

(No Model.)

G. W. SHIPMAN, Sr.
KNOCKDOWN BARREL.

No. 549,588.

Patented Nov. 12, 1895.

Fig. 1.

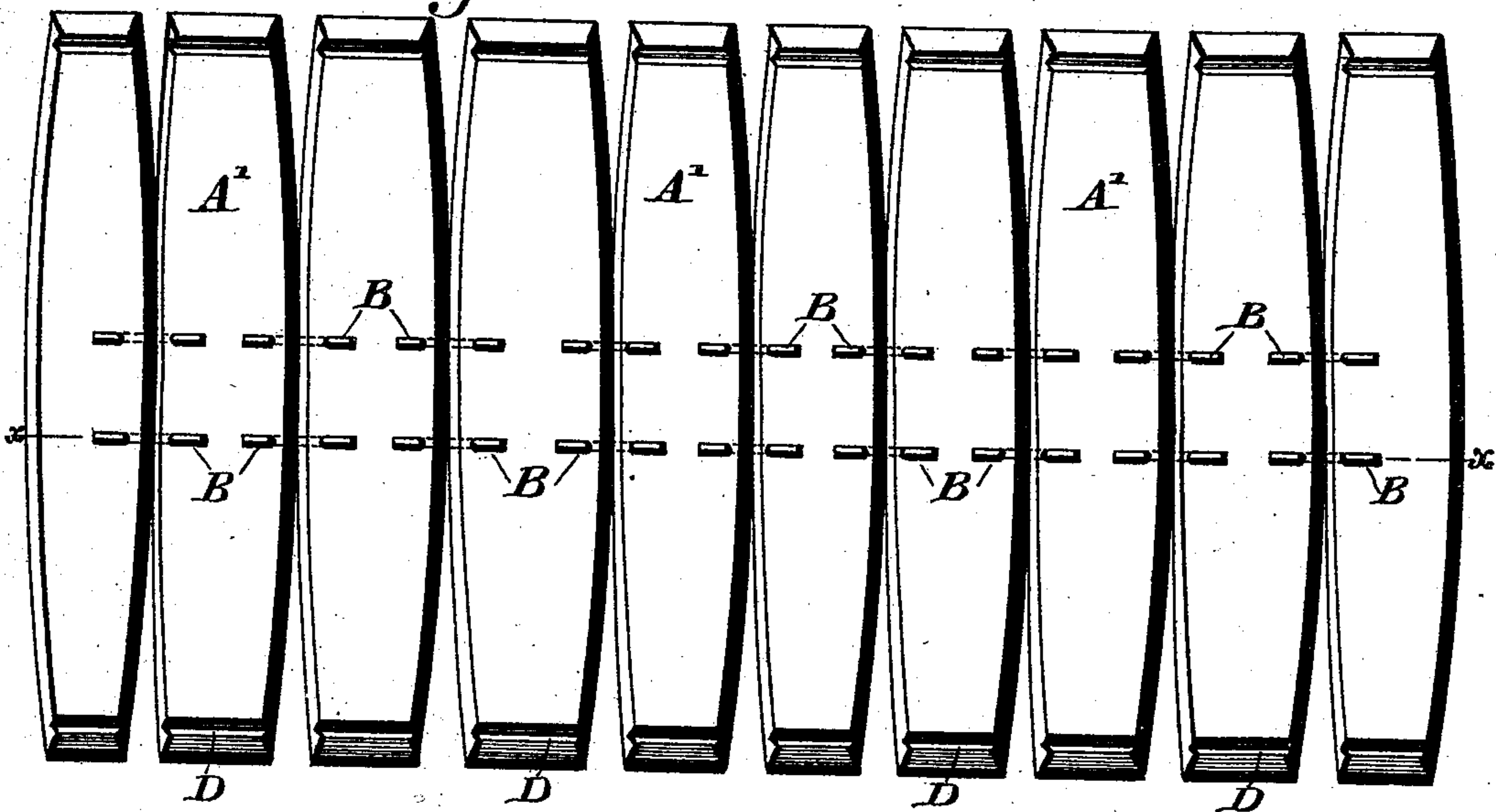


Fig. 2.

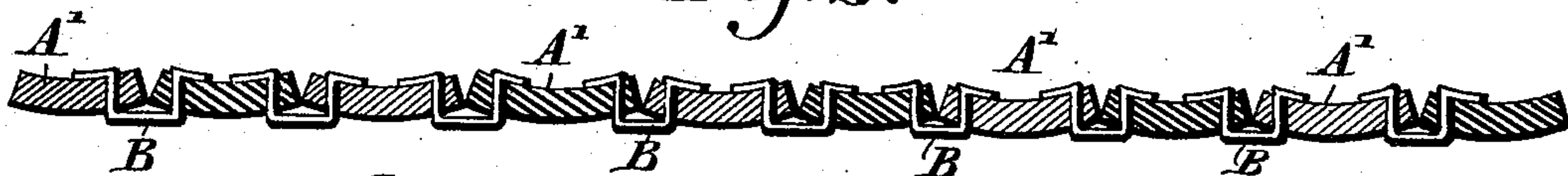


Fig. 3.

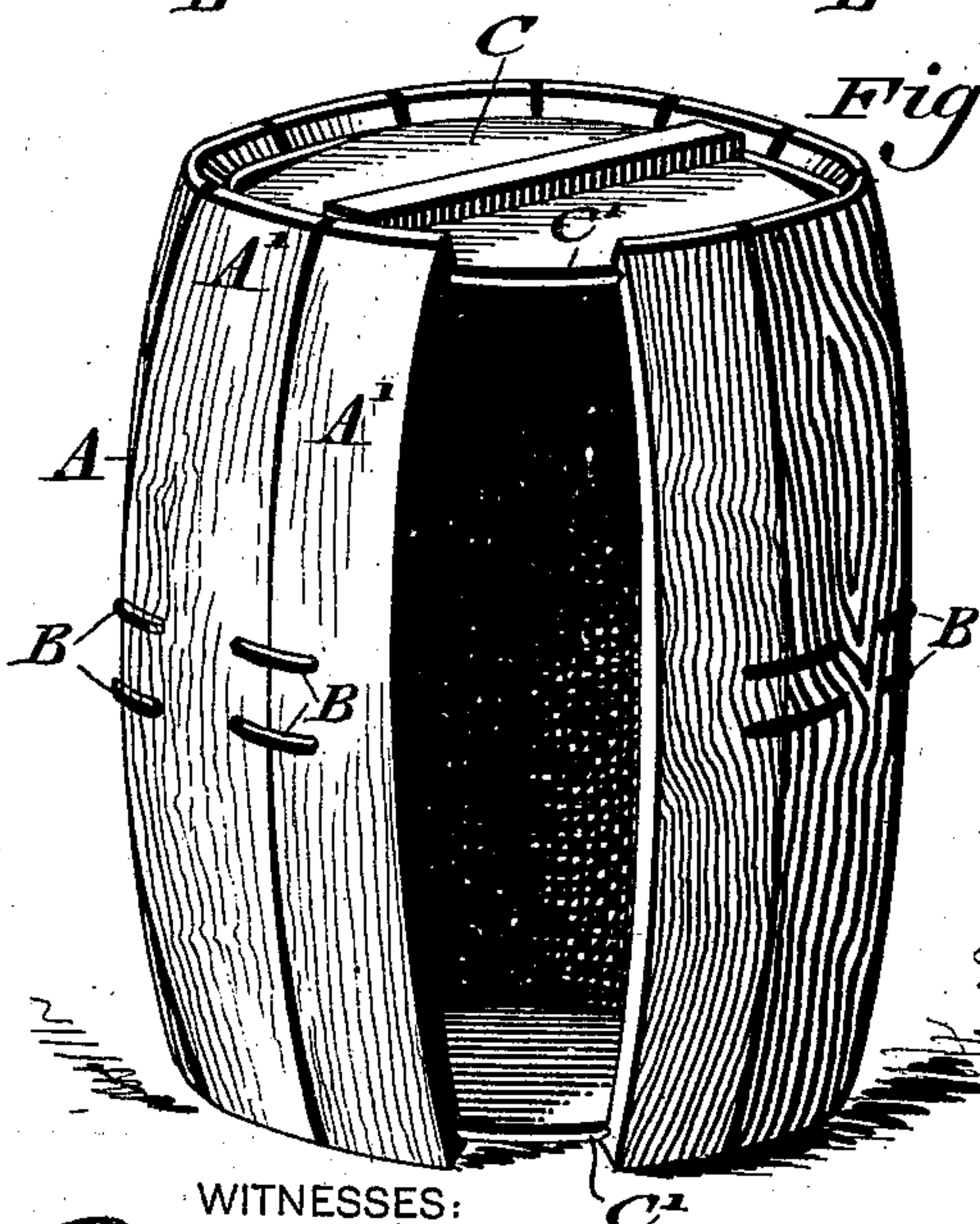
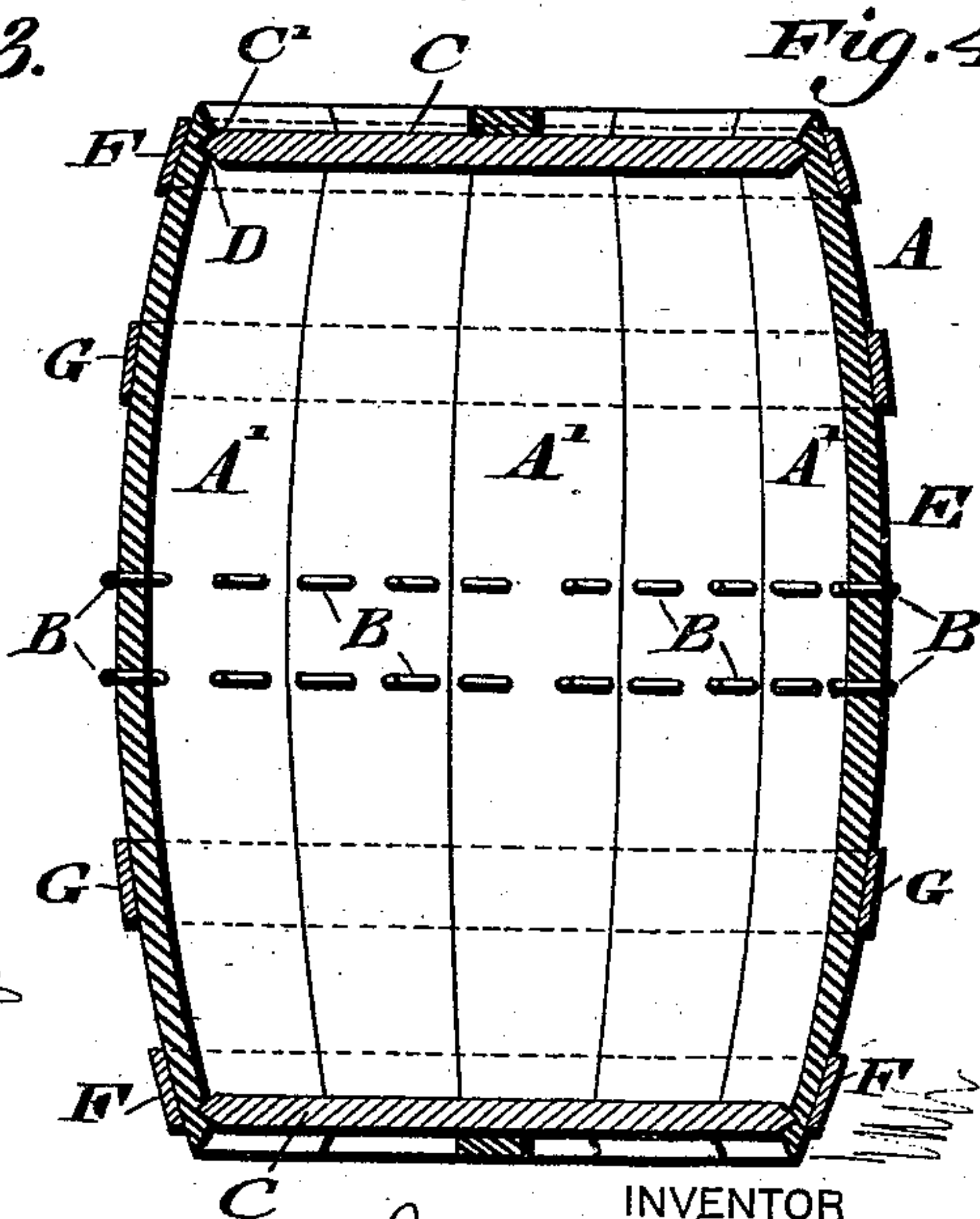


Fig. 4.



WITNESSES:

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GEORGE W. SHIPMAN, SR., OF BELLEVILLE, ILLINOIS.

KNOCKDOWN BARREL.

SPECIFICATION forming part of Letters Patent No. 549,588, dated November 12, 1895.

Application filed July 9, 1895. Serial No. 555,367. (No model.)

To all whom it may concern:

Be it known that I, GEORGE W. SHIPMAN, Sr., a citizen of the United States, residing at Belleville, in the county of St. Clair, State of Illinois, have invented a new and useful Improvement in Knockdown Barrels, which improvement is fully set forth in the following specification and accompanying drawings.

My invention relates to a knockdown barrel; and it consists in forming the body of the same of articulated staves, which are joined together by means of staples of simple construction, said staples being provided with substantially a straight body portion and having each limb thereof deflected at an angle to said body, so as to pierce said staves obliquely, after which the ends of said limbs are bent or clinched, so as to engage said staves in such manner as to form a barrel when the parts are assembled, said staves allowing the body, upon the removal of the hoops, to be spread out flat, maintaining their relative positions to each other and economizing the space required for transportation.

It further consists of novel details of construction, all as will be hereinafter set forth.

Figure 1 represents a view of the body of a knockdown barrel embodying my invention, the same being shown in flattened condition ready for shipment, &c. Fig. 2 represents a section on line *xx*, Fig. 1. Fig. 3 represents a perspective view showing a barrel in the act of being brought together or built up. Fig. 4 represents a vertical section of the completed barrel.

Similar letters of reference indicate corresponding parts in the several figures.

Referring to the drawings, A designates the body of a barrel, the same being formed of the staves A', which are held together by means of the staples B or other similar devices, forming articulations, whereby said staves can be readily caused to assume the flat or set-up positions, as shown, it being noted that said staples B are of simple construction, each having substantially a straight body portion, which has its limbs deflected at an angle thereto, so as to pierce the staves obliquely, whereby the staple is caused to engage said staves with greater firmness and be more effectively clinched than heretofore, and the wood is rendered less liable to crack or

splinter, the extremities of each limb being afterward clinched in any suitable manner, so that a slat fabric is formed, which can be readily bent into cylindrical or other shape or spread out flat, according to requirements.

C designates the heads of the barrel, whose edges C' are adapted to enter the grooves D in the chines of the staves A' when the parts are assembled.

The operation is as follows: The barrel is set up ready for use, as in Fig. 4; but if the same is to be transported in knockdown condition it is only necessary to remove the hoops and the heads, after which the body can be spread out flat, as seen in Figs. 1 and 2, and the same readily packed, stowed away, or transported, while occupying a minimum space.

When it is desired to form the barrel, the body is set up and the heads and hoops are located, and said hoops driven on tight, when a completed barrel E is formed, as seen in Fig. 4.

I desire to call especial attention to the fact that the staples employed have a substantially-straight body portion, which conforms nearly to the contour of the barrel or cask when the same is set up, thereby greatly reducing the cost of manufacture as compared with a knockdown barrel having its staves connected by means of looped or twisted staples provided with eyes or similar devices, and to none of the above-mentioned devices showing the prior art do I herein make any claim.

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

A knock-down barrel, consisting of staves joined together by staples, the latter having substantially a straight-body portion, and the limbs of said staples being deflected at an angle thereto, and piercing said staves obliquely and having their ends clinched against the latter, in combination with heads and hoops adapted to engage said staves when the parts are in assembled position, substantially as described.

GEORGE W. SHIPMAN, SR.

Witnesses:

W. F. KIRCHER,

OTTO W. ROPIEQUET.