

(No Model.)

L. L. FRIERSON.
COVER FOR PACKING VESSELS.

No. 410,512.

Patented Sept. 3, 1889.

FIG. 1.

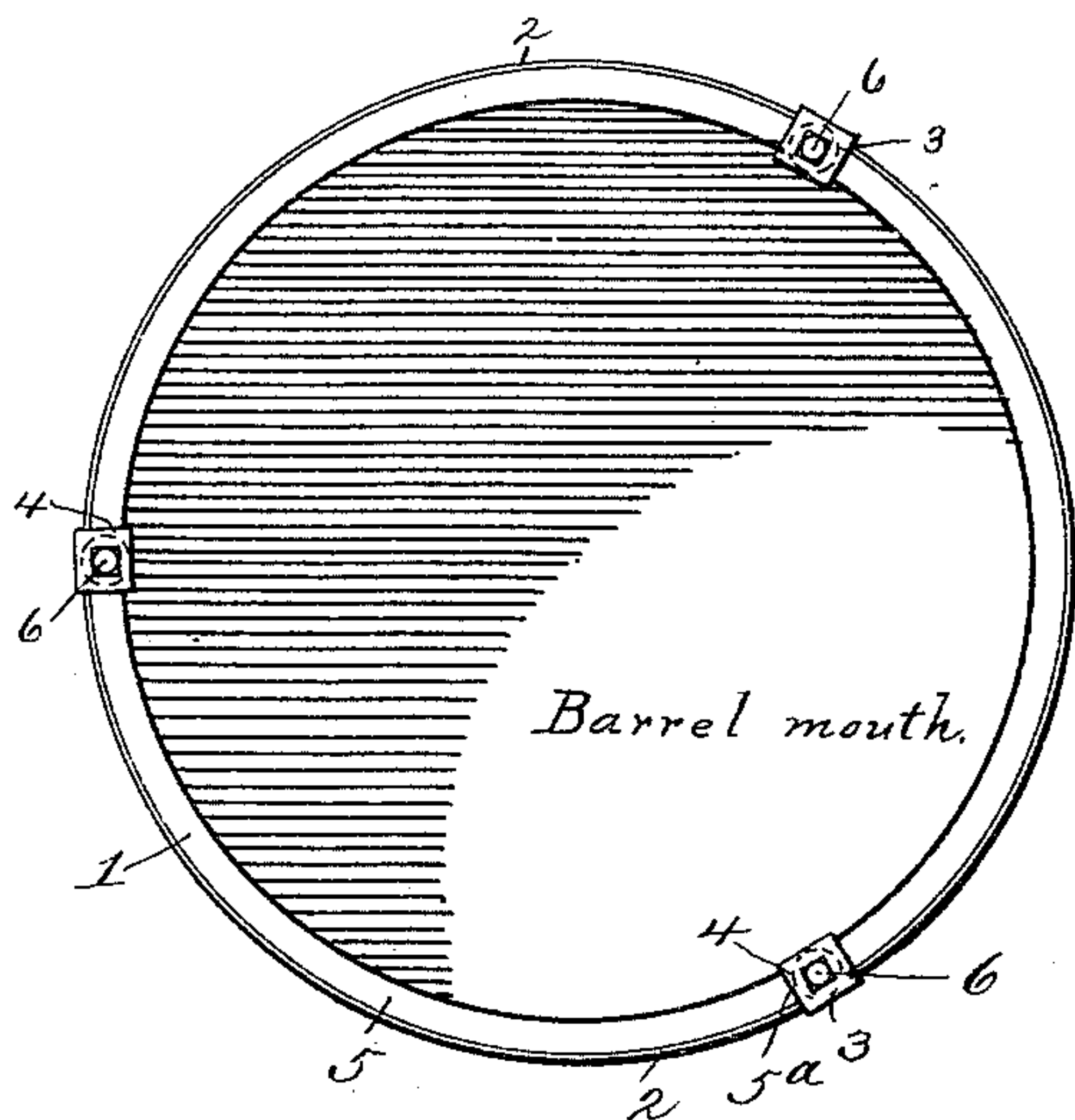


FIG. 2.

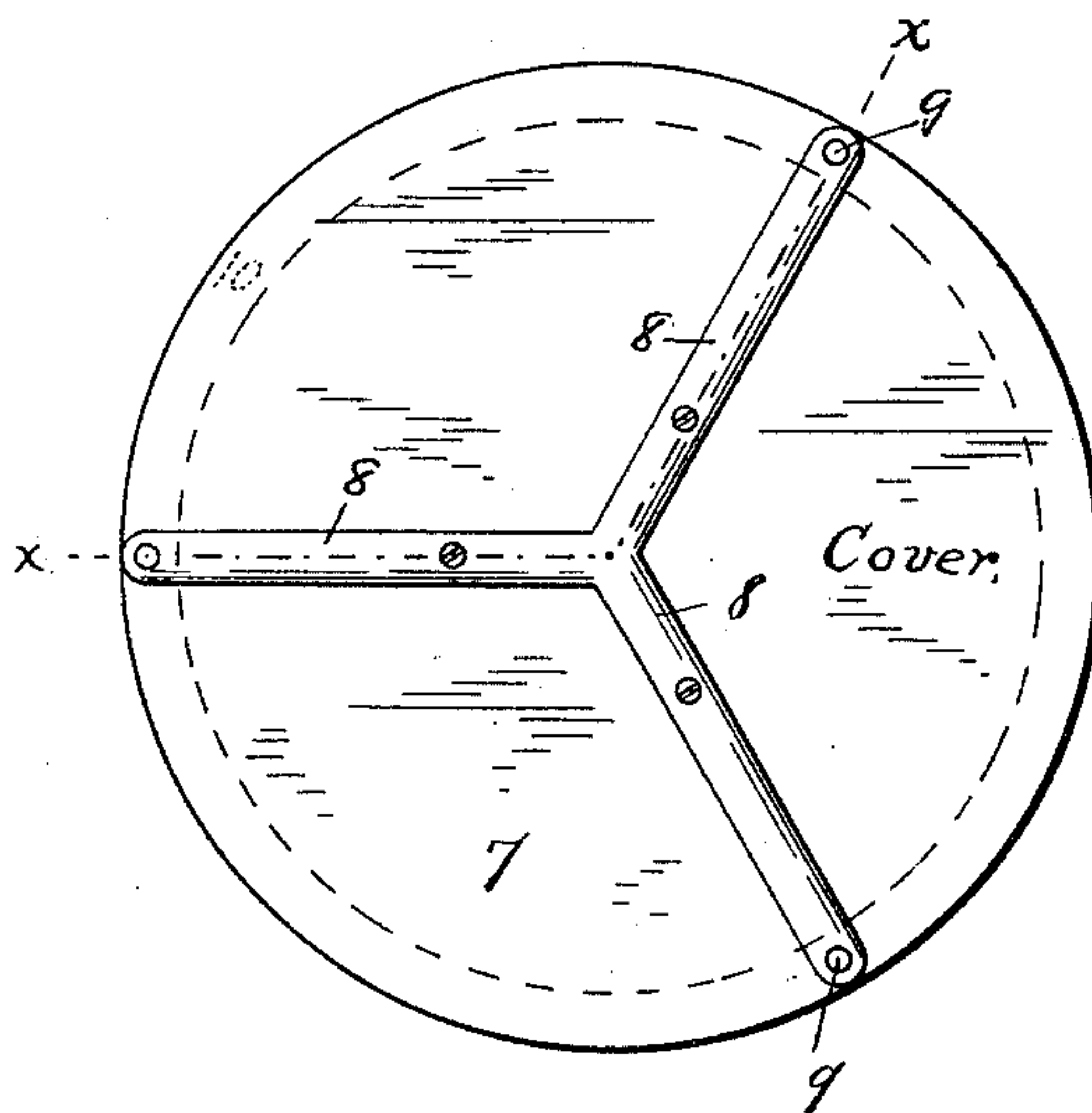


FIG. 3.

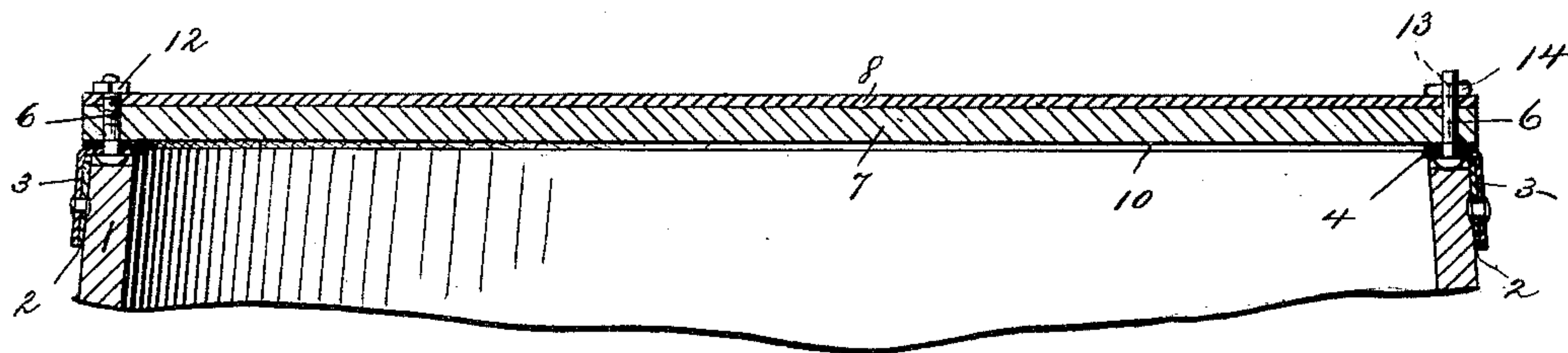
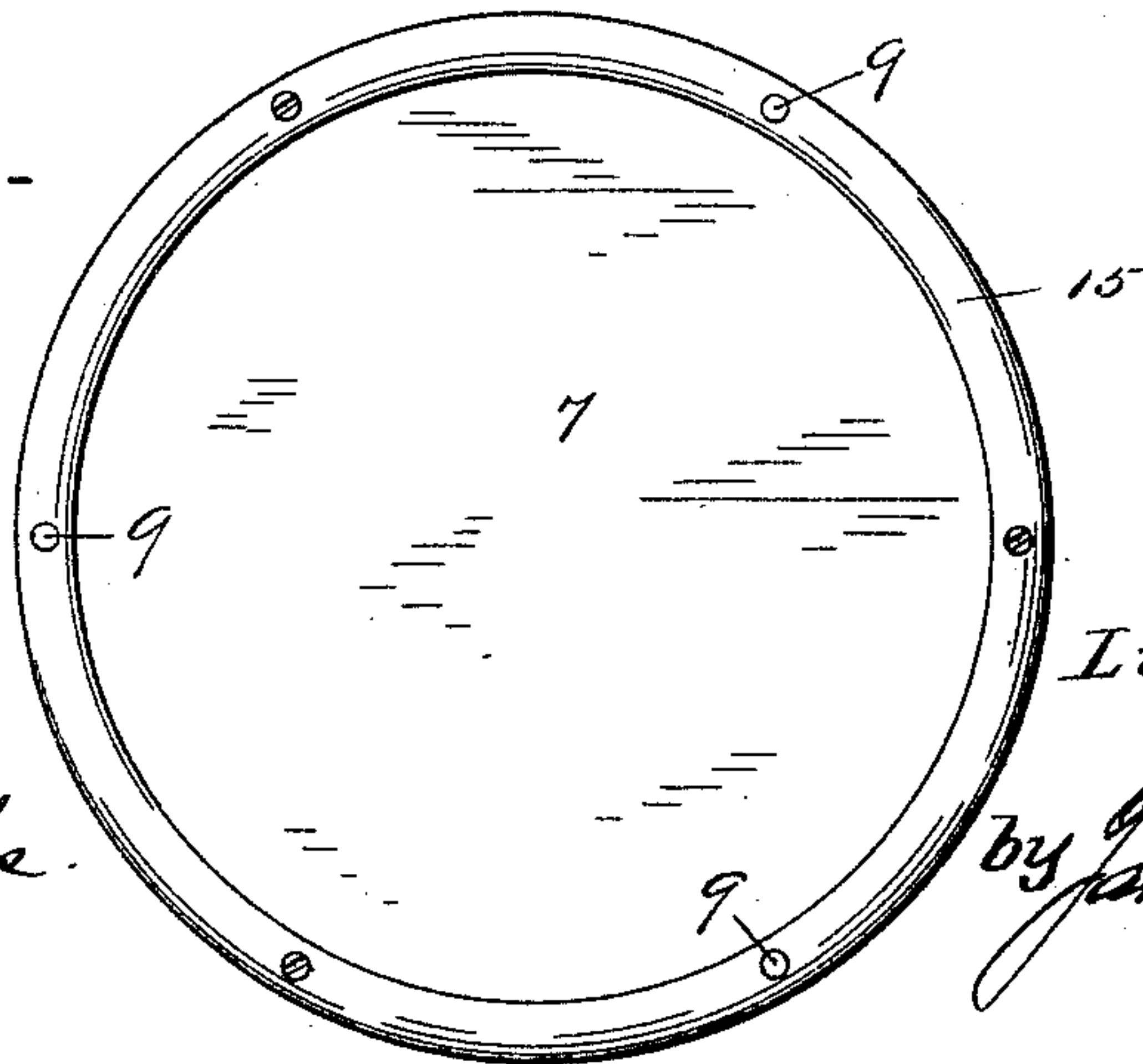


FIG. 4.



Witnesses.

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UNITED STATES PATENT OFFICE.

LUTHER L. FRIERSON, OF MOUNT PLEASANT, TENNESSEE.

COVER FOR PACKING-VESSELS.

SPECIFICATION forming part of Letters Patent No. 410,512, dated September 3, 1889.

Application filed February 5, 1889. Serial No. 298,766. (No model.)

To all whom it may concern:

Be it known that I, LUTHER L. FRIERSON, a citizen of the United States, residing at Mount Pleasant, in the county of Maury and State of Tennessee, have invented new and useful Improvements in Covers for Packing-Vessels, of which the following is a specification.

My invention relates to packing barrels, boxes, or vessels, and other similar receptacles, and the purpose thereof is to provide a simple, inexpensive, and easily-operated fastening for the covers of such receptacles, whereby a perfectly tight joint may be formed between the upper edge of the barrel or other vessel and the lower face of the cover without specially dressing or finishing the engaging-surface and edge to secure a close and uniform fit. It is the further purpose of my invention to provide a simple and easily-operated fastening for the covers of vessels of the class mentioned, whereby a substantially hermetical seal is applied to the receptacle to prevent the rapid melting of the ice, the cover being flush, or nearly so, with the exterior face of the barrel or other receptacle.

The invention consists in the several novel features of construction and new combinations of parts hereinafter fully set forth, and then pointed out in the claims.

In the accompanying drawings, Figure 1 is a plan view of a packing barrel or vessel with the cover removed. Fig. 2 is a plan view of a cover of a packing-barrel or other receptacle, showing my invention applied thereto. Fig. 3 is a central vertical section, on line $x x$ of Fig. 2 of a packing-barrel or other receptacle with the cover attached thereto, said figure being upon an enlarged scale. Fig. 4 is a plan view of a modification of the strengthening device of the cover.

In the said drawings, the reference-numeral 1 designates a barrel, vessel, or other similar receptacle of any desired form, size, and material, the chief purpose thereof being to provide means for packing perishable food products for transit in such manner that they may be subjected to a reduced temperature. I ordinarily construct said barrel of the usual cylindrical shape; but I may apply my inven-

tion to a box or other receptacle of any form. When the barrel form is employed, the vessel may be made of staves surrounded by hoops, and at the upper end thereof I apply a metal hoop 2, riveted to the staves at suitable intervals and having its upper edge flush, or very nearly so, with the edge of said barrel.

Upon the hoop 2, at suitable intervals, I rivet metallic plates 3, which are bent inward over the upper edge of the hoop and extend to or a little beyond the inner face of the staves of the barrel, the inwardly-bent portions 4 lying in recesses 5^a cut in the edge 5 to bring their upper surfaces substantially flush with the edge. In openings in these portions 4 are inserted bolts 6, which stand erect upon the edge of the vessel, their upper ends being threaded to receive nuts. The heads of these bolts lie in the recesses cut in the edge 5 to receive the inwardly-turned plates 4.

The numeral 7 designates the cover, which is of wood or any other suitable material, cut to a shape corresponding with that of the vessel to which it is applied, and of such size that its edge projects but little, if at all, beyond the outer face of the barrel or receptacle. Upon this cover I place a spider 8, which may have three or more arms secured to the outer face of the cover. These arms may project slightly beyond the edge of the cover, if desired, and near the end of each is formed an opening 9, passing down through the cover and adapted to receive one of the bolts 6, as shown in Fig. 3.

Upon the inner face of the cover is attached an annulus 10, of rubber, felt, or any suitable material, which lies in such proximity to the edge that it will rest upon the edge of the vessel when the cover is in place.

When on the barrel, the bolts 6 project through the openings 9 in the cover and in the ends of the spider 8, and nuts 12 are turned on the extremities which project above the top of the arms of the spider, thereby drawing the packing-annulus 10 down on the edge 5, forming a perfectly close and substantially air-tight joint.

Instead of the nuts 12, I may form a slot 13 in each of the bolts 6, and insert in said slots wedges 14, by which the same effect may be

produced. I may also dispense with the spider 8 and substitute therefor a flat metallic annulus 15, having openings 9 to receive the bolts 6; or I may use separate arc-shaped or segmental metallic pieces or plates attached to the cover and receiving the bolts.

What I claim is—

1. A barrel or other packing-receptacle having a metal hoop or binding flush, or nearly so, with its edge, metallic plates fastened to said hoop and bent inward over the same to lie in recesses in the edge, said plates receiving headed bolts, and a cover having apertures and bolts extending through the same, and means engaging said bolts for forcing the cover against the edge of the receptacle, substantially as described.

2. A barrel or other receptacle having a metallic hoop or binding flush, or nearly so, with its upper edge, metallic plates riveted to said hoop, bent over the same and lying in recesses in the edge, a cover having a packing-annulus and provided with a metallic frame or spider which receives the heads of the bolts lying under the metallic plates on

the hoop, said bolts passing up through the plates and openings in the cover and frame or spider, and means engaging the bolts for forcing the cover against the edge, substantially as described.

3. The combination, with a barrel or other packing-receptacle having a metallic hoop riveted to the upper edge, said hoop provided with metallic plates bent inward over its edge and lying in recesses in the edge of the vessel, of a cover having a spider fastened to its upper face and provided with apertures in the ends of the arms of the spider, which receive bolts whose heads lie under the inwardly-bent plates and which pass through holes in the plates and the cover, and nuts turned on said bolts, substantially as described.

In testimony whereof I have affixed my signature in presence of two witnesses.

LUTHER L. FRIERSON.

Witnesses:

JAMES L. NORRIS,
VINTON COOMBS.