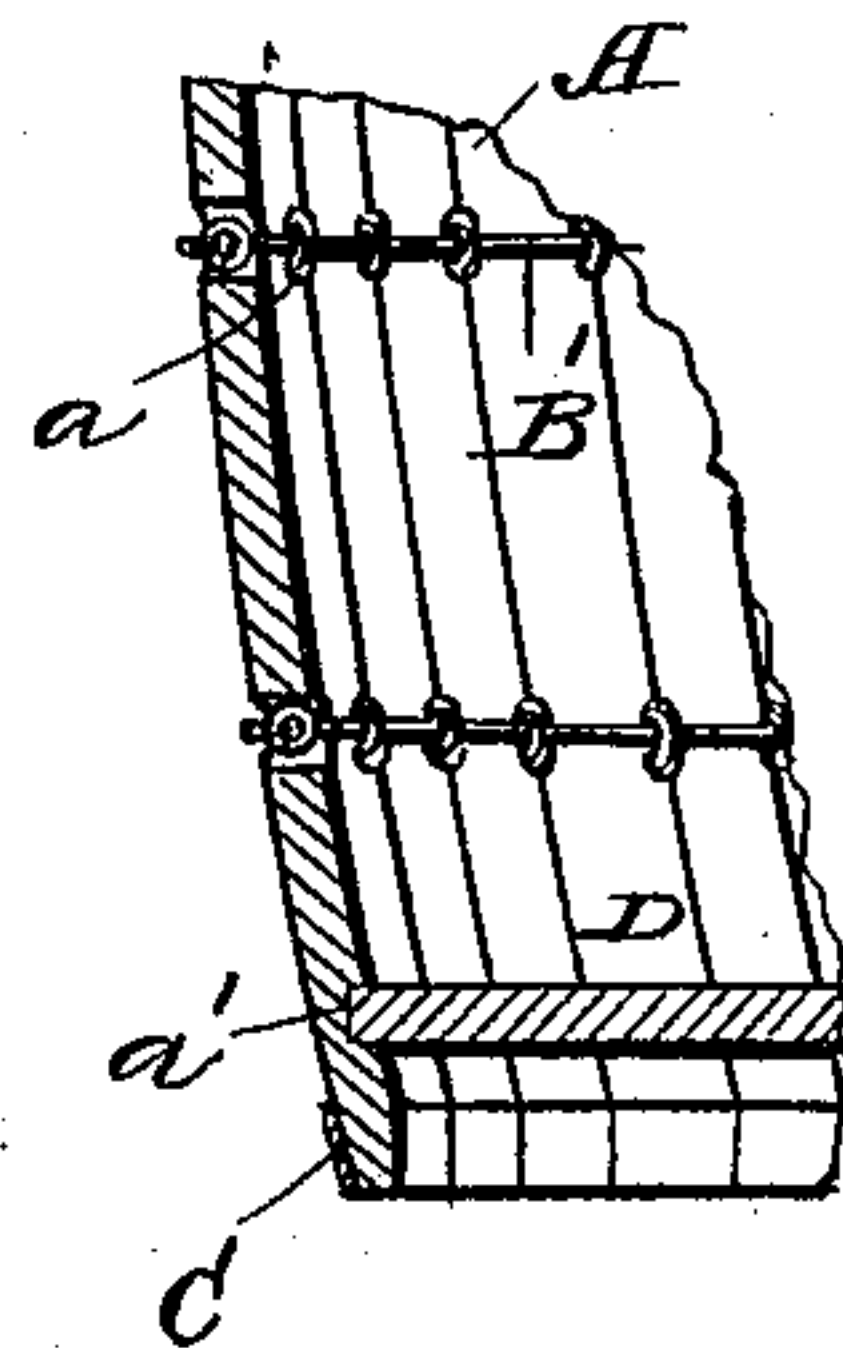
-FIG. I-



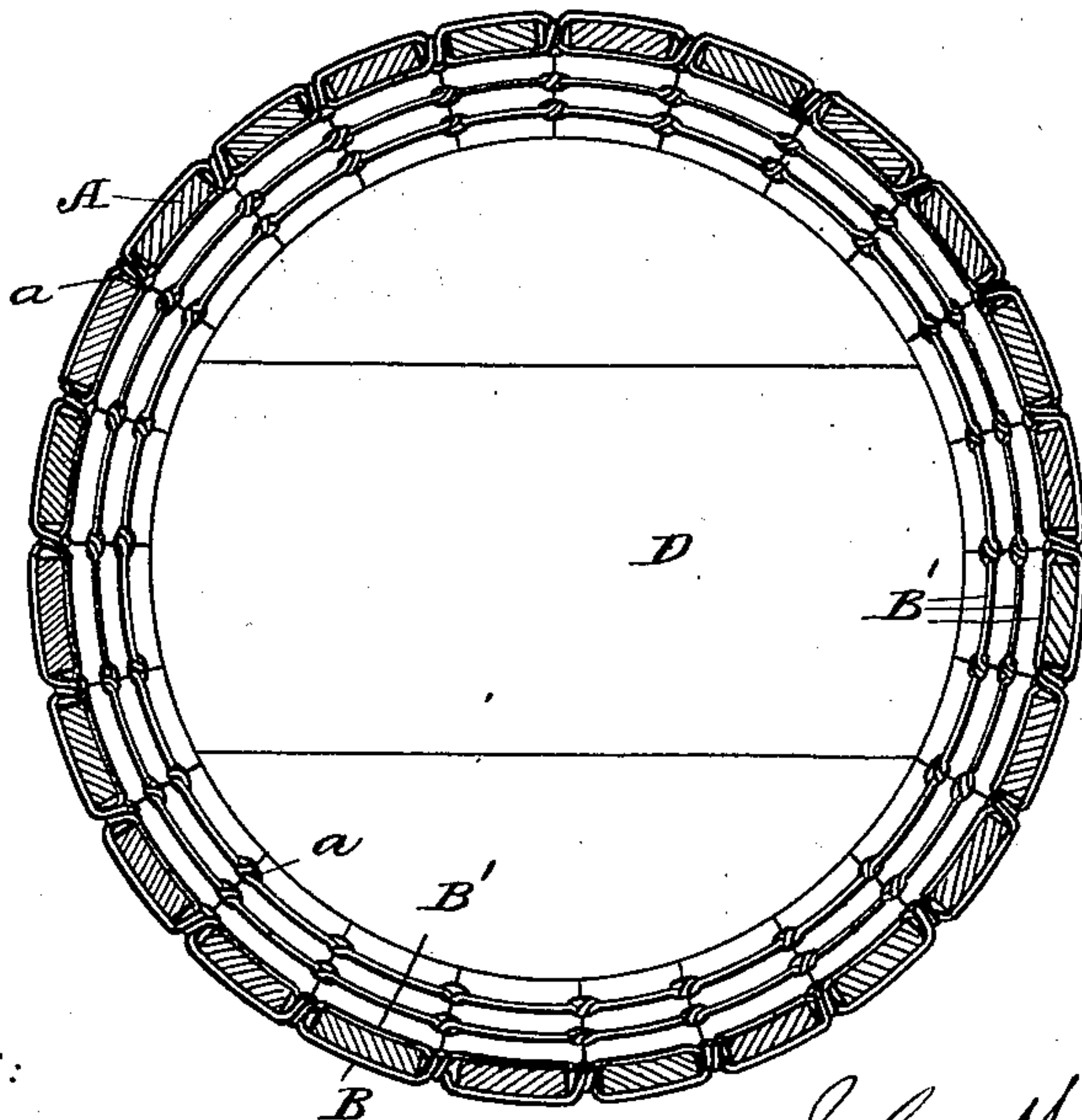
-FIG. III-



-FIG. IV-



-FIG. II-



WITNESSES:

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INVENTOR.

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UNITED STATES PATENT OFFICE.

SYLVESTER C. WILLIAMS, OF EAST LIVERPOOL, OHIO.

BARREL.

SPECIFICATION forming part of Letters Patent No. 512,783, dated January 16, 1894.

Application filed April 22, 1893. Serial No. 471,401. (No model.)

To all whom it may concern:

Be it known that I, SYLVESTER C. WILLIAMS, a citizen of the United States, and a resident of East Liverpool, Columbiana county, and State of Ohio, have invented certain new and useful Improvements in Barrels or Similar Packages, of which the following is a specification, the principle of the invention being herein explained and the best mode in which I have contemplated applying that principle, so as to distinguish it from other inventions.

The annexed drawings and the following description set forth in detail, one mechanical form embodying the invention; such detail construction being but one of various mechanical forms in which the principle of the invention may be used.

In said annexed drawings—Figure I represents a side view of my improved barrel; Fig. II, a horizontal section of the barrel; Fig. III, an edge view of one end of a stave, and Fig. IV, a vertical section of a portion of the end of the barrel, said view illustrating the manner of securing the head in the croze.

The staves A, of the barrel are formed with registering noches, *a*, in their edges, so that the barrel will have circumferential rows of holes, when it is set up. Wires, B, are carried around the barrel at said rows of holes, thus forming wire hoops; and other wires, B', are located within the barrel,—registering with the outer wires B,—and are locked to said outer wires by being twisted one or more times around said outer wires at the holes, or by being otherwise locked to said wires through the holes. The outer and inner wire hoops are thus connected and secured to each other and to the barrel by a species of lock stitch. The ends of the staves are preferably held together by the usual end hoops C.

The staves are formed with a croze, *a'*, at each end, and said croze has its bottom at right angles to its sides, and said sides at such angles to the inner face of the stave, that the

croze will be rectangular to the axis of the barrel, where the latter is set up and windlassed to its proper bilge. The edge of the head D, is square, instead of beveled, as in an ordinary barrel, and such square edge may fit into the square croze and have a more secure seat than if its edge were beveled and the croze of the usual acute angular notch shape.

The wire hooping for the barrel will render the latter elastic, and the barrel cannot easily be stove in or fall to pieces, as the interlaced or interlocked hoop wires will hold the staves in their proper position.

Other modes of applying the principle of my invention may be employed for the mode herein explained. Change may therefore be made as regards the mechanism thus disclosed, provided the principles of construction set forth respectively in the following claims are employed.

I therefore particularly point out and distinctly claim as my invention—

1. In a barrel or similar package, the combination of staves, formed with registering notches in their edges, with wire hoops upon the outside and inside of the barrel and interlocked through the holes formed by said registering notches, substantially as set forth.

2. In a barrel or similar package, the combination of staves formed with registering notches in their edges, said notches forming circumferential rows of holes, wires drawn around the barrel at said rows of holes, and wires drawn within the barrel at said rows of holes and carried around said outside wires through said holes, substantially as set forth.

In testimony that I claim the foregoing to be my invention I have hereunto set my hand this 11th day of April, A. D. 1893.

SYLVESTER C. WILLIAMS.

Witnesses:

J. H. BROOKES,

H. E. GROSSHARES.