

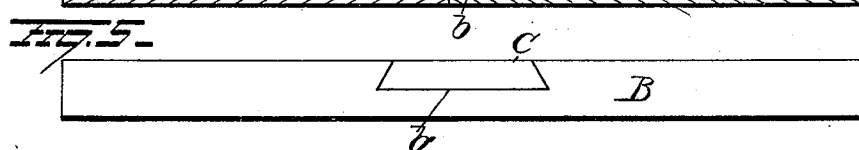
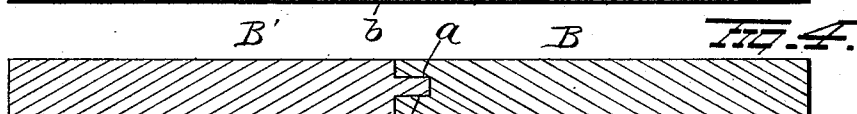
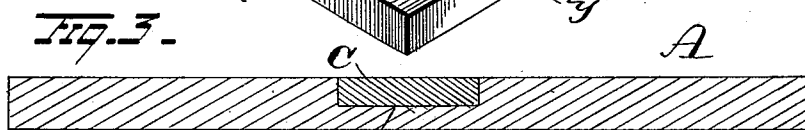
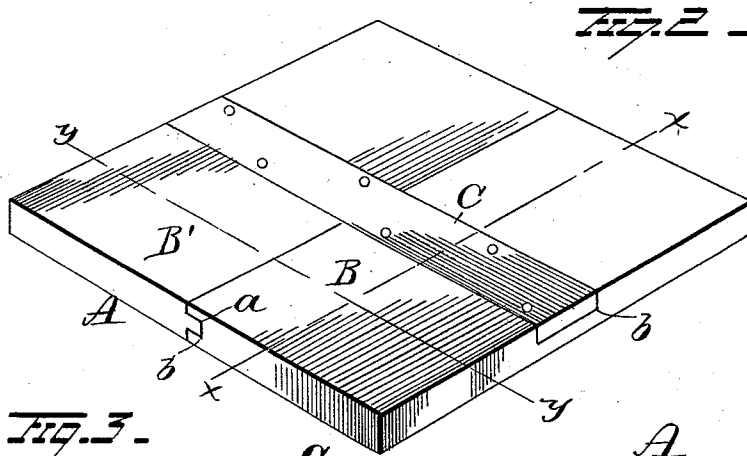
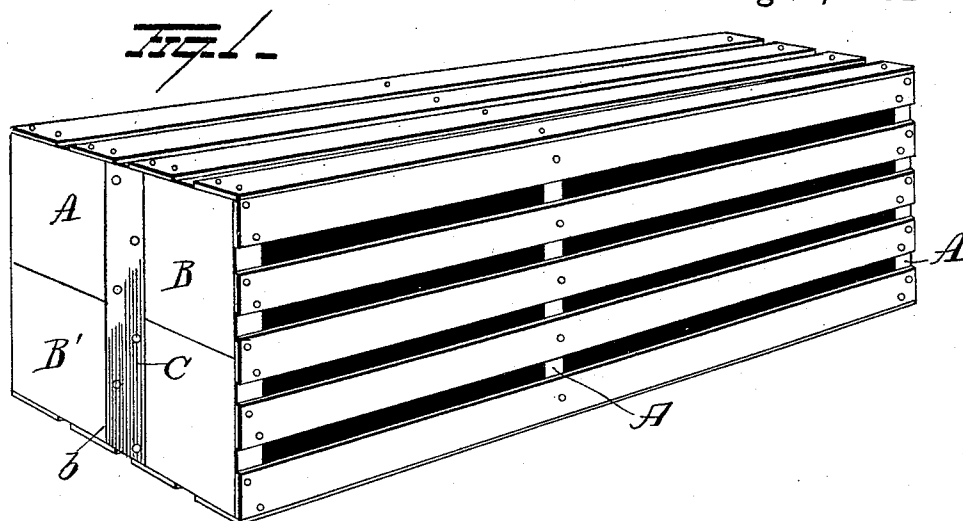
(No Model.)

J. L. EMPIE.

GRATE HEAD.

No. 479,794.

Patented Aug. 2, 1892.



Witnesses
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UNITED STATES PATENT OFFICE.

JOSEPH L. EMPIE, OF ORLANDO, FLORIDA.

CRATE-HEAD.

SPECIFICATION forming part of Letters Patent No. 479,794, dated August 2, 1892.

Application filed August 31, 1891. Serial No. 404,314. (No model.)

To all whom it may concern:

Be it known that I, JOSEPH L. EMPIE, a resident of Orlando, in the county of Orange and State of Florida, have invented certain new and useful Improvements in Crate-Heads; 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 an improvement in crates such as commonly used for shipping oranges and similar articles, and more particularly to an improvement in crate-heads, the object of the invention being to construct a crate-head which shall be substantial and yet very simple and one which shall be cheap to manufacture and easy to put together.

With this object in view the invention consists in certain novel features of construction and combinations and arrangements of parts, as hereinafter set forth, and pointed out in the claims.

In the accompanying drawings, Figure 1 is a perspective view of a crate embodying my improvements. Fig. 2 is a plan view of the crate-head. Fig. 3 is a sectional view on the line *xx* of Fig. 2. Fig. 4 is a sectional view of the line *yy* of Fig. 2. Fig. 5 is a view of a modification.

Each head A of the crate is composed of two or more parts of comparatively narrow boards or blocks B B', the block B having a groove *a* in its inner edge and the block B' having a tongue *a'* on its inner edge and adapted to enter the groove *a* in the block B.

Across the face of the blocks B B', at right angles to the tongue and groove above described, one or more aligned recesses *b* are made, into which a strip or batten C is fitted and secured by means of nails or in any other suitable manner, the face of said batten lying flush with the face of the blocks B B'. In this manner a crate-head is formed which is very simple, yet substantial, and which is cheap and easy to manufacture.

Instead of forming the recesses *b* as above described, they may be made, as shown in Fig. 5, to receive the dovetail edges of the batten C.

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

1. As an article of manufacture, a crate-head composed of strips of material joined by tongues and grooves at their contiguous edges and a batten sunk in the surface of the strips, said batten extending transversely of the joint, substantially as set forth.

2. As an article of manufacture, a crate-head composed of sections joined at their contiguous edges by tongues and grooves and a batten dovetailed in the sections and extending transversely of the joint, substantially as set forth.

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

JOSEPH L. EMPIE.

Witnesses:

J. EDWARD ALLEN,
H. G. GARRETT.