

F. F. HILL,
Suspension Book Rack.

No. 167,246.

Patented Aug. 31, 1875.

Fig. 1

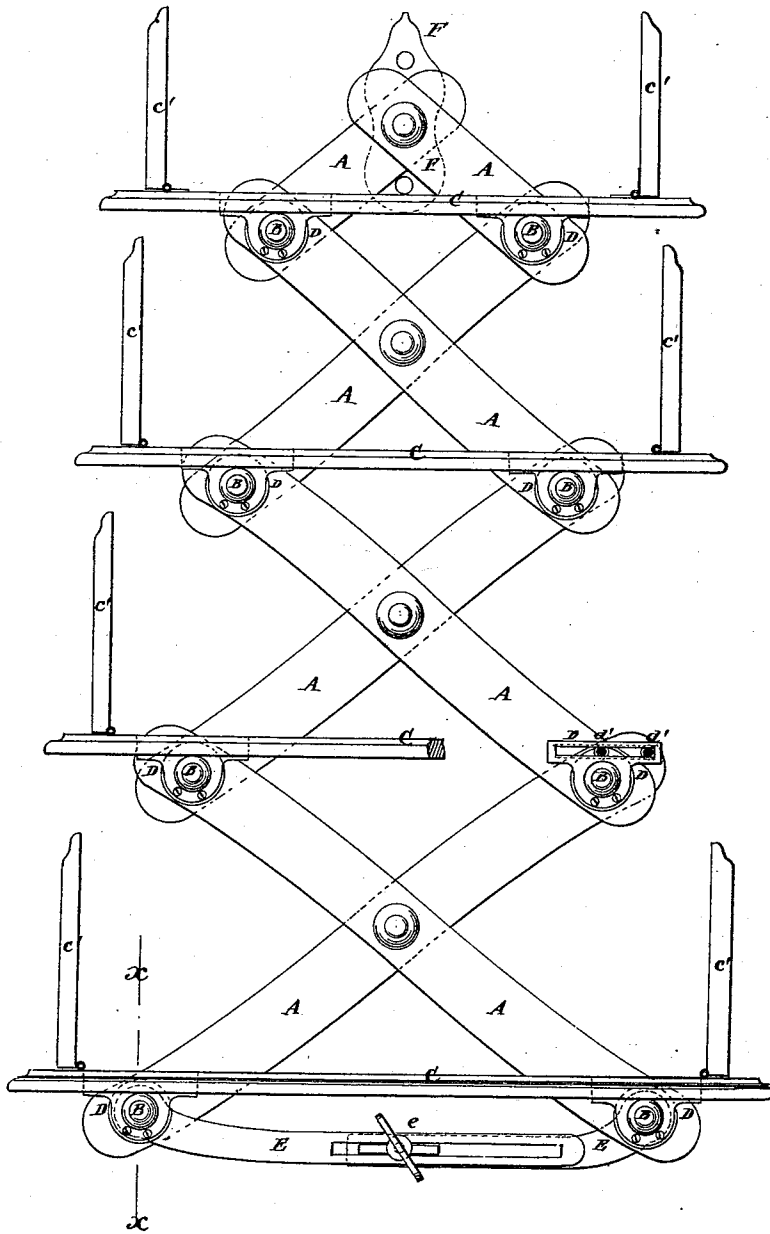
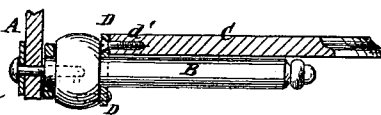


Fig. 2

WITNESSES:
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UNITED STATES PATENT OFFICE.

FREDERICK F. HILL, OF ESSEX, CONNECTICUT.

IMPROVEMENT IN SUSPENSION BOOK-RACKS.

Specification forming part of Letters Patent No. **167,246**, dated August 31, 1875; application filed May 8, 1875.

To all whom it may concern:

Be it known that I, FREDERICK F. HILL, of Essex, in the county of Middlesex and State of Connecticut, have invented a new and useful Improvement in Folding Suspension-Racks for Books and Ornaments, of which the following is a specification:

Figure 1 is a front view of my improved folding rack, part being broken away to show the construction. Fig. 2 is a detail section taken through the line *xx*, Fig. 1.

Similar letters of reference indicate corresponding parts.

The object of this invention is to furnish an improved folding rack for books and ornaments, to be hung against a wall, and which shall be so constructed that the shelves may be adjusted and secured at any desired distance apart.

The invention consists in the combination of the slotted plates and their screws with the shelves, the pegs, and the pivoted bars of the rack; in the combination of the lock-bars and their hand-screw with the pegs, the pivoted bars, and the shelves of the rack; in the combination of the hinged ends with the shelves, the pegs, and the pivoted bars; and in the combination, with the upper pivoted bars, of a plate having holes in its upper and lower ends to receive the suspending nails or screws, and so arranged that the nail or screw passing through the lower hole may project into the angle between the said bars, as hereinafter fully described.

A are a number of bars pivoted to each other at the centers and ends in the manner of a lazy-tongs. The end pivots B of the bars A are extended to serve as pegs, or have pegs attached to them, to support the shelves C. The pegs B are made with a swell at the front of the bars A to prevent the shelves C from being pushed back against the said bars A. D are small plates, which have holes in their lower parts to receive the pegs B, and which are secured to the swell of said pegs by screws or nails. The upper part of the plates D are widened to extend along the rear edges of the shelves C, and are slotted transversely to receive two small screws, *d'*, which are screwed into the rear edge of the shelves C, to keep the said shelves in place upon the pegs B, and to keep the said pegs from turning. To the lowest pegs B are pivoted the outer ends of two bars, E, the inner parts of which overlap

each other. One of the bars, E, is slotted longitudinally, and the other has a short longitudinal feather formed upon it to enter the said slot, and thus keep the said bars in line with each other. The bars E are locked together, when adjusted, by a hand-screw, *e*. The bars E and hand-screw *e* enable the shelves C to be adjusted and secured at any desired distance apart. To the upper sides of the ends of the shelves C are hinged ends *e'*, which may be turned up into a vertical position, as shown in Fig. 1, or turned down to lie upon the upper sides of the said shelves C, as may be desired, reference being had to the kind of articles to be placed upon the shelves. To the upper ends of the upper bars A is pivoted a plate, F, which has two holes formed in it, one in each end, to receive the nails or screws by which the rack is suspended from the wall, the lower hole being in such a position that the lower nail or screw may project into the angle between the said bars A, to keep the rack from turning or swinging to one side, should one side be loaded more heavily than the other.

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

1. The metal plates D, having slots in the upper portion, in combination with the pegs B, shelves C, and pivoted bars A, said plates being secured to the shelves by the screws on which they slide, as shown and described.
2. The combination of the lock-bars E and hand-screw *e'* with the pegs B, the pivoted bars A, and the shelves C, substantially as herein shown and described.
3. The combination of the hinged ends *e'* with the shelves C, the pegs B, and the pivoted bars A, substantially as herein shown and described.
4. The combination, with the upper pivoted bars A, of a plate, F, pivoted to the rear bar, and having holes in its upper and lower ends to receive the suspending nails or screws, so that the nail or screw passing through the lower hole may project into the angle between the said bars A, substantially as herein shown and described.

FREDERICK F. HILL.

Witnesses:

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