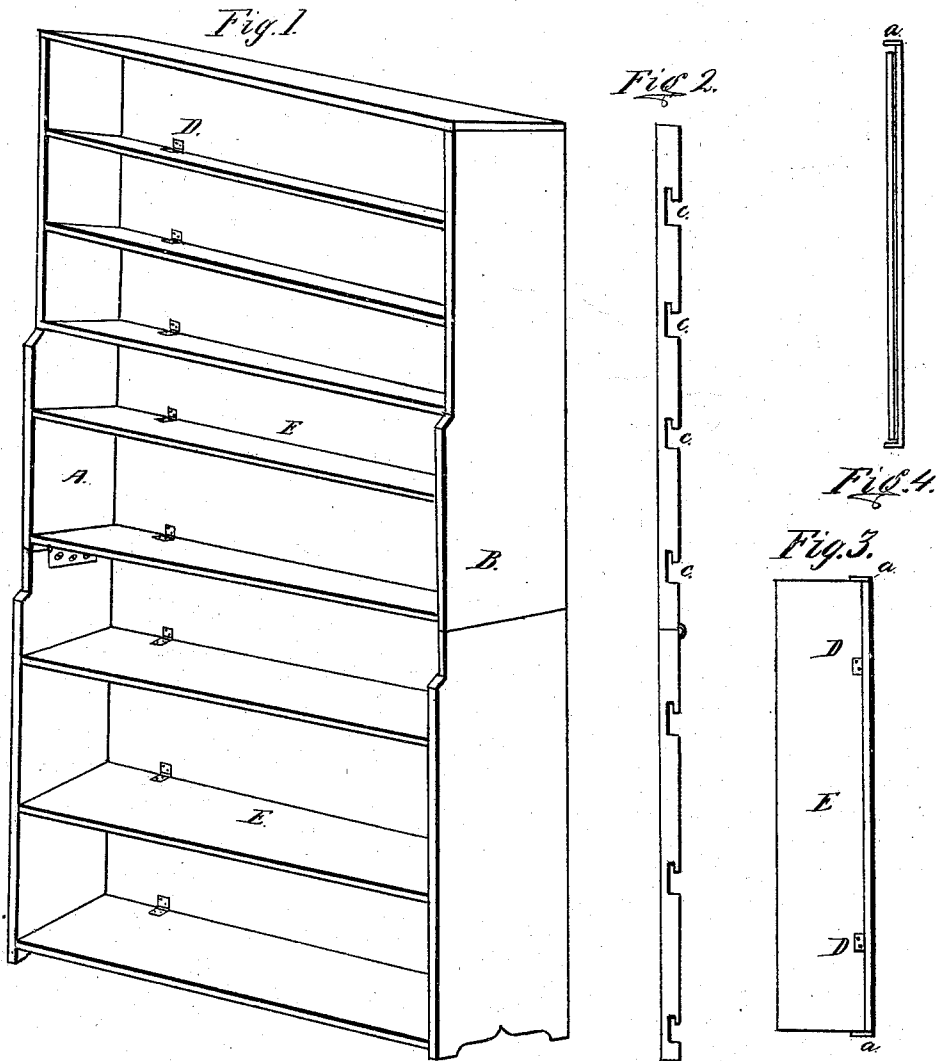


E. HASKELL.
Folding Book-Cases.

No. 138,022.

Patented April 22, 1873.



Witnesses.

John H. White
Chas W. Bartlett

Inventor.

Ezra Haskell

UNITED STATES PATENT OFFICE.

EZRA HASKELL, OF DOVER, NEW HAMPSHIRE.

IMPROVEMENT IN FOLDING BOOK-CASES.

Specification forming part of Letters Patent No. **138,022**, dated April 22, 1873; application filed September 4, 1872.

To all whom it may concern:

Be it known that I, EZRA HASKELL, of Dover, in the county of Strafford and State of New Hampshire, have invented certain Improvements in Folding Book-Cases, of which the following is a full, exact, and clear description:

Figure 1 is a perspective view of the book-case. Fig. 2 is a front-edge view of one of the sides. Fig. 3 is a view of one of the shelves with back attached by hinges. Fig. 4 is a view of the shelf and back folded together.

The object of my improvement is to render the book-case more portable, and, at the same time, less liable to sustain injury. It is exceedingly desirable that a book-case be so constructed that it can quickly be taken apart and put into a small compass for transportation, and as quickly set up again, and all without injury to the book-case, though the operation be often repeated.

That others skilled in the art may understand and use my invention, I will proceed to describe the manner in which I have carried it out.

In the perspective view, Fig. 1, the sides A and B are cut in two at the middle of their length, and hinged on the inside to admit folding together when the shelves are removed, as in the case of packing. These sides have a compound groove in them, as seen in Fig. 2, C C. This compound groove consists of a plain square groove with a smaller groove cut in its upper half. Ordinarily it is simply a

saw-scarf. This is to admit a projecting iron band, *a*, fastened to the end of the shelf to hold it in place instead of a dovetail, which is liable to shrink and let the case fall apart. The shelves E are made of plain boards, with a piece of band-iron, one-quarter inch wider than the shelf is thick, attached to its ends by screws. This shelf has its back attached to it by hinges, as seen in Figs. 1 and 3, D D. When the shelf is in place the back is held in position by the hinges. When the book-case is taken down for removal or shipment the shelf and back are folded together, as seen in Fig. 4. The upright sides, also, being folded, the whole can be put in a box of small dimensions and transported, at the pleasure of the owner, without damage. A full-size book-case, seven and a half feet high and four feet wide, can be packed by this arrangement into a box but four feet long and fourteen by sixteen inches square.

Claim.

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

The combination of the upright folding sides A B and grooves C with the shelves and backs E having the projections *a*, as and for the purpose specified.

The above specification of my invention signed by me this 27th day of August, 1872.

EZRA HASKELL.

Witnesses:

JOHN H. WHITE,
CHAS. W. BARTLETT.