

W. M. WAY.
EXTENSION CRATE.
APPLICATION FILED NOV. 3, 1913.

1,135,231.

Patented Apr. 13, 1915.

Fig. 1.

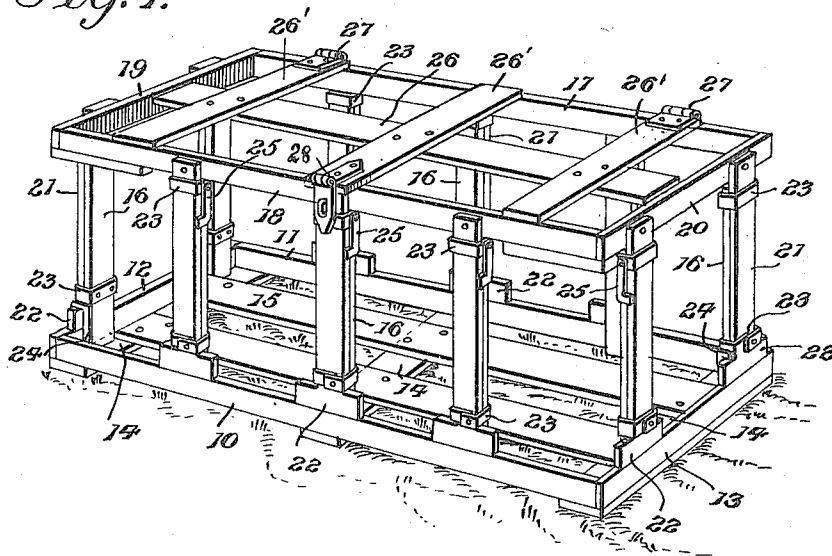
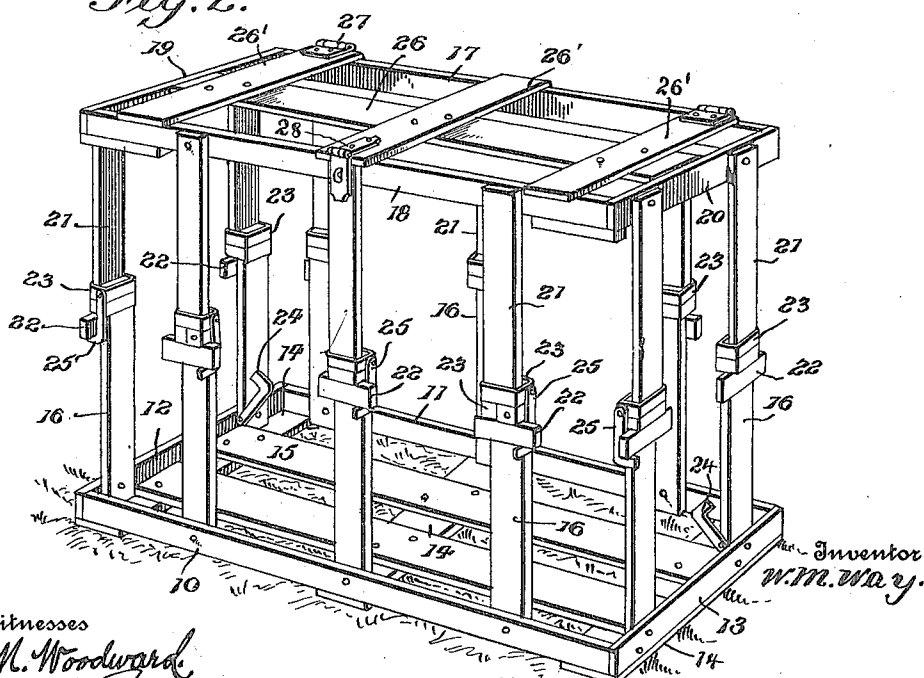


Fig. 2.



Witnesses

C. H. Woodward

[Signature]

By

[Signature] Attorneys.

Inventor
W. M. Way.

UNITED STATES PATENT OFFICE.

WALTER M. WAY, OF TACOMA, WASHINGTON.

EXTENSION-CRATE.

1,135,231.

Specification of Letters Patent. Patented Apr. 13, 1915.

Application filed November 3, 1913. Serial No. 798,968.

To all whom it may concern:

Be it known that I, WALTER M. WAY, citizen of the United States, residing at Tacoma, in the county of Pierce and State of Washington, have invented certain new and useful Improvements in Extension-Crates, of which the following is a specification.

This invention relates to improvements in crates and similar devices of the class capable of being adjusted to increase or decrease the capacity, and has for one of its objects to improve the construction and increase the efficiency and utility of devices of this character.

With these and other objects in view the invention consists in certain novel features of construction as hereinafter shown and described and then specifically pointed out in the claims, and in the drawings illustrative of the preferred embodiment of the invention.

Figure 1 is a perspective view of the improved device closed, or with all of the parts arranged to show the crate of the smallest capacity. Fig. 2 is a perspective view showing the crate with the parts arranged to show the greatest capacity.

Corresponding and like parts are referred to in the following description and indicated in all the views of the drawings by the same reference characters.

The improved device may be constructed of any required size or proportion, and of any suitable material, and it is not desired therefore, to limit the device in any manner in this respect.

The improved device comprises a base member having a plurality of vertical standards, an upper frame having a plurality of vertical standards corresponding in number and adapted to slidably engage the standards of the base, a closure for the upper frame, and coupling means between the standards to retain them in their parallel relations, and providing means whereby the standards may be locked in their lowered or elevated position.

The base member is preferably formed of an inclosing frame comprising side members 10—11 end members 12—13 transverse members 14 spaced apart, and longitudinal members 15, the latter being likewise spaced apart. By this means the bottom member is in the form of an open frame provided with supporting slats upon which the contents of the crate are supported. Any re-

quired number of the transverse members 14 and the slats 15 may be employed, and it is not desired to limit the invention in this respect.

Rising from the side members 10—11 and the end members 12—13 are a plurality of standards 16 spaced apart to any required extent. Any required number of the standards may be employed, depending upon the nature of the goods which are to be shipped in the crate, but for the purpose of illustration two of the standards are shown connected to the ends of the base member and three of the standards connected to each of the side members of the base.

The top of the crate comprises an encompassing frame formed of side members 17—18 and end members 19—20, the upper frame members corresponding substantially in outline to the lower member or base.

Depending from the upper frame member are a plurality of standards 21 corresponding in number to the standards 16 and slidably engaging respectively therewith as shown. At its lower end each of the standards 21 is provided with lateral offsets or enlargements 22 which bear when the device is collapsed or disposed in its smaller size upon the upper edges of the members 10—11—12—13, as shown in Fig. 1. Each pair of the standards is provided with inclosing bands 23 which retain the standards in their slidable relations and prevent them from displacement laterally. By this simple means it will be obvious that the upper frame member together with its depending standards may be elevated until the guide bands 23 of the standards are in contact as shown in Fig. 2, or adjusted downwardly until the transverse portions 22 are in engagement with the upper edges of the base members as shown in Fig. 1.

Pivoted to each of the standards 16 near its lower end is a hook 24 adapted to engage over the lateral portions 22 of the upper standards 21 when the device is in its lowered position, as shown in Fig. 1, and thus lock the device in closed position. Similar hooks 25 are pivoted to the standards 16 at their upper ends, preferably to the upper strap 23 and adapted to be engaged beneath the projections 22 when the device is in its open position as shown in Fig. 2. By this means the device may be locked in open or closed position as may be preferred.

The upper member of the improved de-

vice is provided with a closure, preferably formed of a longitudinal slat 26 and transverse slats 26', two or more of the slats being hingedly united at 27 to the member 17, while one or more of the slats 26' and one of the standards 21 are provided with a fastening device, such as a hasp and staple 28. By this means the contents of the crate may be inserted or removed, and the contents protected and prevented from displacement.

The improved device is designed to be employed more particularly for shipping crates of goods, or goods in bulk of the character too large to pass between the slidably engaged standards.

Having thus described the invention, what is claimed as new is:

1. A device of the class described comprising a base, a plurality of standards spaced apart and rising from said base, an upper member, a plurality of standards connected to said upper member and slidably engaging respectively with the standards of the base, means adapted to couple the standards for slidable movement, fastening devices operating to limit the upward movement of the standards on the upper member, and means operating to hold the standards in collapsed position.

2. A device of the class described comprising a base, a plurality of standards spaced apart and rising from said base, an upper member, a plurality of standards connected to said upper member and slidably

engaging respectively with the standards of the base, each of the standards of the upper member having lateral stops at their lower ends, clips coupling the standards for slidable movement, fastening devices carried by the base and engaging over the stops when the upper member and its standards are in their lower position, and other fastening devices carried by the standards of the lower member for engaging the stops when the upper member and its stop are in their upper position.

3. A device of the class described comprising a base, a plurality of standards spaced apart and rising from said base, an upper member, a plurality of standards connected to said upper member and slidably engaging respectively with the standards of the base, each of the standards of the upper member having lateral stops at their lower ends, clips coupling the standards for slidable movement, fastening devices engaging over the stops when the upper member and its standards are in their lower position, and other fastening devices engaging the stops when the upper member and its stops are in their upper position.

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

WALTER M. WAY. [L. S.]

Witnesses:

J. L. STEWART,
MAUDE WAY.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."