(No Model.)

# W. LIVINGSTONE.

## BOX.

No. 252,389. Patented Jan. 17, 1882.

Fig. 1

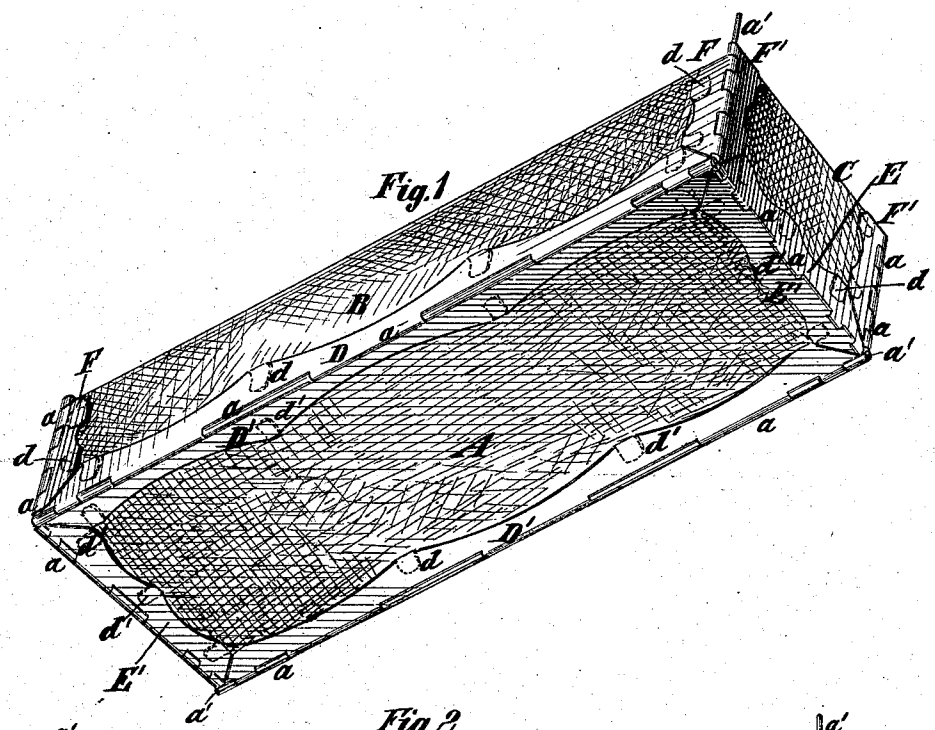
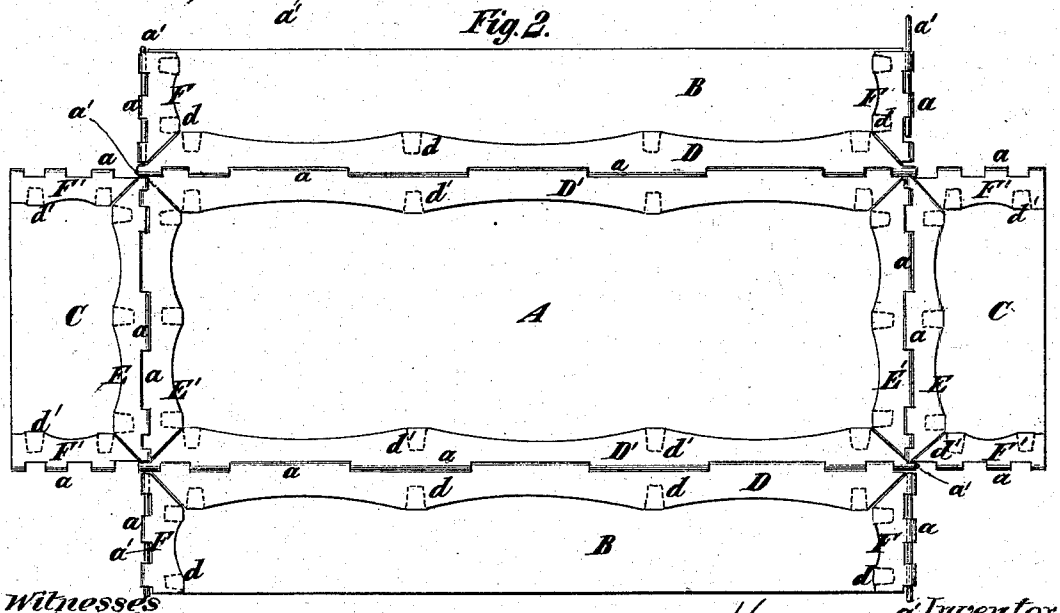



Fig. 2.




Witnesses
J. J. Keane
Fred. F. Wayne

a' Inventor
William Livingstone
By his Attorney
Edwin H. Brown.

N. PETERS, Photo-Lithographer, Washington, D. C.

# UNITED STATES PATENT OFFICE.

WILLIAM LIVINGSTONE, OF NEW YORK, N. Y., ASSIGNOR TO HIMSELF AND LEWIS W. MAIRES, OF SAME PLACE.

## BOX.

SPECIFICATION forming part of Letters Patent No. 252,389, dated January 17, 1882.

Application filed September 1, 1881. (No model.)

*To all whom it may concern:*

Be it known that I, WILLIAM LIVINGSTONE, of New York, in the county and State of New York, have invented certain new and useful Improvements in Boxes and Analogous Receptacles, of which the following is a specification.

My improvements relate particularly to boxes and analogous receptacles made of card-board, binders' board, paper, and like thin and cheap materials; and the object of the improvements is to strengthen and improve the appearance of said boxes and receptacles without increasing their cost, and to facilitate their packing for transportation.

My improvements consist in a box comprising a bottom, sides, and ends made of card-board, binders' board, paper, or like material, metal corner-pieces affixed thereto, and provided with eyes or bearers, which are adapted to intermatch with the eyes or bearers of adjacent corner-pieces, pins extending parallel with the bottom and passing through the intermatched eyes or bearers, which are located at the junction of the bottom and ends or sides, and other pins extending at an angle to the bottom and passing through the eyes or bearers of the corner-pieces, which are located at the junction of the ends and sides, the whole being so combined and organized that the said pins coact to secure the box in form, and the corner-pieces serve as a means of connecting the component parts of the box and strengthen and protect them at the corners. The aforesaid corner-pieces are of sheet metal, and are provided with claws or prongs which are inserted through the parts of the box to which they are secured and clinched or bent over to secure the metal corner-pieces thereto.

In the accompanying drawings, Figure 1 is a perspective view of a box embodying my improvements, and Fig. 2 is an inverted plan of the same spread out or extended.

Similar letters of reference designate corresponding parts in both figures.

A designates the bottom, B designates the sides, and C designates the ends, of a box, all said parts being made of card-board, binders' board, paper, wood, or analogous thin and cheap material.

D designates corner-pieces applied to the lower portion of the sides of the box, and secured thereto by means of claws or prongs *d*, extending from them and entering the said sides.

D′ designates corresponding corner-pieces applied to the bottom of the box, and secured thereto in the same manner as the corner-pieces D are secured to the sides of the box, through the agency of claws or prongs *d′*. These corner-pieces D and D′ are provided with eyes or bearers *a*, which intermatch, and which are adapted to receive pins or pintles *a′*, extending parallel with the bottom, whereby they are united.

The ends are secured to the bottom of the box by corner-pieces E E′, fastened to the respective parts by similar claws or prongs provided with similar eyes or bearers united by a pin in the same way.

The upright edges of the sides of the box are provided with corner-pieces F, and the upright edges of the ends of the box are provided with corner-pieces F′, like those before described. These corner-pieces, like the others, are secured to their respective parts by claws or prongs *d d′*, and are provided with eyes or bearers *a*, which intermatch, and are united by pins *a′*, which extend at an angle to the bottom. These corner-pieces are preferably made of metal, and they may have any ornamental outline, so as to enhance the appearance of the box. The several pairs of these corner-pieces constitute shields which strengthen the box and protect its corners. It will be observed that the several pairs of shields are contiguous to each other, and that together they protect all the corners of the box.

It is obvious that my improvements are adapted to various other receptacles.

The sides and ends of the box may be united to the bottom, and the upright edges of the sides and ends may be left unconnected. Then the box may be spread out, as shown in Fig. 2, and with a number of others can be compactly packed for shipment. They should be accompanied by a number of pins or pintles suitable for connecting the upright edges of their sides and ends, and these may be fitted into the eyes or bearers of certain of the corner-pieces which are applied to these edges.

On the arrival of the boxes at their destina-

tion the upright edges of the sides and ends of these boxes may easily be united.

It is obvious that by my improvements I can produce a very strong box of fine appearance at a very low cost, and moreover a box which can be transported very cheaply.

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

1. A box comprising a bottom, sides, and ends, made of card-board, binders' board, paper, or like material, metal corner-pieces affixed thereto and provided with eyes or bearers, which are adapted to intermatch with the eyes or bearers of adjacent corner-pieces, pins extending parallel with the bottom and passing through the intermatched eyes or bearers which are located at the junction of the bottom and the ends or sides, and other pins extending at an angle to the bottom and passing through the eyes or bearers of the corner-pieces which are located at the junction of the ends and sides, the whole being so combined and organized that the said pins coact to secure the box in form, and the corner-pieces serve as a means of connecting the component parts of the box and strengthen and protect them at the corners, substantially as specified.

2. The combination, with the bottom, sides, and ends A B C of the box, made of card-board, binders' board, paper, or like material, of corner-pieces D D′ E E′ F F′, secured thereto by means of claws or prongs *d d′*, and provided with intermatched eyes or bearers *a* and pins *a′*, arranged parallel with and at an angle to the bottom, and adapted to be inserted through the intermatched eyes or bearers, substantially as specified.

WM. LIVINGSTONE.

Witnesses:
T. J. KEANE,
FREDK. HAYNES.