

No. 689,790.

Patented Dec. 24, 1901.

A. BURSON.
PACKING AND STORING VESSEL.

(Application filed Apr. 12, 1901.)

(No Model.)

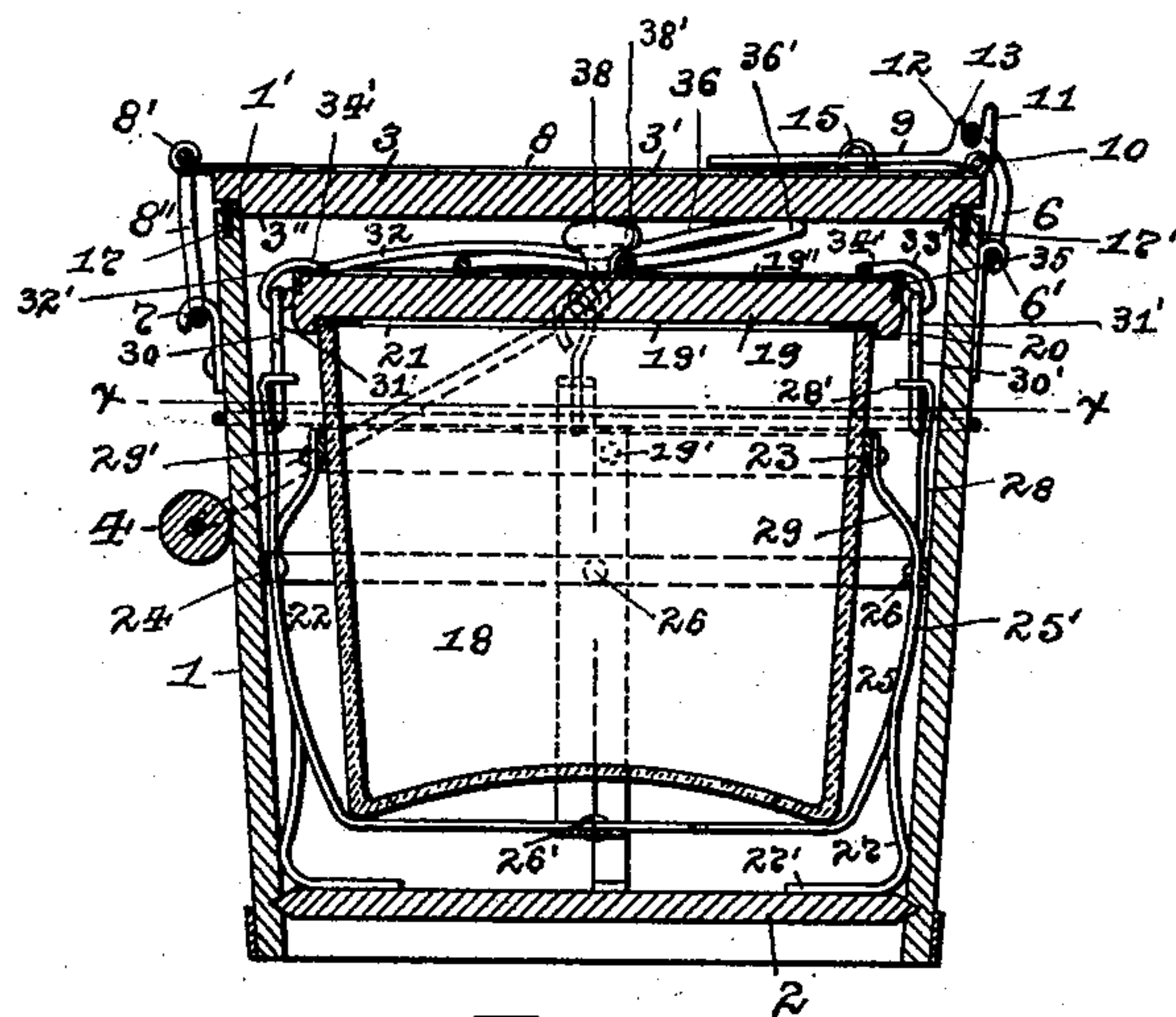


Fig. 1.

Fig. 2.

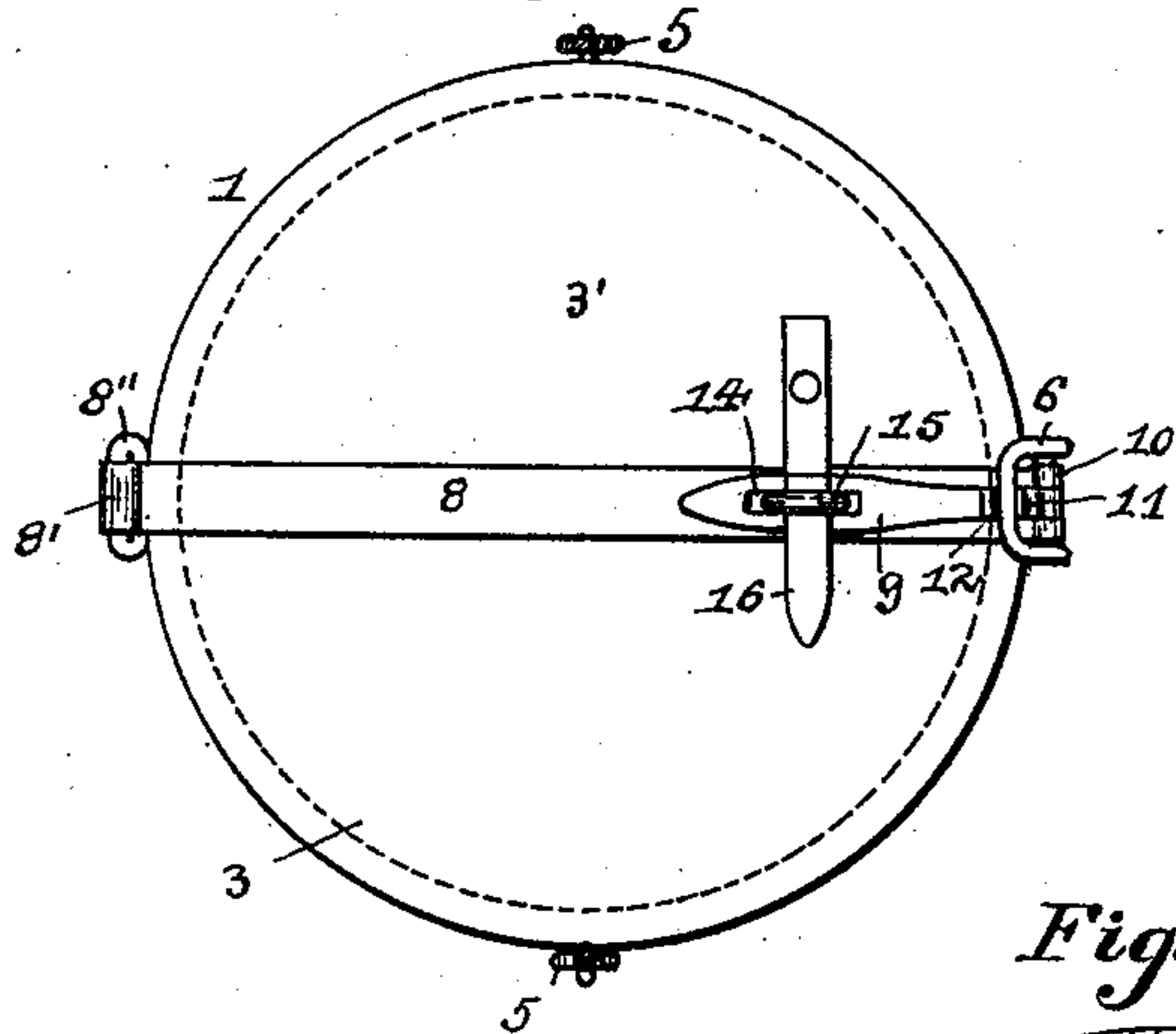


Fig. 3.

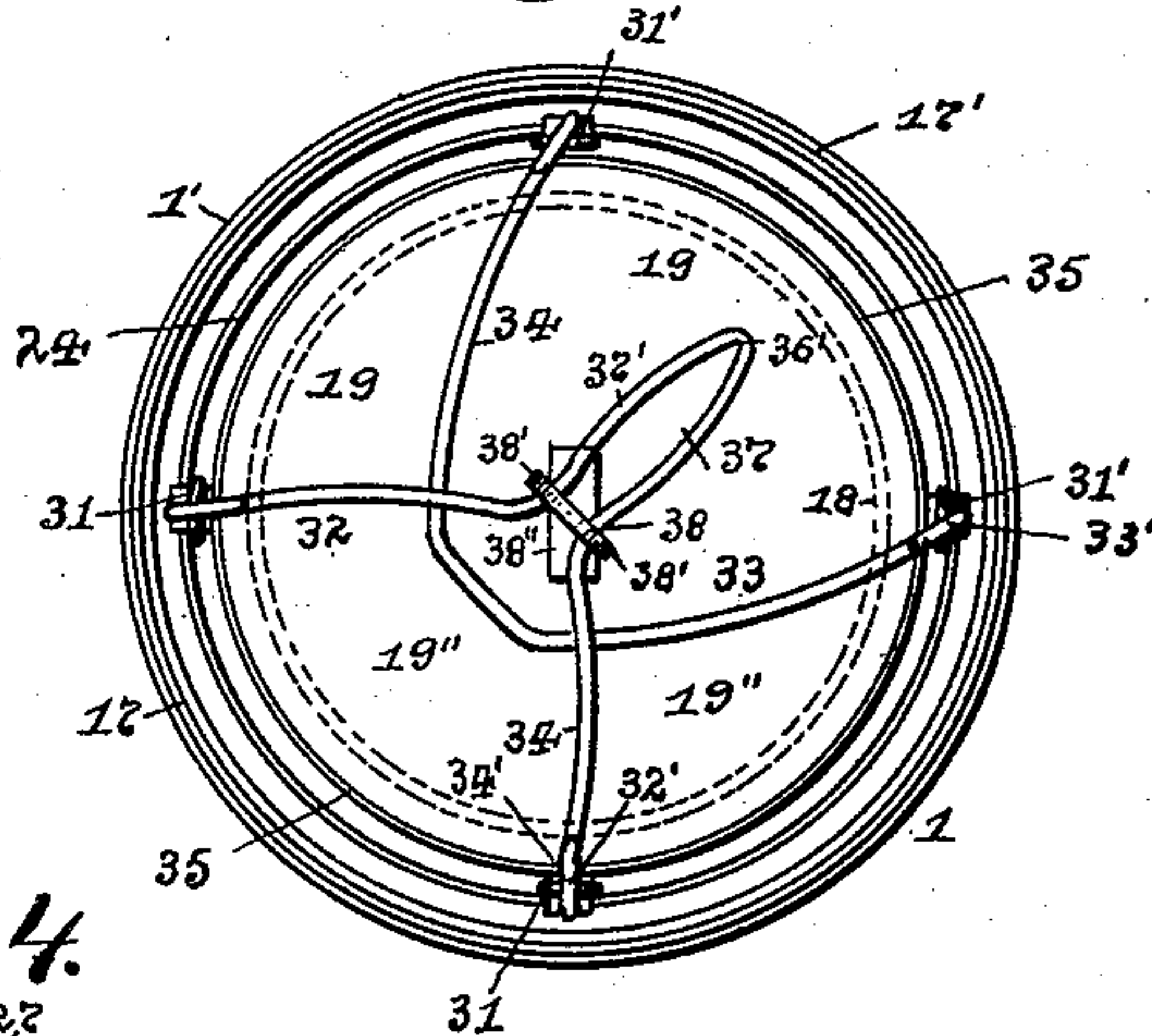
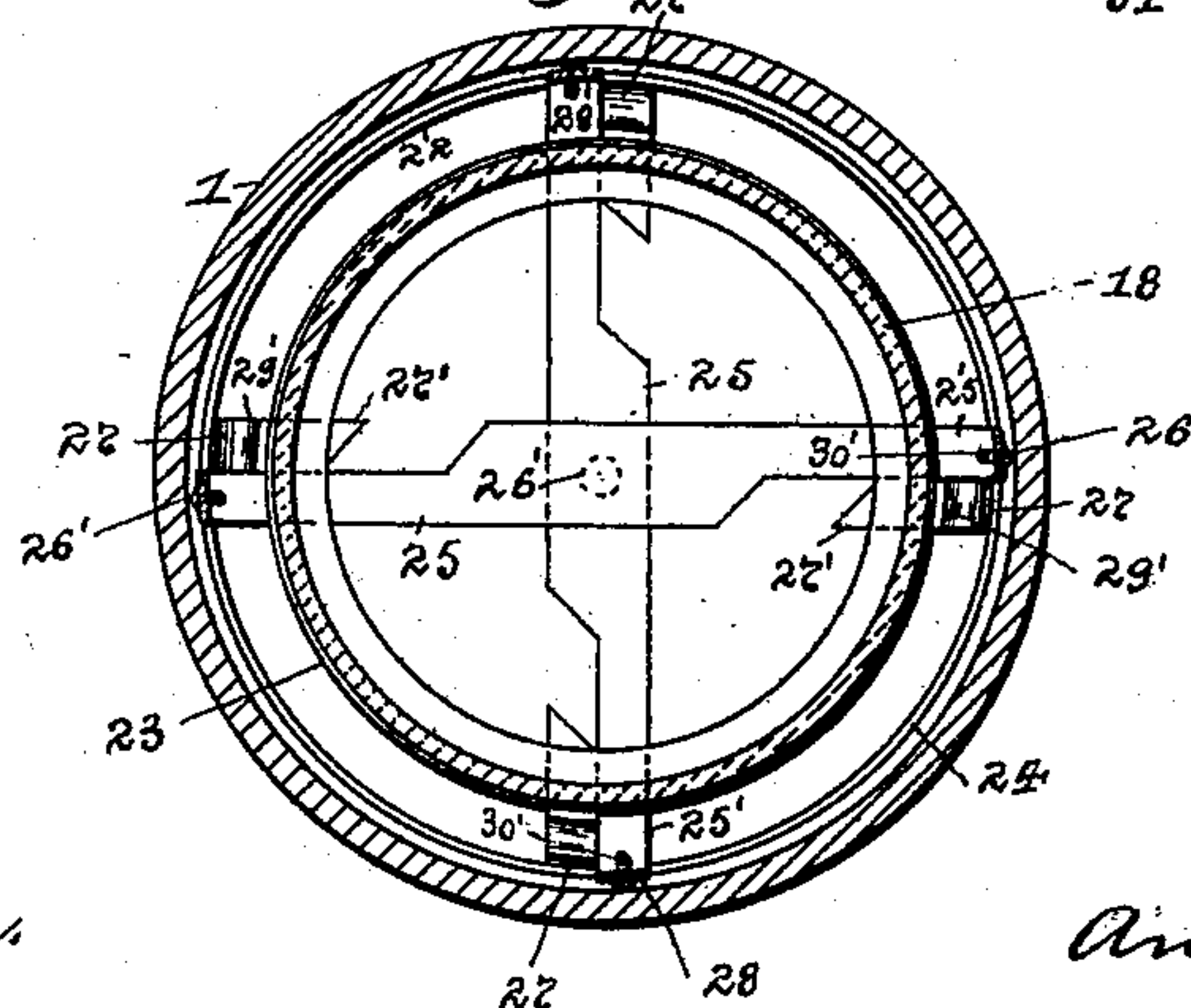


Fig. 4.



Witnesses:

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UNITED STATES PATENT OFFICE.

AMOS BURSON, OF McDONALD, PENNSYLVANIA, ASSIGNOR TO AUGUST VALENTOUR, OF McDONALD, PENNSYLVANIA.

PACKING AND STORING VESSEL.

SPECIFICATION forming part of Letters Patent No. 689,790, dated December 24, 1901.

Application filed April 12, 1901. Serial No. 55,447. (No model.)

To all whom it may concern:

Be it known that I, AMOS BURSON, a resident of McDonald, in the county of Allegheny and State of Pennsylvania, have invented a new and useful Improvement in Packing and Storing Vessels; and I do hereby declare the following to be a full, clear, and exact description thereof.

My invention relates to packing and storing vessels, and has special reference to vessels for the preserving and shipping of butter, &c.

The object of my invention is to provide a butter vessel in which the butter is stored or packed in an air-tight jar, said jar being surrounded and supported in an inclosing case, so as to be relieved of any liability of breaking in handling and transporting from one place to another, while at the same time the jar is held securely in place. It is readily removable when desired.

Another object of my invention is to so suspend and support the jar within the inclosing case as to provide for the free circulation of air around the jar containing the butter while it is confined within the case to keep the butter from becoming rancid or impure, and thereby overcome the use of ice or water around the same to keep the butter cool.

My invention consists, generally stated, in the novel arrangement, construction, and combination of parts, as hereinafter more specifically set forth and described, and particularly pointed out in the claims.

To enable others skilled in the art to which my invention appertains to construct and use my improved packing and storing vessel, I will describe the same more fully, referring to the accompanying drawings, in which—

Figure 1 is a vertical central section of my improved packing and storing vessel. Fig. 2 is a top view thereof. Fig. 3 is a like view with the case-cover removed; and Fig. 4 is a cross-section of the same on the line X X, Fig. 1.

Like symbols of reference herein indicate like parts in each of the figures of the drawings.

As illustrated in the drawings, 1 represents the inclosing case, having the bottom 2 therein and the removable lid or cover 3 thereon, and an ordinary handle or bail 4 is pivoted on

each side of the case 1, as at 5, for convenience in lifting and carrying the vessel. Secured to one side of the case 1 is the link or loop 6, which is pivoted at one end, as at 6', and secured to the opposite side of the case 1 is the hook 7, to which a link or loop 8", pivoted at one end 8' of a bar 8, secured on the top face 3' of the cover 3, is adapted to catch or engage, and the opposite end of the bar 8 has a lever 9 thereon, which is hinged to said bar 8 at 10 and is provided with two lugs 11 and 12 thereon over the hinge 10. The lug 11 is longer than the lug 12, and they form a seat 13 between them for the reception of the free end of the loop 6, while the lever 9 has a slot 14 therein for fitting over a staple 15 on the bar 8, through which one end of a strap 16, secured at its opposite end to the top 3' of the cover 3, is adapted to pass for holding the lever 9 in place. A rubber gasket 17 is secured within a seat 17' in the top edge 1' of the case 1 for fitting against the bottom face 3'' of the cover 3 when in place to make the case airtight.

The jar 18 is adapted to be inserted within the inclosing case 1 and has the removable lid or cover 19 fitting over the same, which is generally formed of wood and is provided with the depending flange 20 thereon for fitting down over and around the top edge of the jar 18, which is generally formed of glass, and in order to make the same air-tight a rubber gasket 21 is secured to the bottom face 19' of the cover 19 and presses against the top edge of the jar 18 when packed.

The jar 18 is supported within the inclosing case 1 by means of the metal frame 22, which is removably secured around the jar 18 between said jar and the case, and this frame 22 is preferably made in skeleton form out of common hoop-iron in order to have sufficient resiliency when secured in place within the case 1, such a frame being substantially shown and described in Letters Patent granted to me on August 10, 1897, No. 587,699. This metal frame 22 has the concentric ring 23, which is adapted to fit around the jar 18 and near the top edge thereof, while another concentric ring 24 is secured and formed as part of the frame 22 below the ring 23 and has the uprights 25' of the bails 25 secured

thereto by rivets 26. These bails 25 are preferably four in number and cross each other with their doubled ends under the bottom of the jar 18 at right angles to each other and are secured at their centers by a rivet 26'. Cut or stamped out of the uprights 25' are the lower spring-arms 27, which are provided with the inwardly-bent ends 27' thereon, and these spring-arms 27 depend outwardly from the uprights 25' and engage with the interior of the case 1, while the bent ends 27' rest upon the bottom 2 of the case 1.

Above the ring 24 the uprights 25' of the bails 25 are split or cut at or about their centers in order to form the upper spring-arms 28 and supports 29, and these supports 29 are bent inwardly and secured to the ring 23 by a rivet 29', while the spring-arms 28 are provided with bent ends 28'. Posts 30 and 30', preferably formed of wire, are adapted to pass through openings in the bent ends 28' and are held in place on the uprights 25' by bending their lower ends and securing them in openings in the upper spring-arms 28, while the upper ends of said posts 30 and 30' are bent to form loops 31 and 31'. Connected to the loops 31 by loops 32' is the locking spring-lever 32, and connected to the loops 31' by loops 33' is the spring-lever 33. These levers are preferably formed of wire and are opposite each other, so that the ends of the same can fold over or overlap each other when in position, and they are of somewhat semicircular shape, as at 34. The levers 32 and 33 are provided with straight portions 34' at the ends of the same adjacent to the loops 32' and 33', which are adapted to come in contact with the top edge of a metallic band or ring 35, secured around the periphery of the cover 19 and extending slightly above the top face 19'' thereof. The locking spring-lever 32 fits over the spring-lever 33 and is provided with a spring extension 36 thereon, which is bent to form a slot 37 therein, through which a thumb-catch 38, having projections 38' thereon and swiveled in the top 19'' of the cover 19, is adapted to pass. The catch 38 is journaled in a plate 38'', secured at or about the center of the cover 19 and is adapted to be turned so as to engage with the sides 37' of the extension 36, and the extension 36 is bent so that its end 36' extends upward in order to come in contact with the bottom face 3'' of the cover 3 when in place.

The use and operation of my improved packing and storing vessel are as follows: These vessels are generally filled with butter in cellars or other cool places, so that the air contained around the jar 18 within the inclosing case 1 shall be pure and cool, and when it is desired to pack the vessel after the butter has been placed within the jar 18 the jar is placed within the metal frame 22, which has previously been made in any suitable manner around a mandrel or form and has the spring-levers 32 and 33 placed thereon. After this is done the jar 18, having the frame 22

surrounding the same, with the levers 32 and 33 thereon, is lifted and inserted within the inclosing case 1, which can be done by dropping the same within the case 1 and so causing the ring 24 to come in contact with the inside or interior walls of the case 1, while the spring-arms 27 are so bent out as to cause them to come in contact with the interior walls of the case 1 and the bent ends 27' thereof to come in contact with or rest against the bottom 2 of the case 1. The lid or cover 19 is then placed upon the jar 18 and is guided to position by means of the depending flange 20 around the same, after which the spring-levers 32 and 33 can be pulled over the cover 19, so that the straight portions 34' thereon adjacent to the loops 32' and 33' are in position to bear directly on the top edge of the metal ring 35 around the cover 19, when the spring-lever 33 can be pressed and held against the top 19'' of the cover 19, while the locking spring-lever 32 is pressed down and held over the lever 33, so that the slot 37 in the spring extension 36 passes over the thumb-catch 38, when said catch can be turned on its swivel and its projections 38' engage with the sides 37' of the extensions 36. This will lock the cover 19 against the jar 18 and press the top edge of the jar 18 against the gasket 21 on the bottom face 19' and also render the jar air-tight. The vessel is now ready for the lid or cover 3 to be placed upon the inclosing case 1, and it is placed over the case 1 by catching the link 8'' on the bar 8 under the hook 7 on the side of the case 1 and pressing down said cover 3, so that its bottom face 3'' rests against the gasket 17 in the top edge 1' thereof and against the ends 36' on the spring extension 36, when the loop 6 at the opposite side of the case 1 can be placed over the lug 11 on the lever 9, so that said lever 9 can be pressed down against the bar 8 and allow the staple 15 on said bar 8 to pass through the slot 14 in the lever 9. This will cause the free end of the loop to pass into the seat 13 on said lever 9 and press down the cover 3 tightly against the gasket 17 on the case 1 and render the case air-tight, after which the strap 16 on the cover 3 can be inserted through the staple 15 and the lever 9 held in place.

It will thus be seen that by my improved packing and storing vessel all liability of the butter becoming rancid or impure is overcome. The vessel having a dry-air space around and within it overcomes all liability of the butter becoming rancid by atmospheric electricity while being stored during the summer seasons, as is the case where ice and water are used, the vessel acting as a refrigerator. An even temperature is always maintained around the jar within the inclosing case, and being free from fabrics and cloths free circulation of air is obtained, which prevents obnoxious smells and odors from within the case affecting the butter.

The vessel can be easily packed and un-

packed, and all danger of breaking the jar is overcome, as the devices for holding the same in place prevent it from moving to either side or up and down within the inclosing case and will always hold it in a central and steady position. The vessel does not require the use of ice or water, can easily be shipped from place to place without the least danger of the butter becoming impure or the case injured, and any jars or knocks upon the case will not affect the jar or move the same out of place on account of the spring nature of the metal frame within the case.

Various modifications in the construction, design, and position of the various parts may be resorted to without departing from the spirit of the invention or sacrificing any of its advantages.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. The combination of the jar having a cover thereon and inclosing case, a spring-metal frame located between the jar and case, and spring-levers hinged and attached to said metal frame for extending over said cover to hold the same on the jar.

2. The combination of the jar having a cover thereon and inclosing case, a spring-metal frame located between said jar and case, and spring-levers hinged and attached to said metal frame for extending over and be removably secured to said cover to hold the same on the jar.

3. The combination of the jar having a cover thereon and inclosing case, a spring-metal frame located between the jar and case, spring-arms on said metal frame, and spring-levers hinged and attached to said arms for extending over and be removably secured to said cover to hold the same on the jar.

4. The combination of the jar having a cover thereon and inclosing case, a spring-metal frame located between the jar and case, spring-arms on said metal frame, posts secured on said spring-arms, and spring-levers hinged and attached to said posts for extending over and be removably secured to said cover to hold the same on the jar.

5. The combination of the jar having a cover thereon and inclosing case, a spring-metal frame located between said jar and case, spring-levers hinged and attached to said metal frame for extending over said cover, and means for removably securing said spring-levers to hold the cover on the jar.

6. The combination of the jar having a cover thereon and inclosing case, a spring-metal frame located between the jar and case, spring-levers hinged to said metal frame and adapted to extend over said cover, and means carried on said cover for removably securing said spring-levers to hold the cover on the jar.

7. The combination of the jar having a cover thereon and inclosing case, a spring-metal frame located between said jar and case, spring-levers hinged to said metal frame and adapted to extend over said cover, and a catch

carried on said cover for removably securing said spring-levers to hold the cover on the jar.

8. The combination of the jar having a cover thereon and inclosing case, a spring-metal frame located between said jar and case, spring-levers hinged to said metal frame and adapted to extend over said cover, and a swiveled catch secured on said cover for removably securing said spring-levers to hold the cover on the jar.

9. The combination of the jar having a cover thereon and inclosing case, a spring-metal frame located between said jar and case, spring-levers hinged to said metal frame and adapted to extend over said cover, an extension on one of said levers, and means for engaging with said extension to removably secure said levers and hold the cover on the jar.

10. The combination of the jar having a cover thereon and inclosing case, a spring-metal frame located between said jar and case, spring-levers hinged to said metal frame and adapted to extend over said cover, an extension on one of said levers, and a catch on said cover engaging with said extension to removably secure said levers and hold the cover on the jar.

11. The combination of the jar having a cover thereon and inclosing case, a spring-metal frame located between said jar and case, spring-levers hinged to said metal frame and adapted to extend over said cover, an extension on one of said levers, and a swiveled catch secured on said cover engaging with said extension to removably secure said levers and hold the cover on the jar.

12. The combination of the jar having a cover thereon and inclosing case, a spring-metal frame located between said jar and case, spring-levers hinged to said metal frame and adapted to extend over said cover, an extension on one of said levers having a slot therein, and a swiveled catch secured on said cover and adapted to pass through the slot for engaging with said extension to removably secure said levers and hold the cover on the jar.

13. The combination of the jar having a cover thereon, an inclosing case having a cover thereon, a spring-metal frame located between said jar and case, and spring-levers hinged to said metal frame and adapted to extend over and come in contact with said covers to hold the jar-cover and the jar in place.

14. The combination of the jar having a cover thereon, an inclosing case having a cover thereon, a spring-metal frame located between said jar and case, spring-levers hinged to said metal frame and adapted to extend over said cover, and a spring extension on one of said levers adapted to come in contact with the case-cover to hold the jar-cover and jar in place.

15. The combination of the jar having a cover thereon, an inclosing case having a cover thereon, a spring-metal frame located between the jar and case, spring-levers hinged to said metal frame and adapted to extend

over said cover, and a spring extension on one of said levers for removably securing said levers to the cover and having its free end adapted to come in contact with the case-
5 cover to hold the jar-cover and jar in place.

16. The combination of the jar having a cover thereon, an inclosing case, a spring-metal frame located between the jar and case, spring-levers hinged to said metal frame and
10 adapted to extend over and be removably secured to said cover to hold the same on the jar and straight portions on said spring-levers adapted to engage with the edge of the jar-cover.

15 17. The combination of the jar having a cover thereon, a metal band or ring secured around the edge of said cover, an inclosing case, a spring-metal frame located between the jar and case, spring-levers hinged to said
20 metal frame and adapted to extend over and be removably secured to said cover to hold the same on the jar, and straight portions on said spring-levers adapted to engage with the edge of the metal band or ring on the jar-
25 cover.

18. A spring-metal frame composed of two concentric rings connected together, bails secured to said rings, crossing each other and connected together, spring-arms depending
30 from said bails having inwardly-bent ends, spring-arms above said bails and rings, and spring-levers hinged to said spring-arms.

19. A spring-metal frame composed of two

concentric rings connected together, bails secured to said rings, crossing each other and
35 connected together, spring-arms depending from said bails having inwardly-bent ends, spring-arms above said bails and rings, posts secured on said spring-arms, and spring-levers hinged to said spring-arms. 40

20. A spring-metal frame composed of two concentric rings connected together, bails secured to said rings, crossing each other and connected together, spring-arms depending
45 from said bails having inwardly-bent ends, spring-arms above said bails and rings, posts secured to said spring-arms, and spring-levers having straight portions thereon hinged to said posts.

21. A spring-metal frame composed of two concentric rings connected together, bails secured to said rings, crossing each other and connected together, spring-arms depending
50 from said bails having inwardly-bent ends, spring-arms above said rings and bails, posts secured to said spring-arms, spring-levers having straight portions thereon hinged to said posts, and an extension on one of said
55 levers.

In testimony whereof I, the said AMOS BURSON, have hereunto set my hand. 60

AMOS BURSON.

Witnesses:

J. N. COOKE,

J. L. TREFALLER, Jr.