

O. C. FENLASON.
 COLLAPSIBLE VENEER BOX FOR BERRIES, &c.
 APPLICATION FILED JUNE 20, 1908.

912,100.

Patented Feb. 9, 1909.

2 SHEETS—SHEET 1.

Fig. 1.

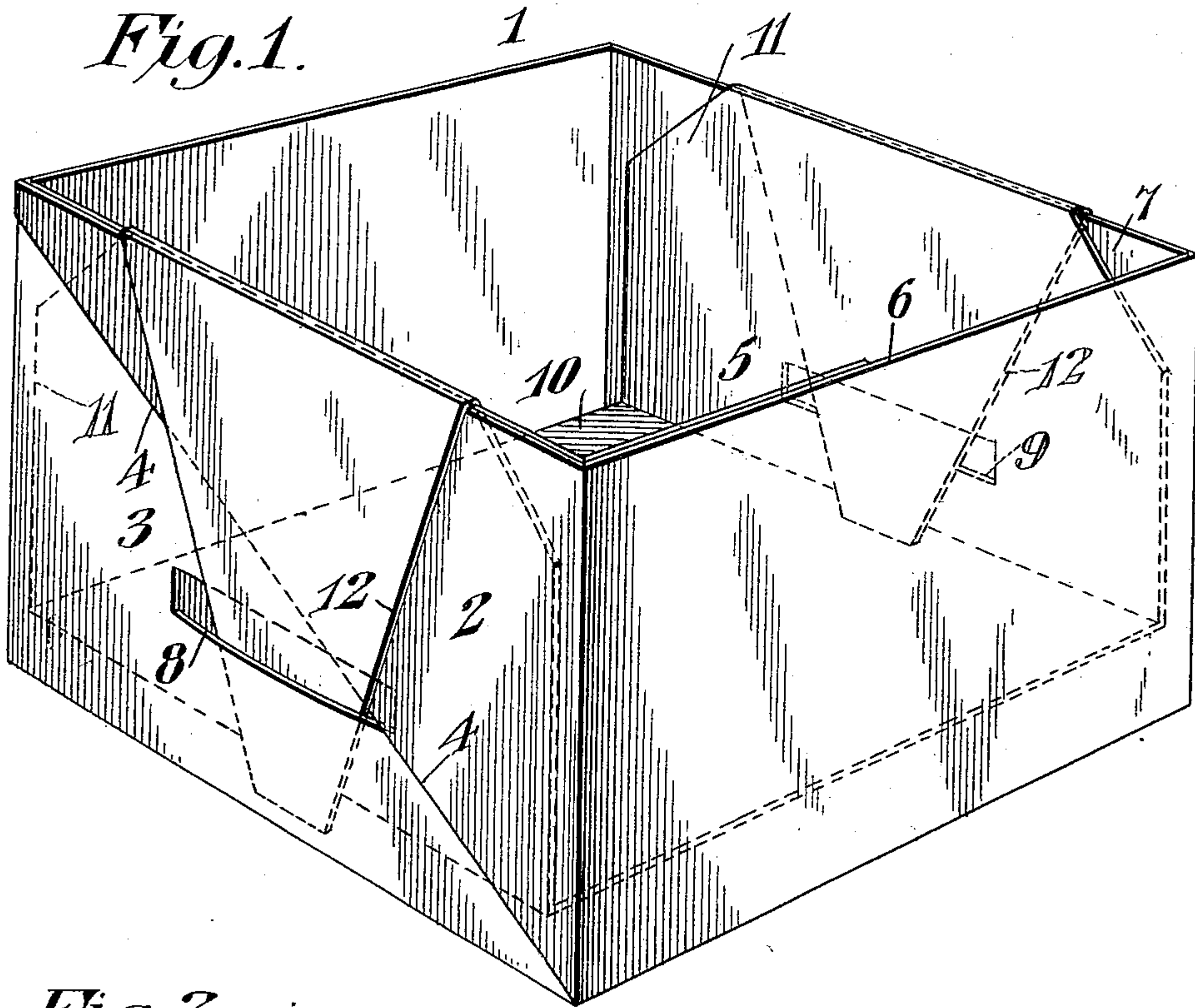
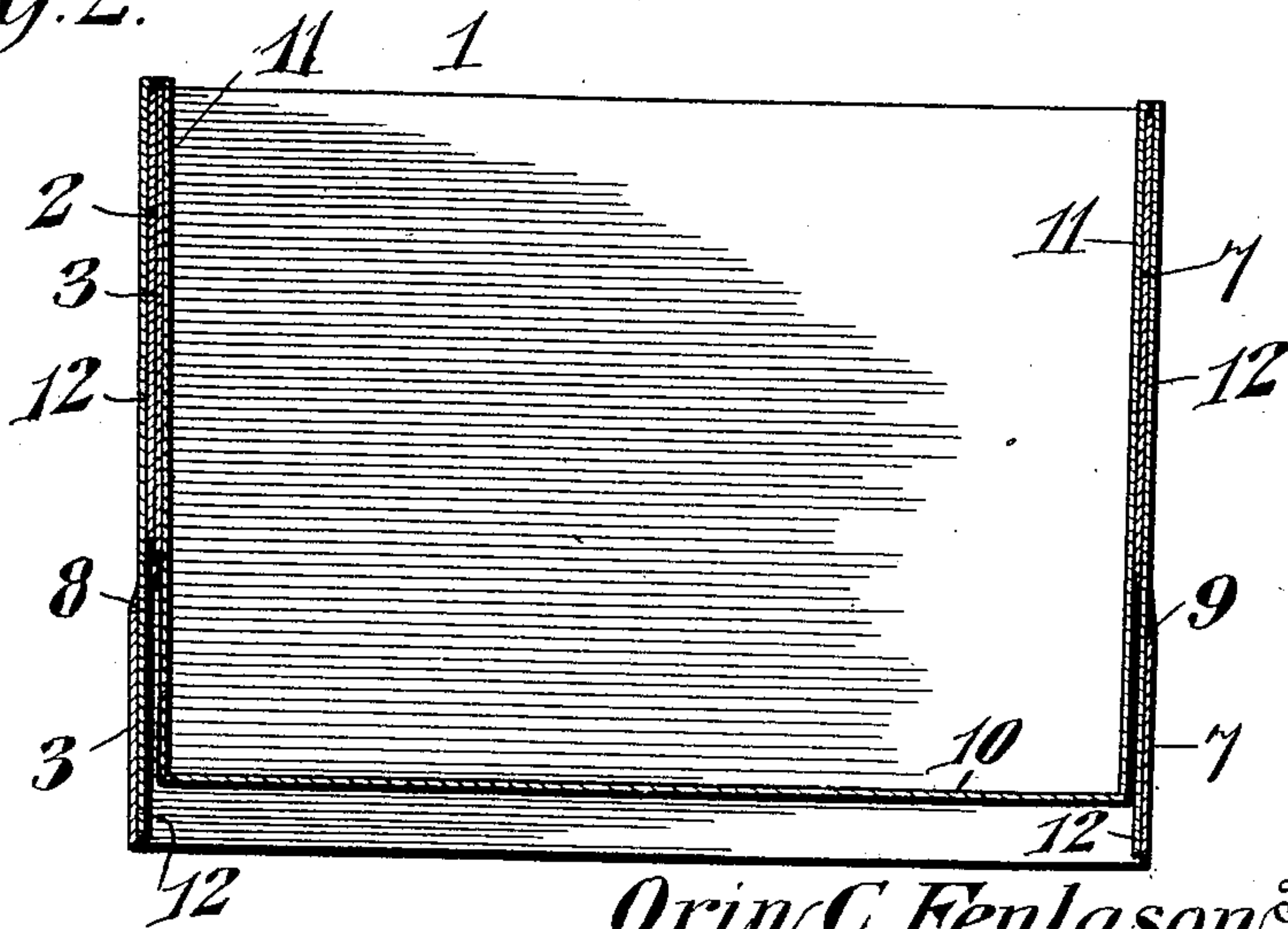


Fig. 2.



Witnesses

James K. McLaughlin
J. F. Riley

Orin C. Fenlason, Inventor

By

E. G. Siggers

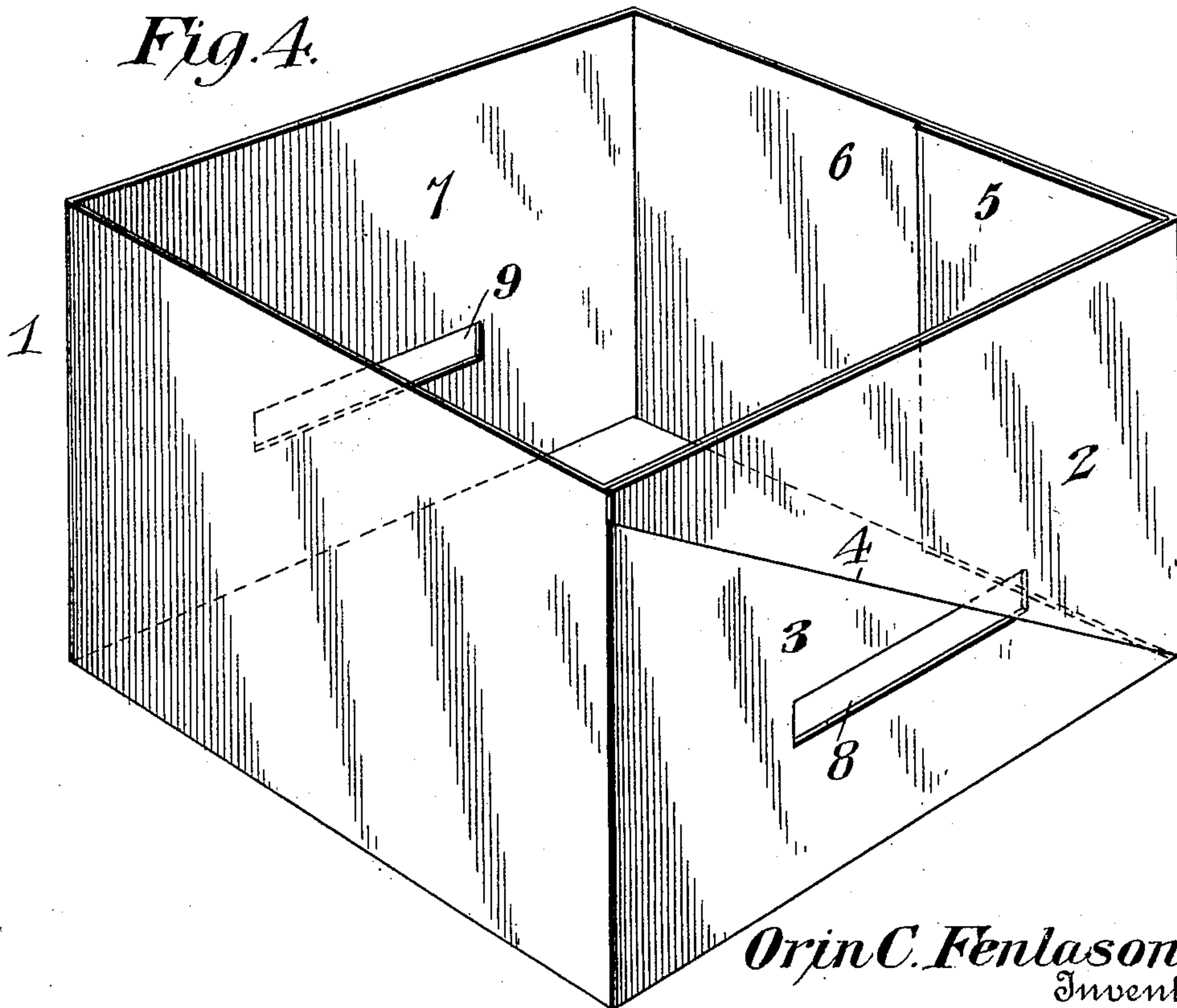
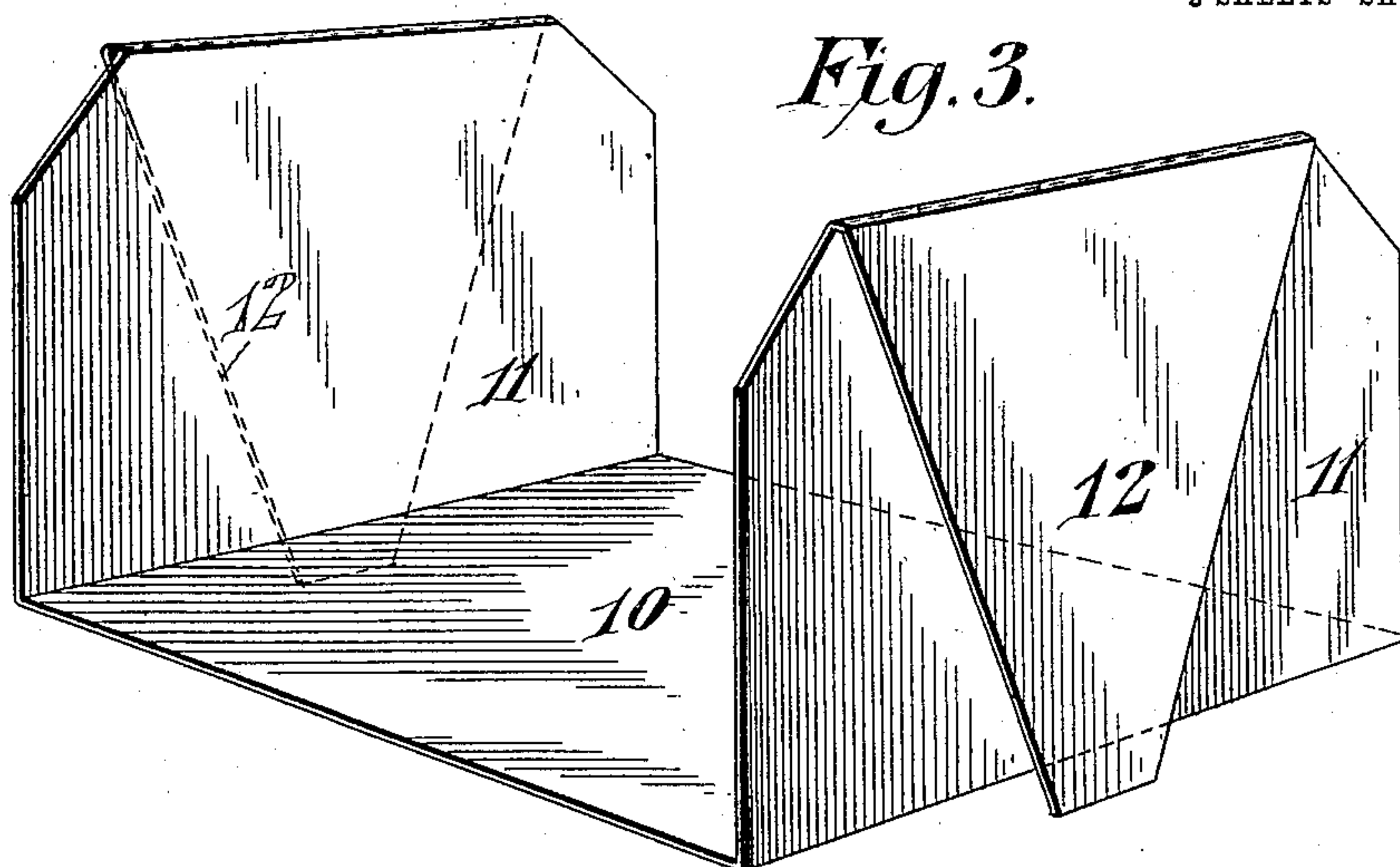
Attorney

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Orin C. Fenlason,
Inventor

Witnesses
Jas. E. McLaughlin
J. F. Riley

By

E. G. Siggel

Attorney

UNITED STATES PATENT OFFICE.

ORIN C. FENLASON, OF HOQUIAM, WASHINGTON.

COLLAPSIBLE VENEER BOX FOR BERRIES, &c.

No. 912,100.

Specification of Letters Patent.

Patented Feb. 9, 1909.

Application filed June 20, 1908. Serial No. 439,590.

To all whom it may concern:

Be it known that I, ORIN C. FENLASON, a citizen of the United States, residing at Hoquiam, in the county of Chehalis and State of Washington, have invented a new and useful Collapsible Veneer Box for Berries, &c., of which the following is a specification.

The invention relates to improvements in collapsible veneer boxes for berries, fruit, vegetables, etc.

The object of the present invention is to improve the construction of collapsible veneer boxes for berries, fruit, vegetables, etc., and to provide a simple and efficient collapsible veneer box adapted to be easily and quickly arranged for use, and capable of being rapidly and cheaply constructed by automatic machinery.

A further object of the invention is to provide a veneer box of this character, adapted to effect a great saving in freight charges and in the cost of construction by eliminating staples, or similar fastening devices for securing the parts together, and thereby enabling the boxes to be shipped in full cars at the regular box shuck rate, which is much lower than the rate on material made up or fastened together with wire staples.

With these and other objects in view, the invention consists in the construction and novel combination of parts hereinafter fully described, illustrated in the accompanying drawings, and pointed out in the claims hereto appended; it being understood that various changes in the form, proportion, size and minor details of construction, within the scope of the claims, may be resorted to without departing from the spirit or sacrificing any of the advantages of the invention.

In the drawings:—Figure 1 is a perspective view of a collapsible veneer box, constructed in accordance with this invention. Fig. 2 is a central vertical sectional view, taken longitudinally of the strip forming the bottom of the box. Fig. 3 is a detail perspective view of the detachable bottom and its supporting means. Fig. 4 is a perspective view of the body of the box, the bottom being removed.

Like numerals of reference designate corresponding parts in all the figures of the drawings.

The box is provided with a collapsible rectangular body 1, consisting of a single sheet or strip of veneer of sufficient length to form

the four walls. The ends of the strip of veneer are overlapped at one of the corners of the box, and one end is provided with a tapering extension or member 2 of a length coextensive with that of the adjacent side 3 of the box. The tapering extension 2 is provided with a horizontal upper edge, which is arranged in flush relation with the upper edge of the side 3, and it has a lower inclined edge 4, extending downwardly from a point adjacent to the upper corner of one end of the side 3 to the lower corner of the opposite end. The side 3 is reinforced and the box is stiffened by the tapering extension 2. The other end of the strip of veneer is provided with a relatively short rectangular flap or extension 5, overlapping approximately one half of the side or wall 6 of the body and arranged at right angles to the extension 2. The side or wall 3 and the opposite side or wall 7 are provided with horizontal slots 8 and 9, and the flap or extension 5 is provided for the purpose of preventing the side 3 from splitting at the slot 8. By extending the end portion of the veneer strip along the wall 6, there is no danger of the veneer being split by the clamping action of a detachable foldable bottom 10.

The removable bottom 10 is provided with upwardly extending supporting or hanger portions 11, having tapering flaps 12, which extend downward from the top of the hanger or supporting portions 11. The bottom 10, which conforms to the configuration of the body of the box, prevents the same from collapsing. The supporting or hanger portions, which suspend the bottom from the upper edges of the body, extend upward at the inner faces of the walls 3 and 7 from the bottom to the upper edges of the body, and the flaps 12, which are arranged exteriorly of the body, pass through the horizontal slots 8 and flex or bend the material, thereby clamping the upper portions of the contiguous walls and causing the material of the latter to frictionally engage the said flaps, whereby the bottom is securely retained in position and the box stiffened at the upper edges. The tapering extension 2 is firmly held between the contiguous flap and the adjacent supporting portion of the bottom. The upper edges of the extension 2 and the wall 3 are confined in the crotch formed by the flap and the supporting portion, and the flexing of the material at the slot produces a

positive clamping action at the lower edge of the extension 2. The tapering flaps of the supporting portions of the bottom extend downward to practically the lower edges of the body, and the horizontally disposed flap of the body strip, which has its lower inclined edge crossing the slot 8 at one end thereof, is frictionally engaged by the contiguous flap 12 of the bottom member, whereby the overlapped portions of the body strip are securely clamped together. This obviates the necessity of employing the staples, or other similar fastening devices for securing the ends of the body strip together.

The collapsible body and the bottom member through their scorings are capable of being compactly folded, as will be readily understood, and as no portion of the box is made up or fastened together by staples or similar fastening devices, the entire box may be shipped in full cars at the regular box shuck rates, thereby securing the minimum freight charges.

In the present application I have not claimed broadly a knock-down or collapsible box including a body consisting of a single strip of veneer, scored at the corners to permit the body to fold inwardly and provided with opposite slots, and a bottom having a supporting portion extending upwardly from the bottom to the upper edges of the body and provided with flaps, depending from the upper edges of the body and extending through the said slots from the exterior of the body, as this is shown, described and claimed in a companion application, Serial No. 439,589, filed of even date herewith.

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

1. A collapsible or knock-down veneer box including a foldable body provided with opposite slots and consisting of a strip of veneer overlapped and crossing one of the slots, and a separate detachable bottom having upwardly extending supporting portions provided with exterior flaps passing through the said slots and retaining the ends of the body strip in their overlapped relation.

2. A collapsible or knock-down veneer box including a foldable body provided with opposite slots and consisting of a strip of veneer overlapped and crossing one of the slots, and a separate detachable bottom having supporting portions extending upward to the upper edges of the body and provided at the top with depending flaps passing through the slots and bending or flexing the material, whereby the parts are frictionally engaged with each other and the overlapped portions of the body strip clamped together.

3. A collapsible or knock-down veneer box including a foldable body provided with op-

posite slots and consisting of a strip of veneer having its ends overlapped and provided at one of its ends with an extension or member crossing one of the slots, and a separate detachable bottom provided with upwardly extending supporting portions having exterior flaps passing through the slots, one of the flaps engaging the extension of the body strip and clamping the overlapped portions thereof together.

4. A collapsible or knock-down veneer box including a foldable body provided with opposite slots and consisting of a strip of veneer provided with overlapped ends and having one end tapered to form an extension crossing one of the slots and having an inclined edge located adjacent to the same, and a separate detachable bottom having supporting portions extending to the upper edges of the body and provided with exterior flaps passing through the said slots, one of the flaps engaging the inclined edge of the extension of the body strip and securing the overlapped portions of the same together.

5. A collapsible or knock-down veneer box including a foldable body provided with opposite slots and consisting of a strip overlapped at one of the corners of the box, one end of the strip being provided with an extension located adjacent to one of the said slots and the other end of the strip being provided with a flap arranged at an angle to the said extension, and a separate detachable bottom provided with supporting portions extending upward to the upper edges of the body and having exterior flaps extending downward from the tops of the supporting portion and passing through the said slots, one of the flaps engaging and clamping the extension of the body strip.

6. A collapsible or knock-down veneer box including a body provided at opposite sides with slots and consisting of a strip of veneer overlapped at one of the corners of the box, one end of the body strip being tapered and extending across and above one of the said slots, and the other end of the veneer being provided with a relatively short rectangular flap arranged at an angle to the said extension, and a bottom having supporting portions extending upward to the upper edges of the body and provided at the top with depending extensions arranged exteriorly of the body and passing through the said slots, one of the flaps of the bottom engaging and clamping the tapered extension of the body strip and securing the ends of the latter in their overlapped relation.

7. A collapsible or knock-down box including a foldable body consisting of a single sheet of material of sufficient length to form four sides or walls, the ends being overlapped at one of the corners of the box, one end being provided with a tapering extension or member of a length coextensive with that of

the adjacent side of the box and extending downward from a point adjacent to the upper corner of one end of one side to the lower corner of the opposite end of the same side, the contiguous side or wall of the box being provided with a slot, and a separate detachable member having a flap passing through the slot and securing the ends of the material in their overlapped relation.

- 10 8. A collapsible or knock-down box including a foldable body provided with opposite slots and consisting of a single sheet of material of sufficient length to form four sides or walls, the ends being overlapped at
15 one of the corners of the box, one end being provided with a tapering extension or mem-

ber of a length co-extensive with that of the adjacent side of the box and extending downwardly from a point adjacent to the upper corner of one end of one side to the lower corner of the opposite end of the same side, and a separate detachable member provided with flaps passing through the slots and securing the ends of the material in their overlapped relation.

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

ORIN C. FENLASON.

Witnesses:

ELMER V. SMITH,

ALTON R. KELLOGG.