Aug. 25, 1925. 1,550,745

W. K. REHMAN

KNOCKDOWN SHIPPING CRATE

Filed Oct. 25, 1924

Fig. 1.

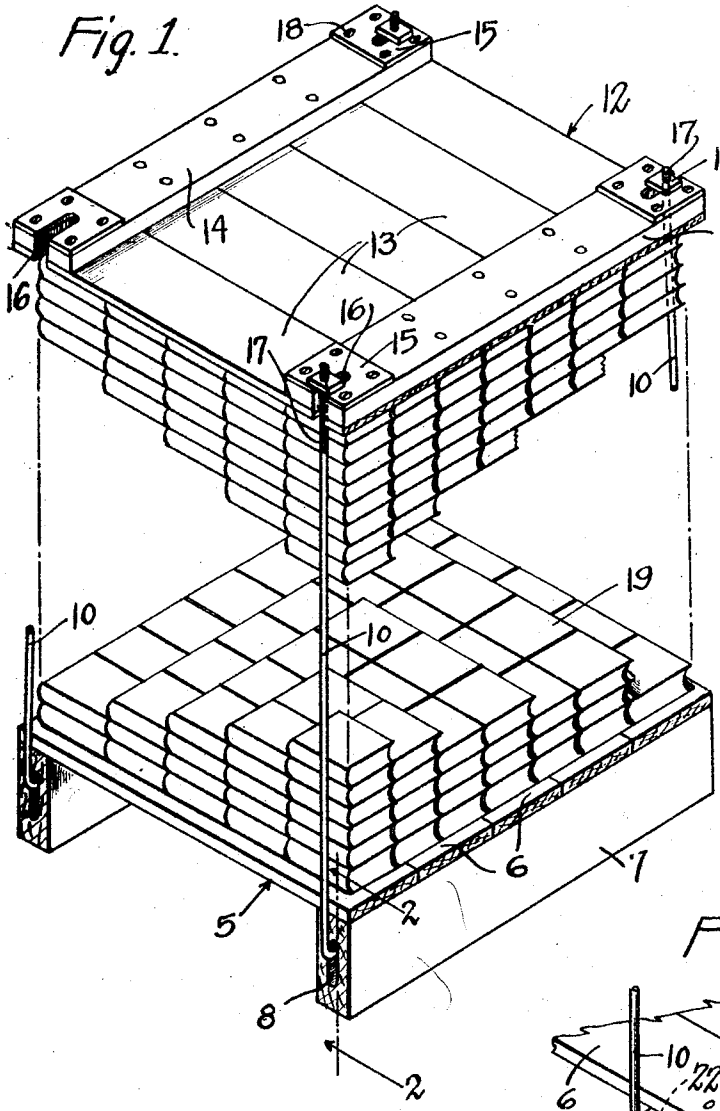


Fig. 2.

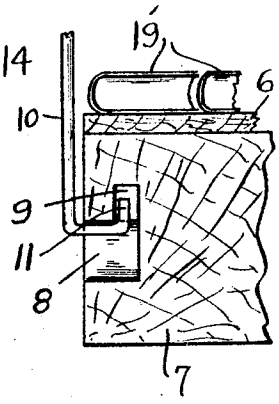


Fig. 3.

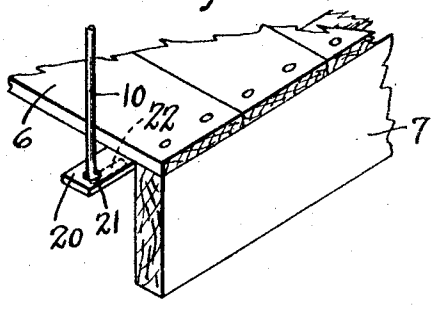
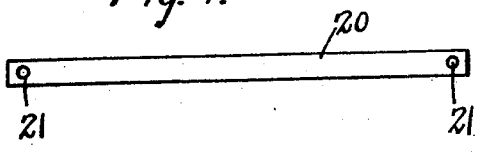


Fig. 4.



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UNITED STATES PATENT OFFICE.

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KNOCKDOWN SHIPPING CRATE.

Application filed October 25, 1924. Serial No. 745,734.

To all whom it may concern:

Be it known that I, WILLIAM K. REHMAN, a citizen of the United States of America, residing at Mineola, Nassau County, State of New York, have invented certain new and useful Improvements in Knockdown Shipping Crates, of which the following is a specification.

This invention relates to shipping crates and in particular to a knockdown type which is used in the shipping of books or the like.

A particular object of the invention is to provide a crate of the character described which can be used to ship books in large quantities from the publishing house to the distributing stations in motor trucks, the crates being constructed so that when loaded they may be moved about on a hand truck.

A further object is to provide a case which will keep the books pressed and in shape during such shipment and which when not in use can be knocked down for compact storage.

A still further object is to provide a crate which can be used a number of times and which besides accommodating a large number of books can be adjusted to allow for a variable number of books.

Referring to the drawing wherein I have shown a preferred embodiment of my invention:—

Figure 1 is a view in perspective of my improved crate filled with books and ready for shipment.

Figure 2 is an enlarged section taken on the line 2—2 of Figure 1 showing how the holding rods may be separately held in the bottom side pieces.

Figure 3 is a fragmentary view in perspective of a corner of the shipping case showing a modified form of rod holding means; and

Figure 4 is a view of a separate strip member used in conjunction with the bottom of the crate, and illustrates a modified form of my invention.

In the drawing 5 indicates the base member of the shipping crate consisting of a plurality of boards 6 attached at their ends to the side pieces 7 which are of heavier stock and are disposed on their edges to hold the bottom or base 5 in spaced relation with the floor. This space allows for placing the usual pneumatic hand truck in position beneath the crate preparatory to moving it along the floor.

The ends of the side pieces 7 are provided with openings 8 having extended recesses 9 therein, the lower ends of the rods 10 being bent into hook portions 11 to engage within the openings 8 and the recesses 9 of the side pieces. When the rods are in final position the recesses prevent their accidental withdrawal.

The top 12 of the crate is constructed of boards 13 bound by the reinforcing members 14 at the ends of which are fastened face plates 15; the boards, the reinforcing members and the face plates 15 being provided with cut outs 16 to allow for passage therethrough of the binding or connecting rods 10. The rods 10 are disposed at the corners of the crate, one at each corner, and are provided at their upper ends with the screw threads 17 over which passes suitable nuts 18, so that when the rods are in place, the top may be forced down through the medium of said nuts to compress the books 19 and securely hold the same in position during the shipping of the crate.

In the modification shown in Figures 3 and 4, I provide a separate strip member 20 of metal or heavy wood having an opening 21 in the ends thereof through which passes the binding rods 10, the lower end of the rod being bent as at 22 so that it will engage and draw on the strip upwardly when the nut is tightened.

It will be seen therefore, that I have provided a crate which is particularly adapted for shipping books in large quantities and which can be taken apart and stored in a very small space, with a minimum of time and labor.

The crate is particularly adapted for use where the books are prepared for transportation on the floor and then conveyed to a motor truck for shipment to the distributing station, the crate being so constructed that a hand truck can be placed thereunder after it is loaded.

Having described my invention, what I claim is:—

A shipping crate comprising a base member adapted to serve as a platform on which books or the like may be piled, side pieces on the base, a top piece adapted to rest on the book piles, rods connecting said side pieces and the top piece, means on one end of the rods for forcing the top piece down to compress the books, the opposite ends of the rods being hooked, and the side pieces being provided with openings to receive the hooked ends of said rods.

WILLIAM K. REHMAN.