

(No Model.)

I. UNGER.
SHIPPING CASE.

No. 509,001.

Patented Nov. 21, 1893.

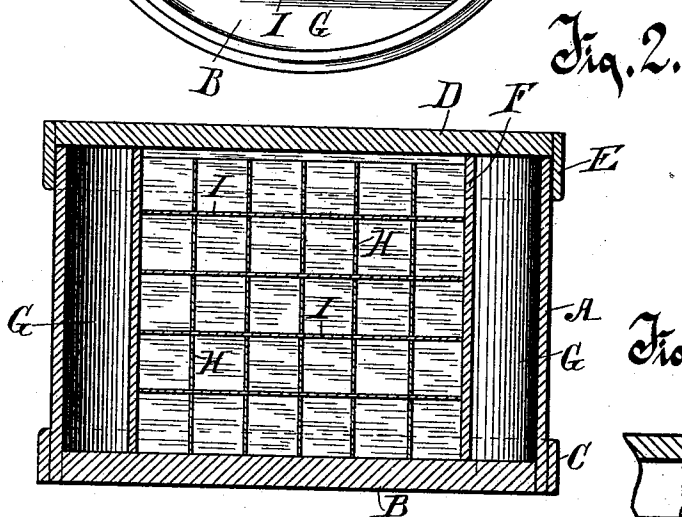
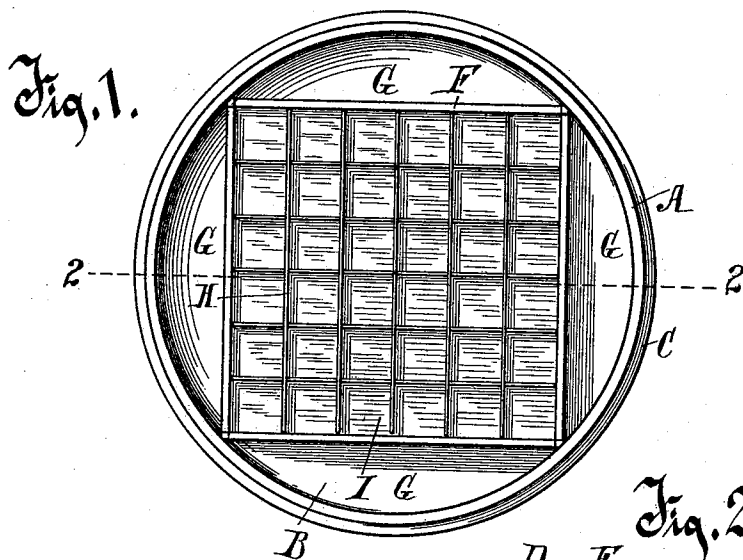


Fig. 3.

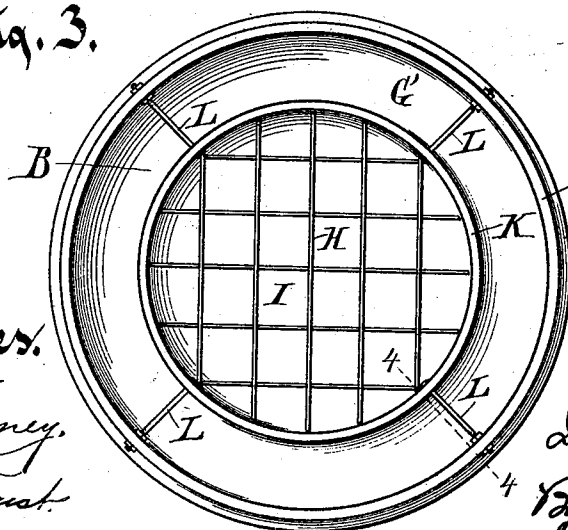
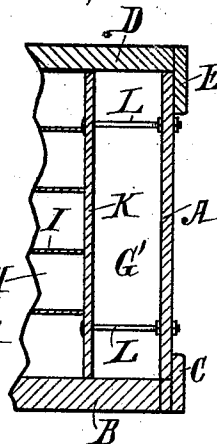


Fig. 4.



Witnesses:
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UNITED STATES PATENT OFFICE.

ISAAC UNGER, OF IRON MOUNTAIN, MICHIGAN.

SHIPPING-CASE.

SPECIFICATION forming part of Letters Patent No. 509,001, dated November 21, 1893.

Application filed February 27, 1893. Serial No. 463,839. (No model.)

To all whom it may concern:

Be it known that I, ISAAC UNGER, of Iron Mountain, in the county of Dickinson and State of Michigan, have invented a new and useful Improvement in Shipping-Cases, of which the following is a description, reference being had to the accompanying drawings, which are a part of this specification.

My invention relates to a shipping case, especially adapted for the transportation of eggs, perishable fruit, fragile glass articles or analogous material; the chief object of the invention being to provide means for protecting the articles in the case against excessive cold or heat or excess of moisture, and additionally in securing the articles being transported therein against breakage, bruising or injury, and also includes a construction that combines the minimum of weight with the maximum of strength and endurance.

In the drawings, Figure 1, is a plan view of my improved case, the cover being removed. Fig. 2, is a central vertical section of the improved case on line 2—2 of Fig. 1. Fig. 3, is a plan of a modified form of the case, the covering being removed. Fig. 4, is a section on line 4—4 of Fig. 3.

In this shipping case the wall A of the outside shell is annular in form, of such diameter and height as is desirable for the particular purpose for which the case is made. A bottom B is securely fastened in the annular shell and a reinforcing hoop C is placed about and secured to the shell at its lower edge opposite the bottom B. A cover D provided with a rim E projecting therefrom is made to rest on and fit tightly but removably about the shell A. This cover fits so closely to the shell as to be substantially air tight and as not to be liable to become detached from the case except by force applied thereto for removing it.

In my invention a chief feature is, the providing a space within and adjoining the shell A adapted to be filled either with air or some other material adapted to resist or obstruct the passage or transmission of heat, cold or wet from the outside to an inner material-containing receptacle.

In the device shown in Figs. 1 and 2, I have

shown as one form of the interior receptacle a square box F having integral tight sides of the same height as the shell A, the corners of which box contact with and bear against the inner surface of the shell, and thereby retain it in position removably. This construction provides chambers G G at the sides of the receptacle, and between it and the shell A, which may be used as air spaces, or may be filled with sawdust, chaff, bran or any similar material adapted to resist or obstruct the passage of heat, cold or moisture from the outside to the interior receptacle. This receptacle F is to be packed with eggs, fruit or other material for transportation in any manner suitable for such purpose, but as a method and means for packing it with eggs, I have shown a series of transverse or crossed partitions H having false bottoms I, which partitions and bottoms are removable, and form what are commonly known as "fillers" for the interior of an egg case. These or other devices may be used for packing the material in the receptacle.

In the modified form of device shown in Fig. 3 I use an interior round receptacle K, consisting merely of an annular wall of the same height as the interior of the case, but of less diameter than the shell A, which receptacle is secured detachably to the shell by stay bolts L. This provides an annular chamber G' entirely around the receptacle between it and the shell. This chamber may be utilized as an air space, or may be packed with sawdust or other similar material, as in the other form of device. The shipping case is preferably constructed of wood, the wall of the shell and the hoop and rim of the cover being bent for that purpose.

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

1. The combination in a shipping case of an exterior annular shell provided with a tight bottom and a close fitting removable cover and a single interior square receptacle with integral tight sides of substantially the same height as the exterior shell, all the corners of which interior receptacle are fitted to and bear against the exterior shell thereby holding the interior receptacle rigidly in position and

forming chambers between the sides of the interior receptacle and the exterior shell, substantially as described.

2. A shipping case combining an exterior
5 annular shell having a tight bottom and a close fitting removable cover, with a single interior receptacle with integral tight sides of substantially the same height as the exterior shell of less dimensions laterally than the
10 shell, and secured rigidly in position therein in such manner as to form a space or spaces

between the interior receptacle and outer shell, and means substantially as described, dividing the interior receptacle into several material-holding compartments.

In testimony whereof I affix my signature in
15 presence of two witnesses.

ISAAC UNGER.

Witnesses:

EUGENE A. WOODWARD,
ALBERT LEVY.