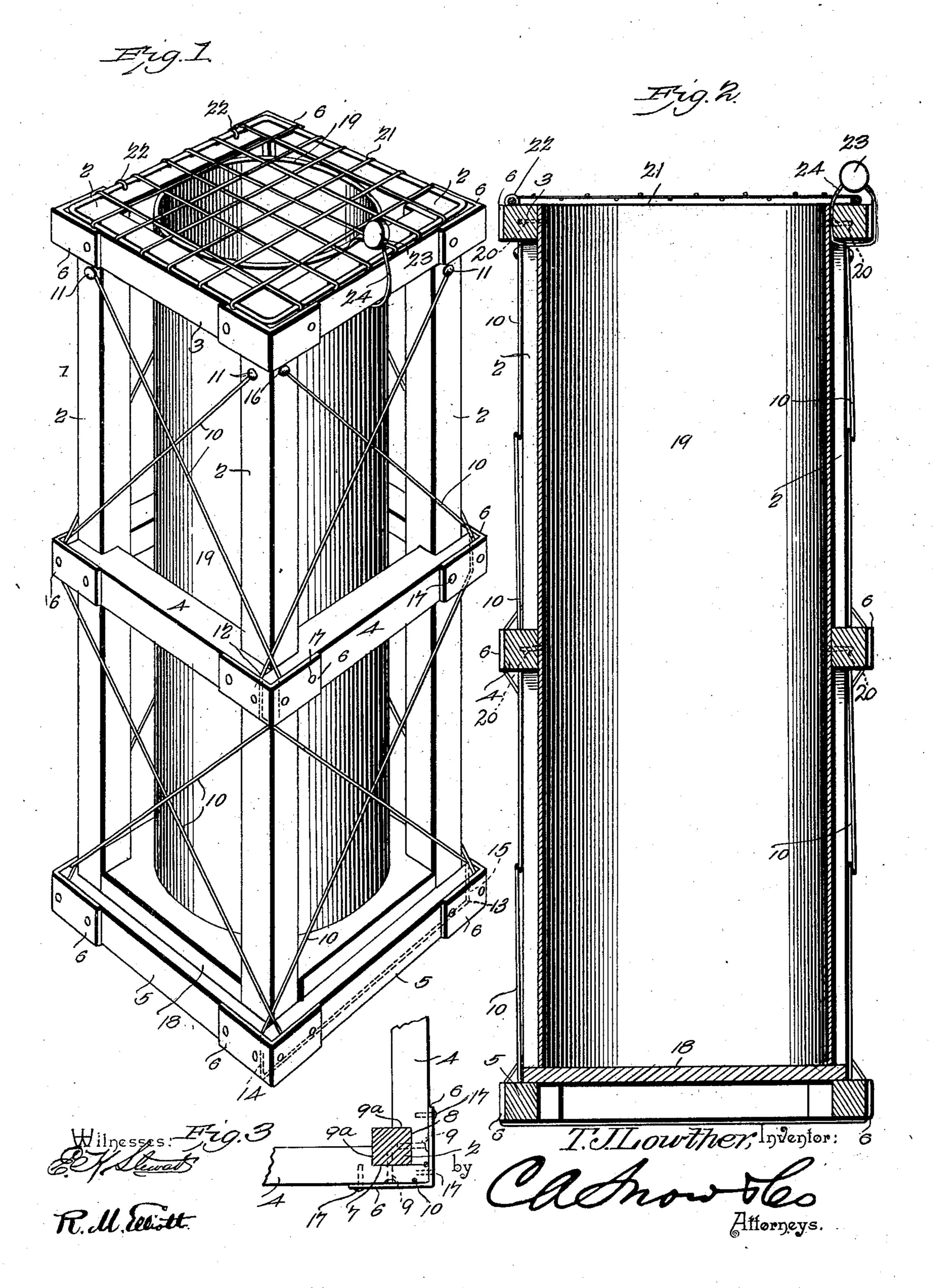
T. J. LOWTHER. SHIPPING CRATE FOR BANANAS.

(Application filed Sept. 11, 1901.)

(No Model.)



United States Patent Office.

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SHIPPING-CRATE FOR BANANAS.

SPECIFICATION forming part of Letters Patent No. 690,657, dated January 7, 1902. Application filed September 11, 1901. Serial No. 75,057. (No model.)

To all whom it may concern:

Be it known that I, Thomas Jefferson LOWTHER, a citizen of the United States, residing at Shreveport, in the parish of Caddo 5 and State of Louisiana, have invented a new and useful Shipping-Crate for Bananas, of which the following is a specification.

This invention relates to shipping-crates

for bananas.

The object of the invention is to provide a simply - constructed, highly - durable, thoroughly-efficient, and readily-operable structure of the character specified in which bananas may be shipped with safety, and which 15 may be roughly handled without danger of the contained fruit being bruised or otherwise damaged, and in which the fruit may, if desired, be exposed to the action of heat and light without danger of being handled or stolen.

A further object is to provide a crate the fruit-containing holder or cylinder of which shall possess the properties of shielding the fruit against cold in winter and of expedit-

ing ripening thereof in summer.

A further object is to provide a crate the supporting-frame of which shall be so constructed and braced as successfully to withstand rough handling or great applied weight without danger of injury or collapse.

With these and other objects in view, as will appear as the nature of the invention is better understood, the same consists in the novel construction and combination of parts of a shipping-crate for bananas, as will be 35 hereinafter fully described and claimed.

In the accompanying drawings, forming a part of this specification, and in which like numerals of reference indicate corresponding parts, there is illustrated a form of emto bodiment of the invention capable of carrying the same into practical operation, it being understood that the elements therein exhibited may be varied or changed as to shape, proportion, and exact manner of assemblage 45 without departing from the scope of the invention.

In the drawings, Figure 1 is a view in perspective of a completed crate. Fig. 2 is a view in vertical section. Fig. 3 is a frag-50 mentary detail view in section, showing the manner in which the parts of the crate-frame are held assembled.

Referring to the drawings, 1 designates generally the supporting-frame of the structure comprising four corner-posts 2, which are 55 stayed and held assembled at their ends and intermediate thereof by three brace-frames 3, 4, and 5, each consisting of four pieces of wood secured together at their outer corners by cleats 6. In order to relieve strain from 60 the corner-posts when weight is applied to the crate, as when they are piled one on the other, and to transmit such pressure to the brace-frames, two of the parallel members of each of the said frames have their ends 65 rabbeted at 7, the rabbet to extend approximately half-way through the width of the member and to be engaged by the cornerposts, as shown in Fig. 3. The other two parallel members of the brace-frame are simi- 70 larly rabbeted at 8; but the rabbets of these members are longer than those of the adjacent members, whereby to permit them to project out flush with the ends thereof, as also shown in Fig. 3, thus to present a square 75 corner. To hold the members of the braceframe assembled with the corner-posts, nails or screws 9 are passed through the rabbeted portions of each of the members and into the posts, the corner-cleats 6 operating as addi- 80 tional braces for holding the parts assembled. It will thus be seen that when the crate is lying on its side any weight applied thereto will be transmitted through the corner-posts to the rabbet shoulders 9° of the brace mem- 85 bers that are in vertical position, so that any inward bending of the corner-posts will be positively obviated. As a means of additionally bracing the supporting-frame against separation of its parts stay-wires 10 are em- 90 ployed on each side thereof, one end of each of which wires is secured to one of the corner-posts, as by a nail or staple 11, thence is passed diagonally around the outer side of the center brace-frame adjacent to its corner, 95 as shown at 12, thence diagonally across and around the bottom brace-frame adjacent to its corner, as shown in dotted lines at 13, thence under this member to the opposite side and upward and around the same adjacent roo to its corner, as at 14, thence around the center brace - frame adjacent to its corner, as shown at 15, and thence diagonally across to another corner-post, where the end is secured

by a nail or staple 16. After the stay-wires are thus assembled the cleats 6 are secured in position by screws or nails 17 and serve the dual purpose of holding the wires associated with the respective brace-frame and also of preventing the nails or screws 9 from working out. As the same order of arrangement is observed on the other three sides of the supporting-frame, the description herein given of the arrangement on one side will serve for all.

10 the arrangement on one side will serve for all. While not herein shown, it is to be understood that grooves may be provided at those points on the brace-frames against which the stay-wires bear; but inasmuch as the wires 15 are caused to sink into the members of the brace-frames when the cleats are positioned thereon the provision of such grooves will not ordinarily be necessary. The lower braceframe 5 has secured to it a bottom 18, upon 20 which rests the lower open end of the fruitholder 19, the same being a cylinder constructed of any suitable flexible material, preferably of wood-fiber paper, on account of its toughness, durability, and light weight. Fur-25 ther, the employment of wood-fiber paper is preferred on account of being air-proof, so that when bananas are shipped in winter they will be thoroughly protected against excessive cold, and this air-proof feature will operate 30 in summer-time to cause the holder to expedite ripening of the contained fruit. The fruit-holder is held in position within the supporting-frame in this instance by nails or

35 intermediate brace-frames, as shown in Fig. 2. The cover or lid 21 is in this instance a retiform structure composed, preferably, of intermeshed wire and is held assembled with the upper brace-frame 3 by staples or hinges 22.

tacks 20, which are driven into the top and

By having the cover an open-work structure air, when desired, is permitted to have free access to the cylinder, while at the same time the contents of the cylinder are effectively shielded against theft, as the mesh of the wires is to be of such size as to prevent insertion of the fingers therethrough. To effect secure locking of the cover or top, a seal 23 is employed, such as is usually employed on freight-car doors or the like, the wire 24

of which passes around one of the members of the top brace-frame, and thus holds the lid securely assembled therewith, as clearly shown in Figs. 1 and 2.

While the fruit-holder or cylinder 19 is herein shown as circular in cross-section, it 55 is to be understood that the invention is not to be limited to this particular shape, as the same may be rectangular, if preferred, and as this will be obvious illustration is deemed unnecessary.

Prior to placing a bunch of bananas within the holder the bottom 18 will be provided with a layer of straw, and after the bunch of bananas has been placed within the holder straw or hay may also be placed on top thereof, so that should the crate be stood on end in shipment the bananas will be protected from damage.

The only part of the structure that will be liable to damage in use will be the holder 19, 70 and as this is made of paper it may, in case of damage or destruction, readily be replaced

with a new one at but small cost.

It will be seen from the foregoing description that although the crate of this invention 75 is exceedingly simple of construction it possesses all the requisites necessary to the production of a thoroughly-efficient shipping-crate, and by reason of the manner in which its parts are braced and stayed against inspiringly or collapse it may be safely and advantageously employed for the purpose named.

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

1. A crate comprising corner-posts, end and intermediate brace-frames having an interlocked relation with the posts, diagonally-disposed stay-wires associated with the corners of the brace-frames and with the posts, 90 and corner-cleats for holding the stay-wires assembled with the said brace-frames.

2. A crate comprising an open-work diagonally-stayed supporting-frame provided with a bottom, a yieldable air-proof fruit-holder 95 resting on the bottom and secured to the frame, and an open-work cover carried by the

top of the frame.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in 100 the presence of two witnesses.

THOMAS JEFFERSON LOWTHER.

Witnesses:

J. F. SLATTERY, A. M. HIGHHOUSE.