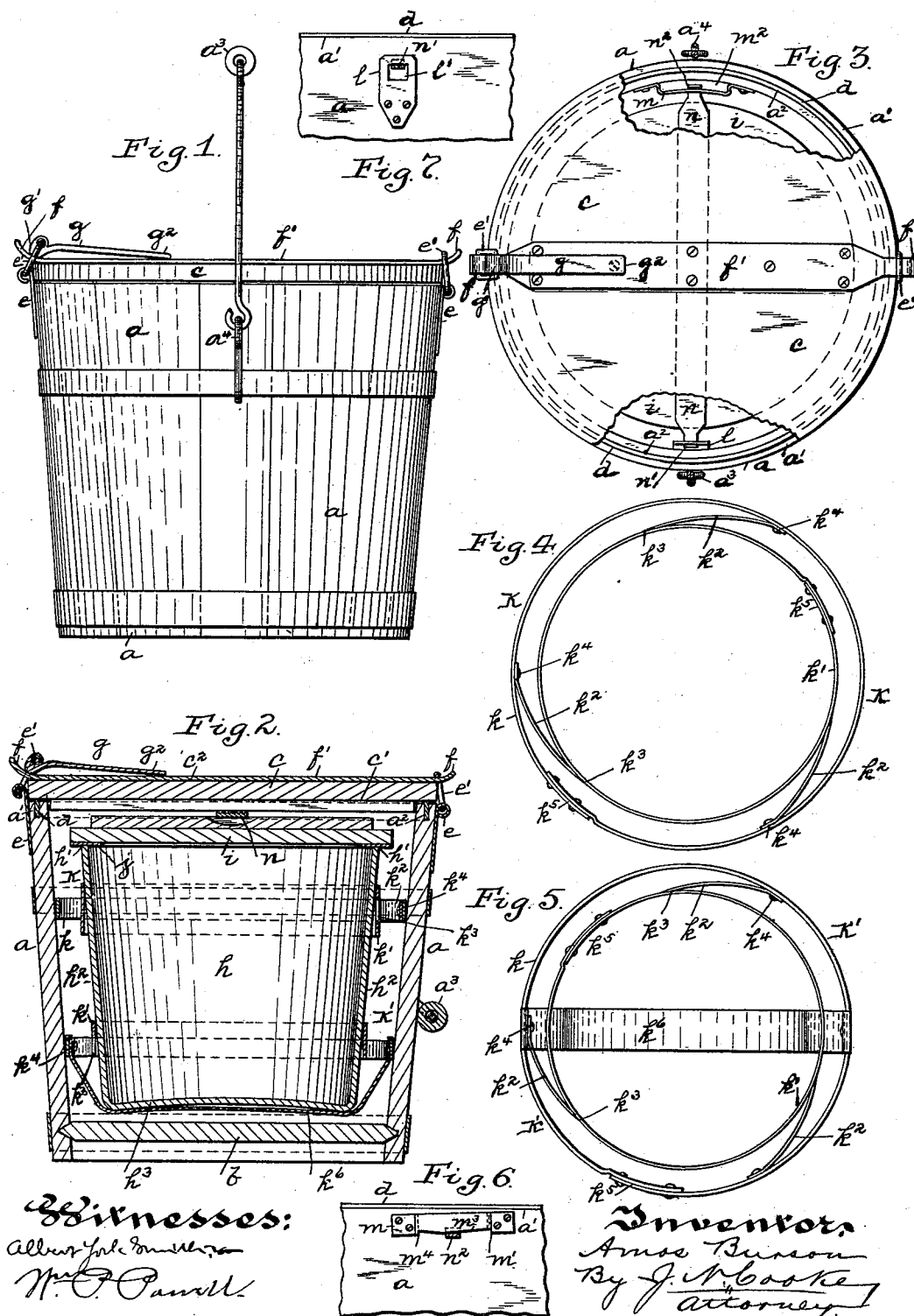


(No Model.)

A. BURSON.
PACKING AND STORING VESSEL.

No. 533,033.

Patented Jan. 22, 1895.



UNITED STATES PATENT OFFICE.

AMOS BURSON, OF NEGLEY, ASSIGNOR OF ONE-HALF TO G. H. MACKALL
AND A. R. MACKALL, OF EAST LIVERPOOL, OHIO.

PACKING AND STORING VESSEL.

SPECIFICATION forming part of Letters Patent No. 533,033, dated January 22, 1895.

Application filed September 25, 1894. Serial No. 524,035. (No model.)

To all whom it may concern:

Be it known that I, AMOS BURSON, a resident of Negley, in the county of Columbiana and State of Ohio, 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 packing, shipping and storing 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 all liability of breaking in handling, and transporting from one place to another, while at the same time the jar is readily removable.

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

My invention consists, generally stated, in combining with the jar and inclosing case, of hoops located between the jar and case, said hoops being each constructed of concentric hoops, and one of said hoops being cut away to form a spring connection.

It also consists in certain other details of construction and combination of parts, all of which will be more fully hereinafter set forth and claimed.

To enable others skilled in the art to make and use my invention, I will describe the same more fully, referring to the accompanying drawings, in which—

Figure 1 is a side view of my improved packing and storing vessel. Fig. 2 is a central section thereof. Fig. 3 is a top view, partly broken away. Figs. 4 and 5 are views of the hoops employed, and Figs. 6 and 7 are detail views.

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

As illustrated in the drawings *a* represents the inclosing case having the bottom *b* and the removable cover or lid *c* thereon. On the top edge *a'* of the inclosing case *a* is a

seat *a²* for the reception of the flexible packing *d* which extends above the top edge *a'* of the inclosing case *a* against the bottom face *c'* of the cover or lid *c* and acts to form an airtight compartment when the removable cover or lid *c* is placed thereon.

Mounted on each side of the inclosing case *a* are the straps *e* having the loops *e'* loosely mounted therein. These loops *e'* are adapted to engage with spring lips *f* formed on the ends of a piece of metal *f'* rigidly secured to the top face *c²* of the removable cover or lid *c*. The free end of one of the loops *e'* is mounted in a lever *g* having an eccentric face *g'* adapted to engage with one of the spring lips *f* in order to rigidly secure and lock the cover or lid *c* against the inclosing case *a*. The lever *g* is provided with a handle *g²* for convenience in operating the same. An ordinary handle *a³* is pivoted on each side of the inclosing case *a* as at *a⁴* for convenience in carrying the vessel.

Mounted within the inclosing case *a* is the jar *h*, which has the removable cover or lid *i* thereon. The jar *h* is generally formed of glass, while the cover or lid *i* is generally formed of wood, and in order to form the jar *h* air-tight a gasket *j* is secured to the bottom face *i'* of the cover or lid *i* and presses against the top *h'* of the jar *h* when packed.

The jar *h* is supported within the inclosing case *a* by means of the hoops *K K'*, the hoop *K* being placed within the inclosing case *a* at or near the bottom thereof, and the hook *K'* being placed therein at or near the top of the inclosing case *a*. These hoops *K, K'* are formed of the two concentric hoops *k k'*, the hoop *k'* being smaller than the hoop *k* and placed within the hoop *k'*, and the sides *h²* of the jar *h* resting against the inner hoops *k'*, and the two hoops *k k'* running substantially parallel with each other. The hoops *k'* are held in place by the spring lips *k²*, which are cut or stamped out of the hoops *k'*, as at *k³*, and are riveted to the hoops *k* at *k⁴*. The hoops *k k'* are preferably formed of sheet iron and are riveted together at *k⁵* to form the concentric shapes. Riveted to the outer hoop *k* of the lower hoop *K*, and projecting down therefrom, is the jar supporting strap *k⁶*, which acts to limit the lowering of the jar *h* into the inclosing case *a* and support the

same above the bottom *b* of the inclosing case *a* and allow for the free circulation of air around the jar *h*, the bottom *h*³ of the jar *h* resting upon the jar supporting strap *k*⁶.

5 In order to secure the cover or lid *i* to the jar *h*, there are provided the straps *l m* rigidly secured to the interior surface of the inclosing case *a* at or near the top edge *a'* thereof. The strap *l* is provided with the
10 opening *l'* therein, at or near the top thereof, for the reception of one of the flanged ends *n'* of the spring bar *n*. The other flanged end *n*² on the spring metal strip *n* is adapted to be sprung under the strap *m* on the opposite
15 side of the inclosing case *a*, through the cut-away portion *m'* on the strap *m* and into the space *m*². The spring bar *n* can then be forced down the inclined portion *m*³ on the strap *m* and against the strap *m*⁴ thereon.

20 These packing and storing vessels are generally filled with butter in cellars or other cool places, so that the air contained around the jar *h* within the inclosing case shall be cool and pure.

25 When it is desired to pack the vessel, the hoop *K* is inserted into position within the inclosing case *a* at or near the bottom *b* thereof, after which the hoop *K'* is inserted within the inclosing case *a* at or near the top *a'* thereof.

30 The jar *h* filled with butter is then placed within the inclosing case *a*, its bottom *h*³ resting upon the supporting strap *k*⁶, and the sides *h*² resting within and against the hoops *k*⁷. The cover or lid *i* is then placed on the jar *h*,

35 with the gasket *j* resting against the top face *h'* of the jar *h*, after which the flanged end *n'* of the spring bar *n* is placed with the opening *l'* in the strap *l*, and the other flanged end *n*² on the spring bar *n* is sprung under the strap

40 *m* through the cut away portion *m'* into the space *m*², and slides down the inclined portion *m*³ to place against the strap *m*⁴, so securing the cover or lid *i* on the jar *h* in an air tight manner, and at the same time holding

45 the jar *h* in place within the hoops *K K'* in the inclosing case. The vessel is now ready for the placing of the cover or lid *c* upon the inclosing case *a*, which is done in the following manner. One of the spring lips *f* on the

50 metal piece *f'* secured to the cover or lid *c* is placed in one of the loops *e'*, after which the cover or lid *c* is forced down against the flexible packing *d* on the top edge *a'* of the inclosing case *a*, and the lever *g* carrying the

other loop *e* is then thrown over the other 55 spring lip *f'* on the metal piece *f'* until the handle *g*² thereof strikes against the metal piece *f'*, so forcing down the cover or lid *c* with great pressure against the flexible packing *d*, and rendering the inclosing case *a* air- 60 tight.

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 65 within it, overcomes all liability of the butter becoming affected or rancid by atmospheric electricity while being stored during the summer seasons, as is the case where they use ice and water, the vessel acting as a re- 70 frigerator. An even temperature is formed 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 75 case.

The vessel can be easily packed and unpacked and all danger of breaking the jar is overcome. The devices for holding the jar in place prevent the jar from moving to either 80 side of the inclosing case, and always hold it in a central position.

The vessel does not require the use of ice or water and can easily be shipped from place to place without the least danger of the butter 85 becoming impure or the case injured.

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

1. The combination with the jar and inclosing case, of hoops located between the jar and 90 case, said hoops being each constructed of concentric hoops and one of said hoops cut away and connected to the other to form a spring connection, substantially as described.

2. The combination with the jar and inclosing 95 case, of hoops located between the jar and case, said hoops being each constructed of concentric hoops and one of said hoops being cut away and connected to the other to form a spring connection, and a spring metal bar 100 connected to the lower one of said hoops to support the jar, substantially as described.

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

AMOS BURSON.

Witnesses:

J. N. COOKE,

E. A. WENK.