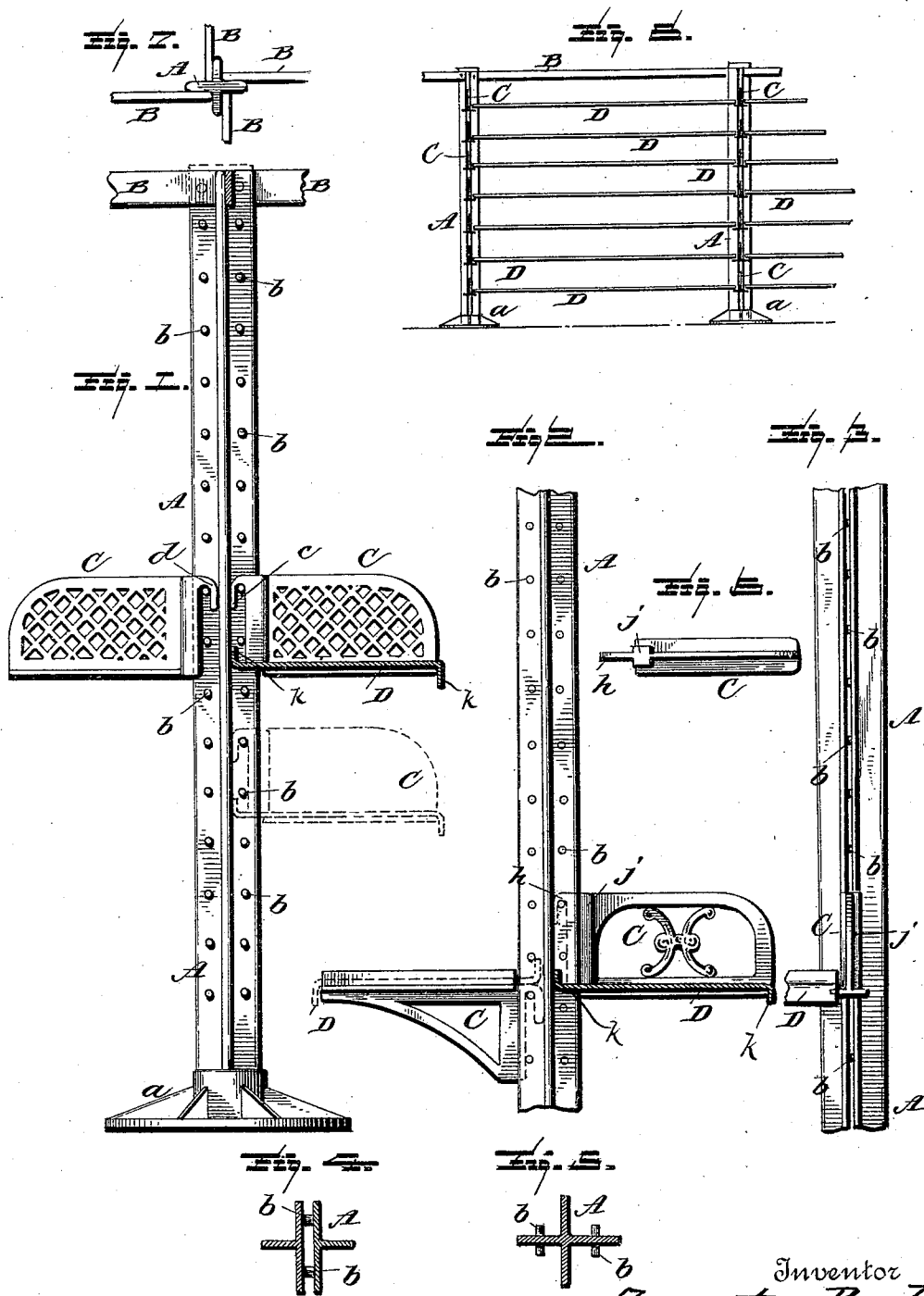


(No Model.)

A. PAULI.  
BOOK RACK.

No. 443,866.

Patented Dec. 30, 1890.



Witnesses  
L. C. Hills  
E. H. Bond.

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per  
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# UNITED STATES PATENT OFFICE.

AUGUSTUS PAULI, OF BROOKLYN, NEW YORK.

## BOOK-RACK.

SPECIFICATION forming part of Letters Patent No. 443,866, dated December 30, 1890.

Application filed October 7, 1890. Serial No. 367,331. (No model.)

*To all whom it may concern:*

Be it known that I, AUGUSTUS PAULI, a citizen of the United States, residing at Brooklyn, in the county of Kings and State of New York, have invented certain new and useful Improvements in Book-Racks; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters of reference marked thereon.

This invention relates to certain new and useful improvements in book-racks; and it has for its object, among others, to provide a simple, strong, cheap, and durable book-rack, whereby the distance between the shelves may be readily changed and wherein the parts shall be simple, few in number, and those easily manipulated to accomplish the desired end.

Other objects and advantages of the invention will hereinafter appear, and the novel features thereof will be specifically defined by the appended claim.

The invention is clearly illustrated in the accompanying drawings, which, with the letters of reference marked thereon, form a part of this specification, and in which—

Figure 1 is a side elevation of one of the posts or standards, showing two of the brackets thereon and a portion of the top braces. Fig. 2 is a similar view of another form of post or standard. Fig. 3 is a front elevation of a portion of the post. Fig. 4 is a transverse section through the post of Fig. 2. Fig. 5 is a similar section through the post of Fig. 1. Fig. 6 is a plan of one of the brackets shown in Fig. 2. Fig. 7 is a plan of one of the posts or standards, showing the manner of connecting the top braces thereto. Fig. 8 is a front view of a portion or section of the rack complete ready for use.

Like letters of reference indicate like parts throughout the several views.

Referring now to the details of the drawings by letter, A designates a post or standard provided with a suitable base *a*, as seen in Figs. 1 and 8, or it may be without a base and secured in position by any suitable means. The form of this post in cross-section may be varied. I have shown two forms; but these are but few of the many which I

have devised. These standards or posts are to be set in rows of two or more the length of the shelf apart and braced at the top and bottom of the same or at the top only by brace rods or ties.

In the form of post shown in Fig. 1 it has a cross-section somewhat like a cross, and when this form is employed I brace the posts by means of the braces B, arranged as shown in Fig. 7—that is, at right angles to each other—when the posts are arranged so that the shelves shall extend in directions at right angles to each other. This forms a strong brace and one easily secured in position.

The post shown in Figs. 1, 5, and 7 is provided with pins or projections *b*, which are designed to be engaged by the lugs on the brackets hereinafter described.

In the form shown in Figs. 2, 3, and 4 the pins are arranged between the separated parallel portions of the post, as seen best at Fig. 4. Two or more of these posts or standards may be arranged in tiers, one over the other, and they may be polished, galvanized, painted, stained, or otherwise ornamented, as preferred.

C is the bracket, which may be of wrought or cast metal, with one or more hooks or lugs *c* to fit over or between the sections of the posts or to fit between the separated parallel portions, as seen in Fig. 3, when that form of post is employed. When the form shown in Figs. 1 and 5 is used, the hooks engage the pins, as seen in Fig. 1. The brackets may be formed so as to rest level or inclined, so that the shelves will be either level or inclined, as desired. They may be formed so that the shelves will rest on the top thereof or to rest on projections along the bottom of the brackets. The brackets are, like the posts, to be painted, stained, galvanized, or otherwise ornamented, as preferred.

In Fig. 1, at the left, the bracket is shown as formed with a hook *d* simply to engage over a pin on the post, while at the right-hand side the bracket is shown as having the shelf affixed in position, the latter having an up-turned lip at the rear side to engage a rib or portion of the post. In this figure the shelf is supported on lugs at the bottom of the bracket. In Fig. 2, at the left-hand side, it is shown as supported upon the top of the

bracket. Both of these forms may be employed in the one set of racks, if desired.

In the form shown in Figs. 3 and 6 the bracket is formed with a central hook or lug 5 *h*, which engages a pin between the separated parallel portions of the post and has a shoulder *j*, which bears against the ribs or separated portions of the post to steady the bracket.

The shelf D is formed, preferably, of sheet 10 metal, provided at the rear and front edge with a portion *k*, turned at substantially a right angle to the body of the shelf, as shown in Figs. 1 and 2. The shelves may be painted, stained, galvanized, or otherwise ornamented 15 as desired. The inner upturned lip of the shelf bears against the rib of the post and keeps the shelf steady, as will be readily understood from Figs. 1 and 2.

If desired, the standards may be used to 20 carry the floors as well as the brackets and shelves, and the sections can be reduced in

size from the bottom tier to the top one, thus insuring economy with proportional strength.

What I claim as new is—

The combination, with the posts formed 25 with vertical ribs and provided with laterally-projecting pins, of the detachable metal brackets having hooks to detachably engage the pins and lugs to support the shelves, and the shelves having right-angled portions at 30 opposite edges extending in opposite directions and supported on the brackets, with the inner right-angled portions engaging the rib of the post, substantially as specified.

In testimony that I claim the above I have 35 hereunto subscribed my name in the presence of two witnesses.

AUGUSTUS PAULI.

Witnesses:

THOS. J. MAGUIRE,  
DANIEL J. QUIGG.