

No. 700,654.

Patented May 20, 1902.

D. B. JONES.
COLLAPSIBLE BARREL.

(Application filed Jan. 28, 1902.)

(No Model.)

Fig. 1.

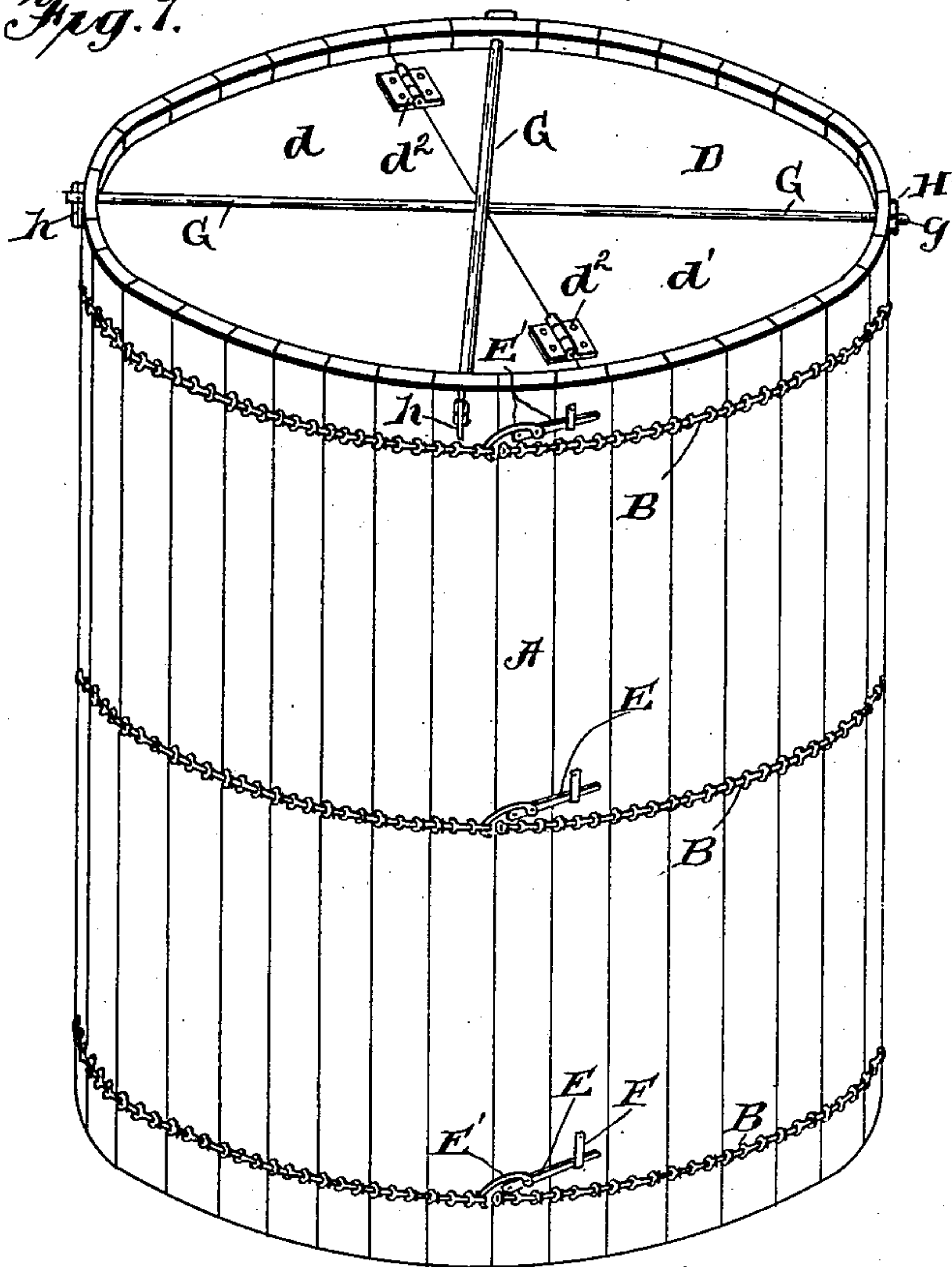


Fig. 3.

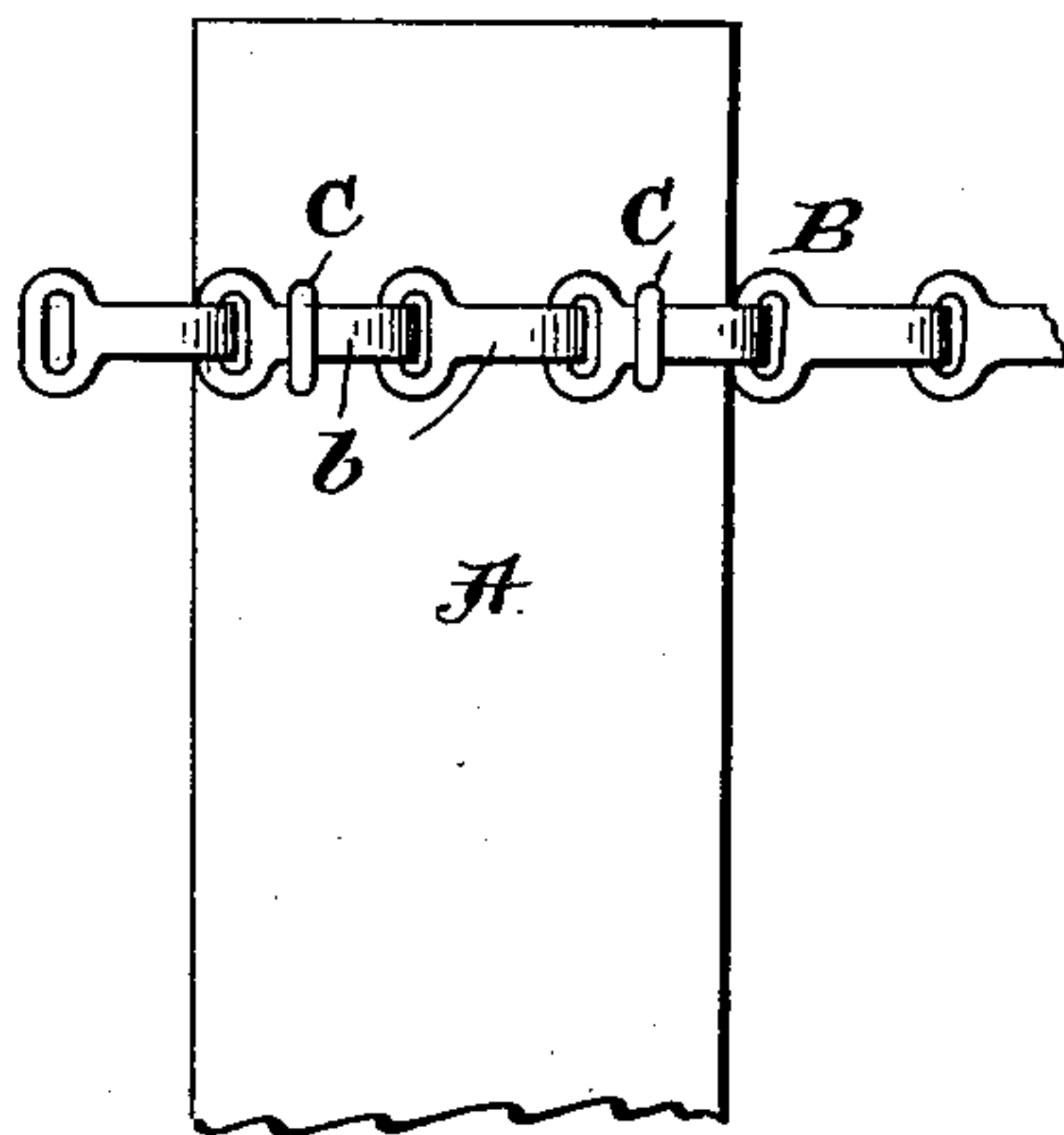


Fig. 4.

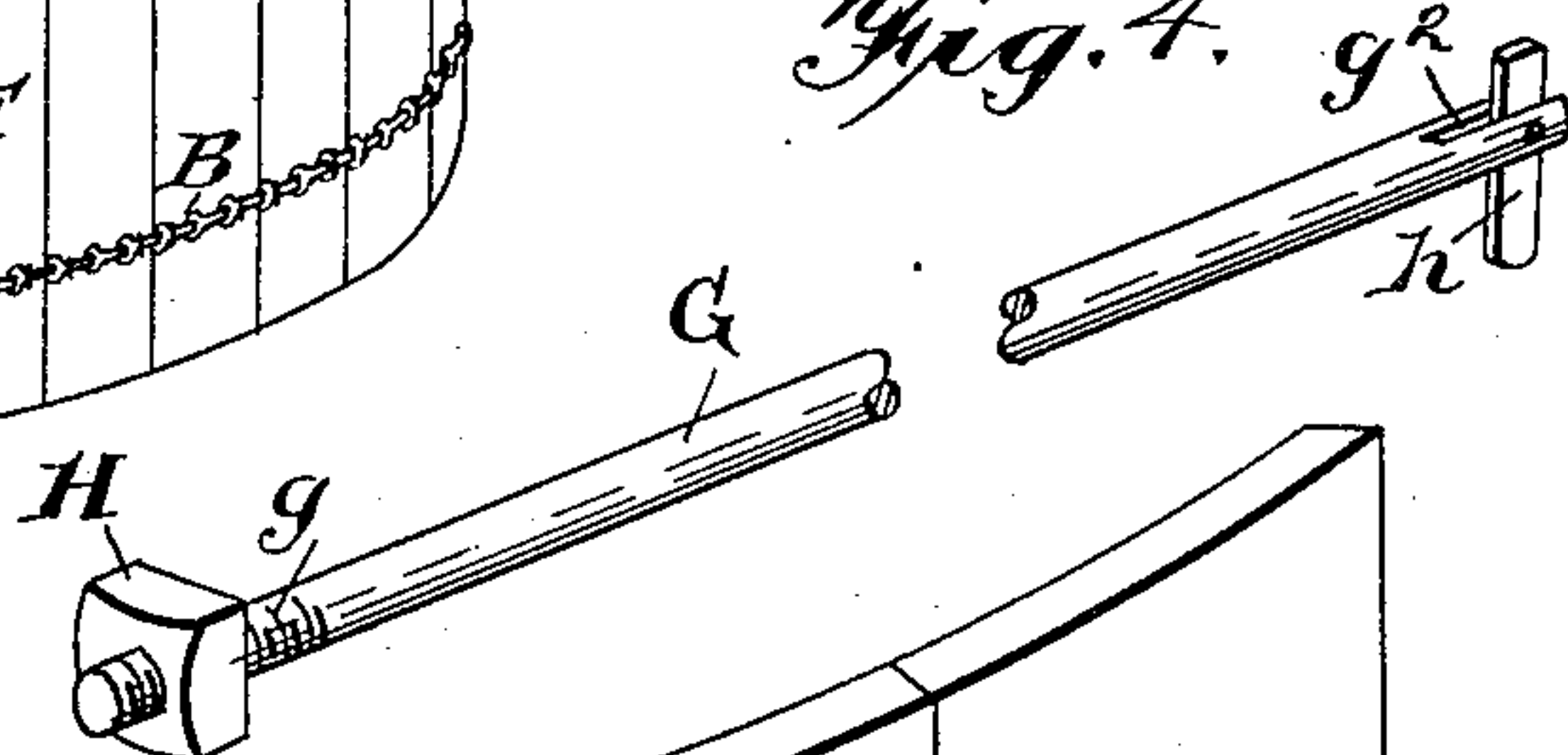


Fig. 2.

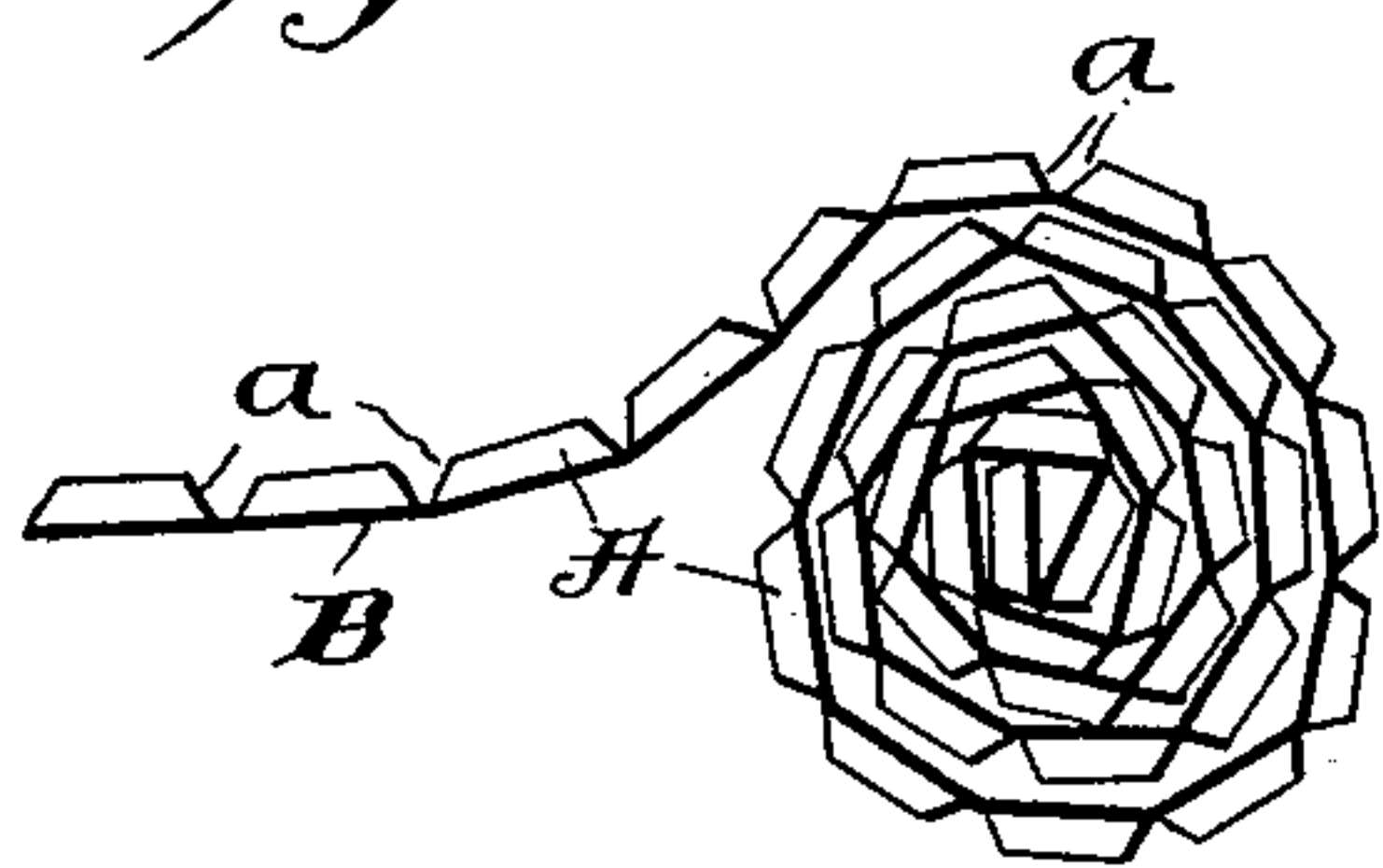
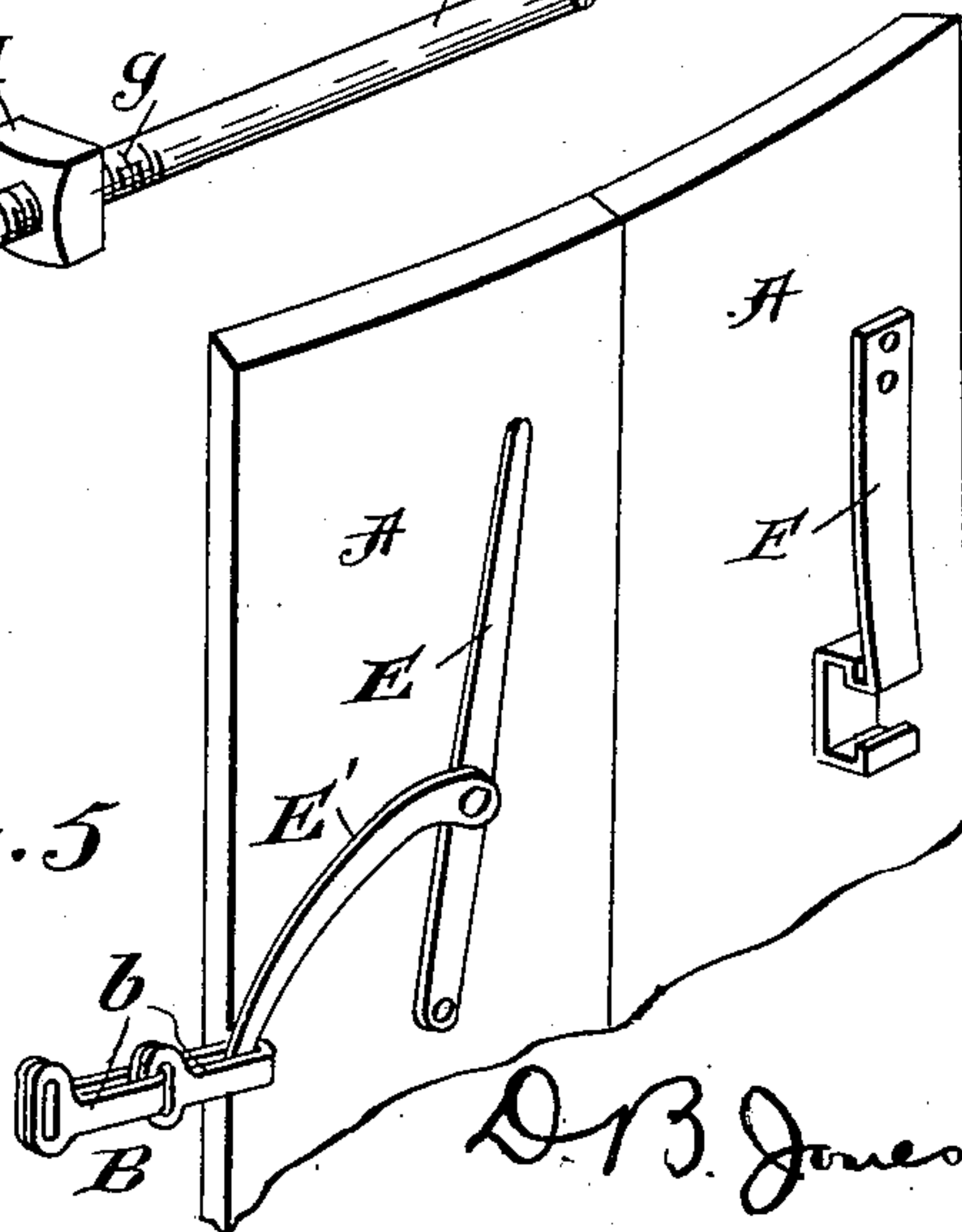


Fig. 5.



Witnesses

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DAVIS B. JONES, OF ROCKYMOUNT, NORTH CAROLINA, ASSIGNOR OF ONE-HALF TO HANNIBAL H. CARR, OF ROCKYMOUNT, NORTH CAROLINA.

COLLAPSIBLE BARREL.

SPECIFICATION forming part of Letters Patent No. 700,654, dated May 20, 1902.

Application filed January 28, 1902. Serial No. 91,641. (No model.)

To all whom it may concern:

Be it known that I, DAVIS B. JONES, a citizen of the United States, residing at Rockymount, in the county of Edgecombe and State of North Carolina, have invented new and useful Improvements in Collapsible Barrels, of which the following is a specification.

My invention relates to improvements in barrels, and more particularly pertains to that class of barrels known as "collapsible" or "knockdown" barrels.

The object of my invention is to provide a barrel in which the staves are secured together by a chain or rope and when knocked down the staves can be readily rolled into a compact bundle for the purpose of shipping or storing.

Another object of my invention is to provide a knockdown barrel which can be readily and quickly set up or knocked down and at the same time forming a cheap, simple, and substantial barrel.

In the accompanying drawings, Figure 1 is a perspective view of my barrel set up. Fig. 2 is an end view of the stave rolled for shipping or storing. Fig. 3 is an enlarged view of the stave-securing chain. Fig. 4 is an enlarged view of the clamping-bolts. Fig. 5 is an enlarged view of a portion of the barrel, showing the clamping-levers and the means for locking the same.

Referring now to the drawings, A represents the staves, which, as shown in the drawings, are preferably straight for the purpose of forming a more compact bundle when rolled. The edges of said staves are beveled inwardly, as shown at *a*, in order that the adjoining edges will firmly abut each other when the barrel is set up, and thus form practically a tight solid barrel, although this forms no part of my invention, and they could be spaced apart when a barrel of that character is desired. The said staves are connected by three cables or chains B, one at each end and one in the center, although any desired number of cables or chains may be used. I preferably use chains, and they are of the form shown in Fig. 3. The links *b* of the chain B are so arranged and of a length so that there are three links opposite each stave, and the

two outside links are secured to the stave by staples or eyes C. The said staples or eyes passing around the central portion of the link and by so arranging the staves on the chain, it will be readily seen that it makes a flexible connection between the chain and stave, so that it can be readily rolled, yet it prevents of any twisting of the stave on the chain.

The inside of the staves A near the top and bottom are provided with registering grooves, which form a circumferential groove when the barrel is set up and which are adapted to receive and support the heads D of the barrel. The said heads are made in two sections *d* and *d'*, which are hinged together at *d*² for the purpose of folding, and thus forming a more compact bundle.

For the purpose of clamping the staves around the heads I provide the edge at one end of the roll with a lever E adjacent each chain or cable. The said lever is pivoted at its lower end to the stave, and has pivoted thereto above its pivotal point, a hook E', which is adapted to engage the cable or chain at the opposite end of the roll, and by swinging the said lever downward the chain is drawn forward and the stave firmly clamped around the heads. Opposite each lever and carried by the staves is a spring-catch F, which is adapted to engage the outer end of the lever and firmly hold it in the downward position when the barrel is set up. The said staves are provided with transverse oppositely-arranged openings above the heads, and for the purpose of more firmly clamping the staves around the heads I provide bolts G, which pass through said openings. The said bolts have one end screw-threaded at *g* and carry a clamping-nut H, and the opposite end is bifurcated, as shown at *g*², and pivotally mounted within said bifurcated end is a bar *h*, which practically forms a continuation of the bolt. In this position it is passed through the opening in the staves at one side of the barrel and extends across the head and through the opening in the opposite side, and the said bar *h* is then turned at right angles to the bolt, thus forming a head or clamping-surface, and the nuts on the opposite end of the bolts are screwed up, thus firmly clamp-

ing the staves around the heads. I have shown two of said bolts at each end of the barrel, although any desired number may be used.

5 To knock down the crate, the operation is as follows: The nuts H are released to allow the bolts to be drawn through, so that the bars may be swung in a position to form a continuation of the bolts, and then they may
10 be entirely withdrawn from the openings in the staves. The levers E are released from the catches F and swung upward, and the hook carried thereby is released from the chain or cables, and the heads of the barrel
15 will drop, and it is ready to be rolled. In rolling the staves the cables or chains are necessarily on the inside, and the clamping-bolts are rolled between said staves. The heads are folded in the center and packed
20 separately.

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

1. In a collapsible barrel, the combination
25 with a body portion, of heads supported thereby, chains passing around said body portion and secured thereto, levers pivoted to said body portion and hooks carried by the levers and adapted to engage the links of
30 said chains, substantially as described.

2. In a collapsible barrel, the combination with heads, of a body portion formed of staves, chains connecting said staves, levers carried by the staves adjacent one end of the chains,
35 and hooks carried by the levers and adapted to engage the opposite links of the chains, substantially as described.

3. In a collapsible barrel, the combination with heads, of a body portion formed of staves, chains connecting said staves, pivoted levers
40 carried by the staves adjacent the ends of the chains, hooks carried by the levers and adapted to engage the links at the opposite ends of said chains, and means for holding said
45 levers in a downward position, substantially as described.

4. In a collapsible barrel, the combination with a body portion formed of staves, heads carried thereby, chains connecting said staves,
50 detachable means for drawing the ends of the chains together, the said staves having openings on the outside of the heads, bolts passing through said openings and having one end screw-threaded, a clamping-nut on said
55 screw-threaded end, and a pivoted head car-

ried by the opposite end of the said bolt, substantially as described.

5. In a collapsible barrel, the combination with heads, of a body portion supporting said heads, said body portion composed of staves
60 connected together by chains, pivoted levers carried by the staves adjacent the ends of the chains, hooks carried by the levers above their pivotal points and adapted to engage the opposite ends of the chains, and spring-
65 catches carried by the staves and adapted to hold the levers in a downward position, substantially as described.

6. In a collapsible barrel, the combination with heads, of a body portion composed of
70 staves connected together by chains, removable clamping-bolts passing through the staves and extending transversely across the heads on the outside thereof, pivoted levers carried by the staves adjacent the ends of
75 the chains, hooks pivotally connected to the levers above their pivotal points and adapted to engage the opposite ends of the chains and spring-catches carried by the staves back of the levers and adapted to hold the levers
80 in a downward position, substantially as described.

7. In a collapsible barrel, the combination with heads, of staves forming a body portion, heads supported by said staves, chains pass-
85 ing around said staves and arranged with three links opposite each stave, staples securing the two outside links to each stave, pivoted levers carried by the staves adjacent the ends of the chains, hooks carried by the
90 levers and adapted to engage the opposite ends of the chains, and spring-catches adapted to hold the lever in a downward position, substantially as described.

8. In a collapsible barrel, the combination
95 with heads, of staves forming a body portion and supporting said heads, chains passing around said staves, and arranged with three links opposite each stave, staples securing the two outside links to each stave, and means
100 for drawing the ends of said chains together, substantially as described.

In testimony whereof I have hereunto set my hand in the presence of two subscribing witnesses.

DAVIS B. JONES.

Witnesses:

T. T. THORNE,
P. S. HICKS.