

(No Model.)

2 Sheets—Sheet 1.

C. A. GRANT.
BOX.

No. 557,120.

Patented Mar. 31, 1896.

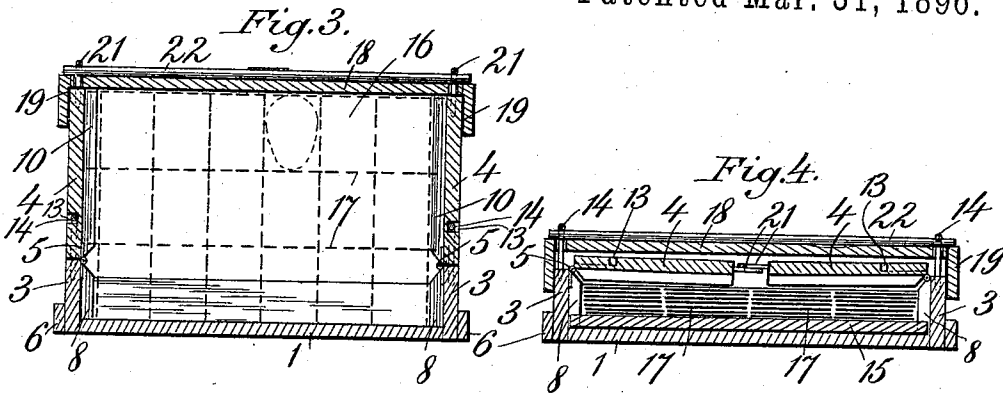


Fig. 1.

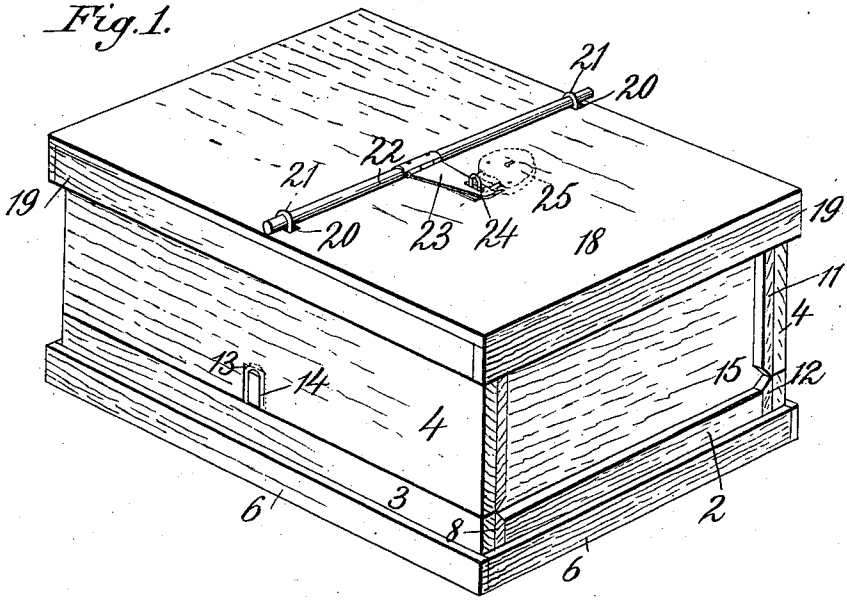
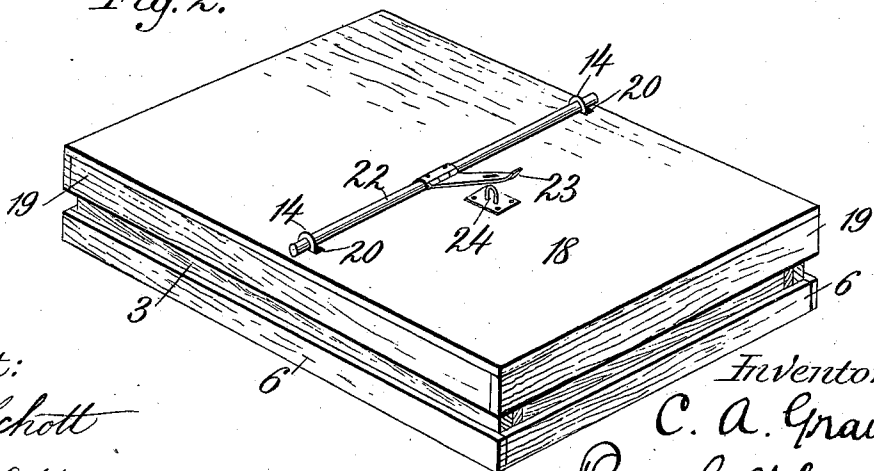


Fig. 2.



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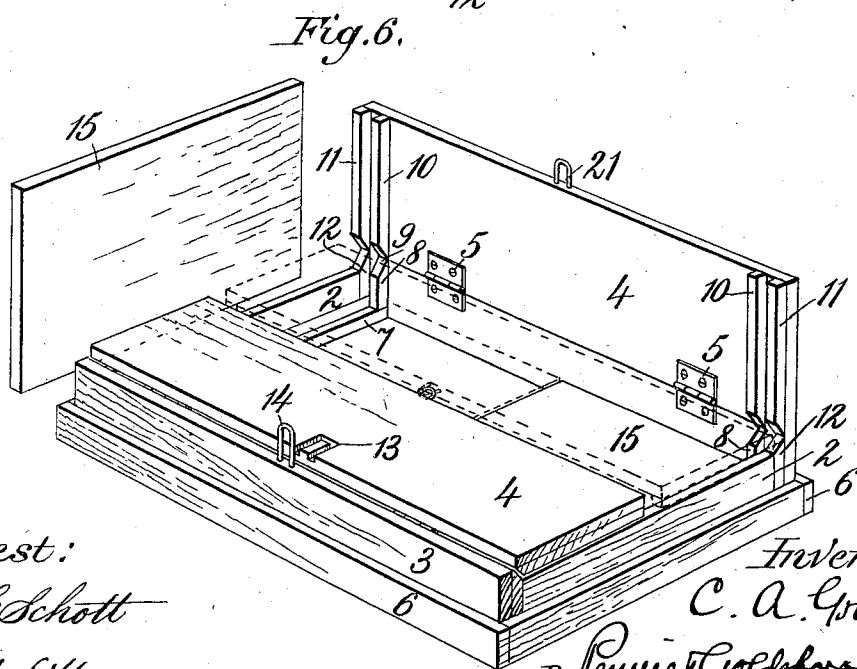
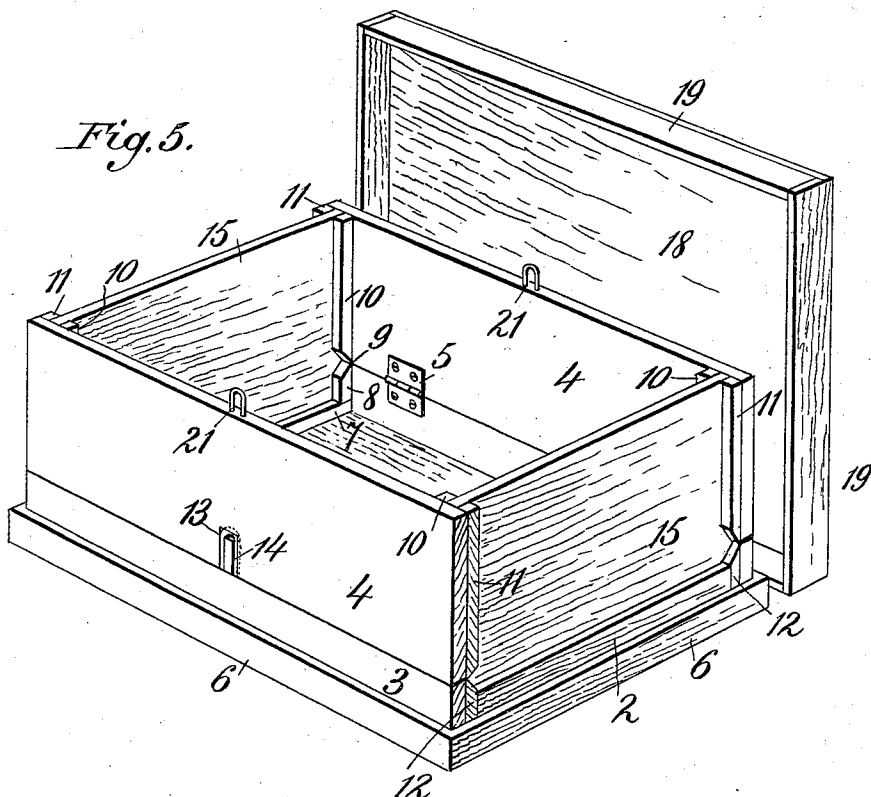
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2 Sheets—Sheet 2

C. A. GRANT.
BOX.

No. 557,120.

Patented Mar. 31, 1896.



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UNITED STATES PATENT OFFICE.

CHARLES ADRIAN GRANT, OF MIDDLEBURG, VIRGINIA.

BOX.

SPECIFICATION forming part of Letters Patent No. 557,120, dated March 31, 1896.

Application filed November 12, 1895. Serial No. 568,704. (No model.)

To all whom it may concern:

Be it known that I, CHARLES ADRIAN GRANT, a citizen of the United States, residing at Middleburg, in the county of Loudoun and State of Virginia, have invented certain new and useful Improvements in Boxes or Crates; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to boxes or crates adapted for the safe and convenient transportation of eggs or other produce or merchandise.

The object of the invention is to provide a knockdown packing box or crate that may be compactly folded and stored, or packed for return transportation, into small compass relatively to its size and capacity when in use.

My improvement is specifically described hereinafter, and illustrated in the accompanying drawings, in which—

Figure 1 is a view in perspective of the box or crate with its parts secured together and locked ready for transportation. Fig. 2 is a similar view of the same with its ends removed and concealed within the box and its sides and cover folded and secured together. Fig. 3 is a transverse vertical section of Fig. 1. Fig. 4 is a similar section of Fig. 2. Fig. 5 is a perspective view of the box with its cover removed, and Fig. 6 illustrates in perspective and partly in dotted lines the removability of the end boards and the folding of the hinged sides.

The reference-numeral 1 indicates the bottom of the box, provided with end strips 2 and parallel side strips 3, the latter extending upwardly slightly above the upper edges of the end strips 2 to permit the inward folding of the side boards 4. These sides 4 are secured to the strips 3, one to each strip, by hinges 5. I preferably reinforce the bottom of the box by binding-strips 6 at both the ends and sides, as shown; but this is not an essential feature of the construction. The bottom 1 is provided on its upper side and near its ends with transverse cleats 7, arranged in vertical alinement with short cleats 8, secured to the inner sides of the strips 3 and beveled at their upper ends 9. Each of

the hinged side boards is provided on its inner side at each end with two parallel cleats 10 and 11, beveled at their lower ends. The cleats 10 are arranged in the same vertical plane as the short cleats 8, so that the respective beveled ends of the cleats will coincide to allow the sides 4 to be folded inwardly, as shown clearly in Fig. 6. The beveled ends of the cleats 11 cooperate with beveled end extensions 12 of the strips 2 to permit the folding of the side boards 4. These beveled extensions 12 may be in the same piece with the strips 2 or made separate therefrom and interposed between the ends of the strips 2 and 3, as shown in the drawings.

Each of the side boards 4 is preferably formed at the lower edge of its outer side and centrally of its length with a recess to receive staples 14 projecting from the upper edges of the respective side strips 3. These recesses 13 correspond in general shape to the staples 14, and the latter serve a purpose which will be explained hereinafter.

15 indicates the removable end boards of the crate, adapted, when the side boards are in vertical position, to be sustained in place by the several cleats 7, 8, 10, and 11 and the end strips 2. When the side and end boards are thus in position, as shown in Fig. 5, the crate is ready to be packed. In Fig. 3 I have shown it supplied with tiers of pasteboard egg-cells 16, each cell or compartment being adapted to receive a single egg. The tiers or layers of eggs are separated by removable horizontal partitions 17 in the well-known way, and as is indicated by dotted lines in Fig. 3. It will, however, be understood that any preferred interior packing devices may be used, and that my improved crate may be employed for any purpose for which it may be found adapted.

The cover 18 is preferably provided at its sides and ends with a depending rim or flange 19 to fit over the side and end boards of the box, and it is provided near its side edges with opposite slots 20, through which extend staples 21, projecting from the upper edges of the side bars 4 in parallel relation to receive and retain the ends of a locking-rod 22. This rod 22 is provided centrally with a hasp 23 adapted to take over a staple 24 driven into the top of the cover 18 and to be secured by

