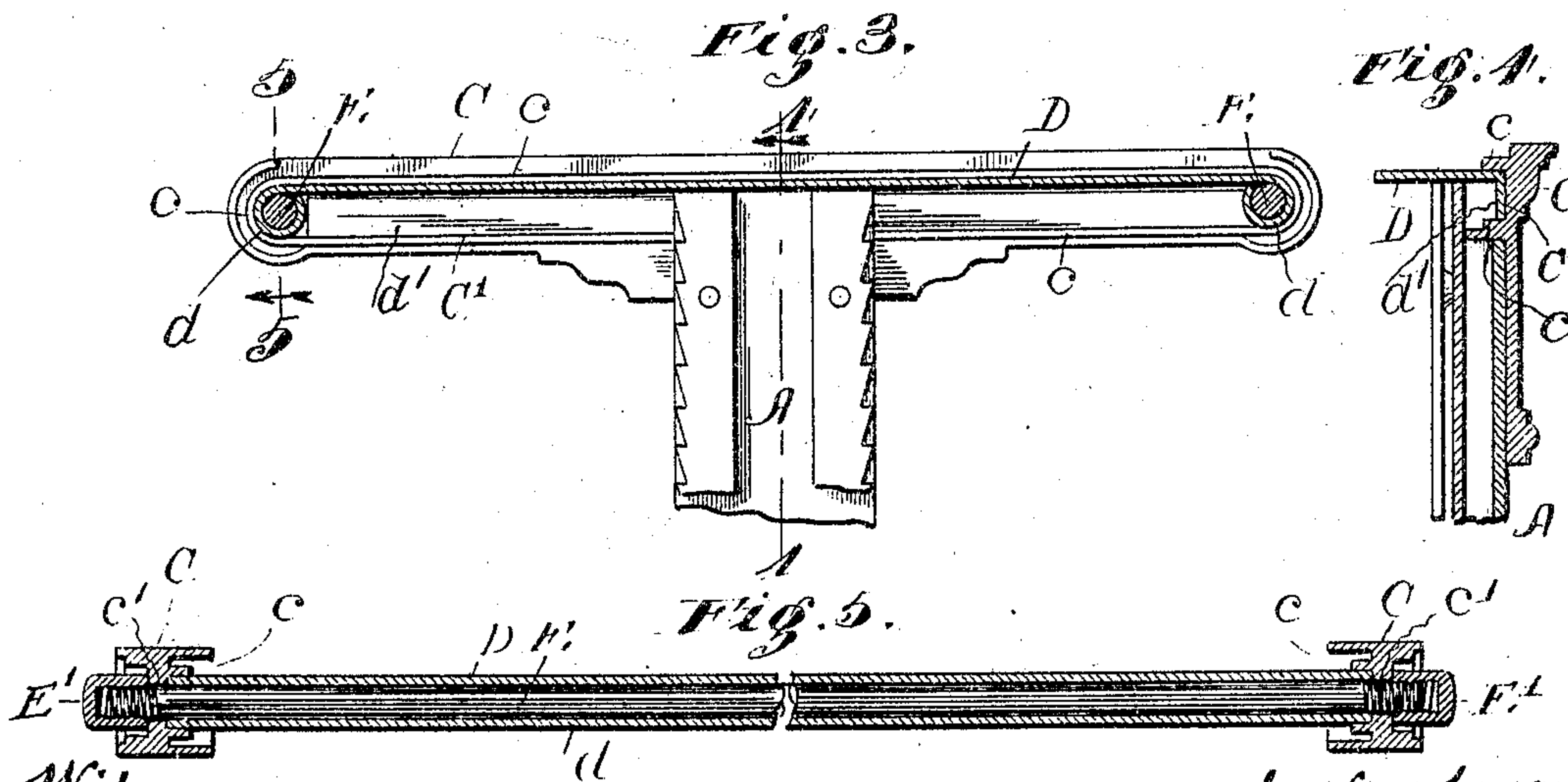
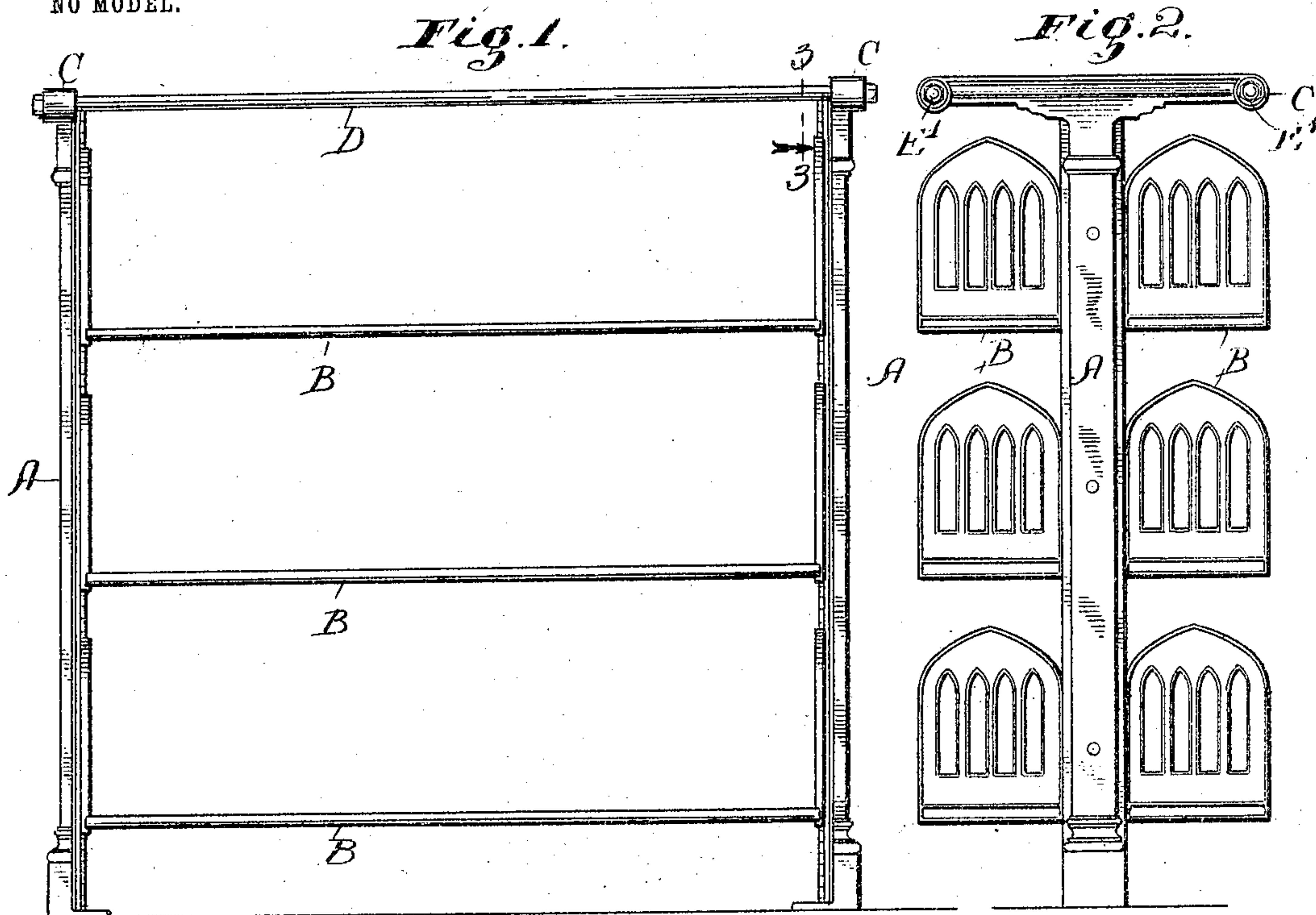


No. 775,497.

PATENTED NOV. 22, 1904.

N. B. PARSONS.
STACK CONSTRUCTION.
APPLICATION FILED MAR. 21, 1904.

NO MODEL.



Witnesses:

Chas. O. Sturvey
Russell Miles.

Inventor:

Novell B. Parsons
by H. B. Bitter.

Att'y.

UNITED STATES PATENT OFFICE.

NEWELL B. PARSONS, OF CHICAGO, ILLINOIS, ASSIGNOR TO LIBRARY BUREAU, OF CHICAGO, ILLINOIS, A CORPORATION OF ILLINOIS.

STACK CONSTRUCTION.

SPECIFICATION forming part of Letters Patent No. 775,497, dated November 22, 1904.

Application filed March 21, 1904. Serial No. 199,262. (No model.)

To all whom it may concern:

Be it known that I, NEWELL B. PARSONS, a citizen of the United States of America, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Stack Construction, of which the following is a specification.

My invention relates to certain new and useful improvements in stack construction; and its object is to produce a device of this class which shall have certain advantages which will appear more fully and at large in the course of this specification.

To this end my invention consists in certain novel features of construction, which are clearly illustrated in the accompanying drawings and described in this specification.

In the aforesaid drawings, Figure 1 is a front elevation of a library-stack embodying my invention. Fig. 2 is an end view thereof. Fig. 3 is a section in the line 3 3 of Fig. 1 looking in the direction of the arrow. Fig. 4 is a section in the line 4 4 of Fig. 3 looking in the direction of the arrow, and Fig. 5 is a section in the line 5 5 of Fig. 3 looking in the direction of the arrow.

Referring to the drawings, which show the preferred combination, A A are suitable vertical supporting-posts at the two ends of the stack, these posts bearing shelves B. The construction of the posts and shelves is not at all material to my invention. The form which happens to be here illustrated is that fully described and explained in the joint application of myself, William H. Winslow, and Jackson L. Kail, filed on even date herewith and allotted Serial No. 199,272. At the top of each support A is secured a bracket C. Each bracket C, it will be noted, spreads out from the top of the post toward the front and rear of the stack, the particular form illustrated being designed to give a satisfactory appearance to the device rather than for any mechanical effect. The brackets are secured to the top of the posts A, and their upper ends extend substantially across the width of the stack, the inside of each bracket having a channel C', which is rounded at the ends, the rib or flange which incloses this channel being indicated in the drawings by c. A shelf

D is supported by the brackets C. This shelf is preferably made of a single piece of sheet metal, the longitudinal edges of which are bent around to form cylindrical beads d, which give rigidity to the shelf and also give it a finished appearance. The edges upon the ends of the shelf are bent down to form flanges d', which rest upon the lower ribs or flanges c of the brackets C.

Through each of the beads d extends a rod E, the ends of which pass through suitable perforations c' in the brackets C. The rods E are screw-threaded at the ends and are held in place by ornamental nuts E'.

It will be seen that by this construction a shelf is provided of substantially the width of the stack, which not only gives extra shelf room for any purpose, but which protects the books in the stack from dirt which might otherwise fall upon them. The fact that the rods E connect the ends of the brackets braces the stack very firmly and prevents any twisting of the vertical supporting-posts.

I realize that considerable variation is possible in the details of this construction without departing from the spirit of the invention, and I therefore do not intend to limit myself to the specific form herein shown and described.

I claim as new and desire to secure by Letters Patent—

1. In a device of the class described, the combination with suitable vertical supporting-posts, brackets secured to the tops of the posts and extending therefrom substantially to the front and rear of the structure, channels on the inner faces of said brackets, and a suitable shelf supported by said channels.

2. In a device of the class described, the combination with suitable vertical supporting-posts, brackets secured to the tops of the posts and extending therefrom substantially to the front and rear of the structure, channels on the inner faces of said brackets, and a sheet-metal shelf having cylindrical beads along its edges supported by said channels.

3. In a device of the class described, the combination with suitable vertical supporting-posts, of suitable brackets secured to the upper ends thereof and extending substantially

to the front and rear of the structure, channels having rounded ends on the inner faces of said brackets, and a sheet-metal shelf having cylindrical beads along its edges supported 5 by said channels.

4. In a device of the class described, the combination with suitable supporting-posts, of suitable brackets secured to the tops of the posts, a sheet-metal shelf having cylindrical 10 beads along its longitudinal edges, and suitable rods extending through the ends of the brackets and the cylindrical beads.

5. In a device of the class described, the combination with suitable supporting-posts, 15 of brackets secured to the upper ends thereof and extending to the front and rear of the

structure, channels rounded at the ends on the inner faces of said brackets, a shelf having a cylindrical bead along each longitudinal edge supported at its ends by said channels, 20 and suitable rods extending through the ends of the brackets and the cylindrical beads on the shelf and operating to brace the brackets and support the edges of the shelf.

In witness whereof I have signed the above 25 application for Letters Patent, at Chicago, in the county of Cook and State of Illinois, this 25th day of February, A. D. 1904.

NEWELL B. PARSONS.

Witnesses:

RUSSELL WILES,

CHAS. O. SHERVEY.