

(No Model.)

H. M. HART.
SHELF SUPPORT.

No. 471,481.

Patented Mar. 22, 1892.

Fig. 1

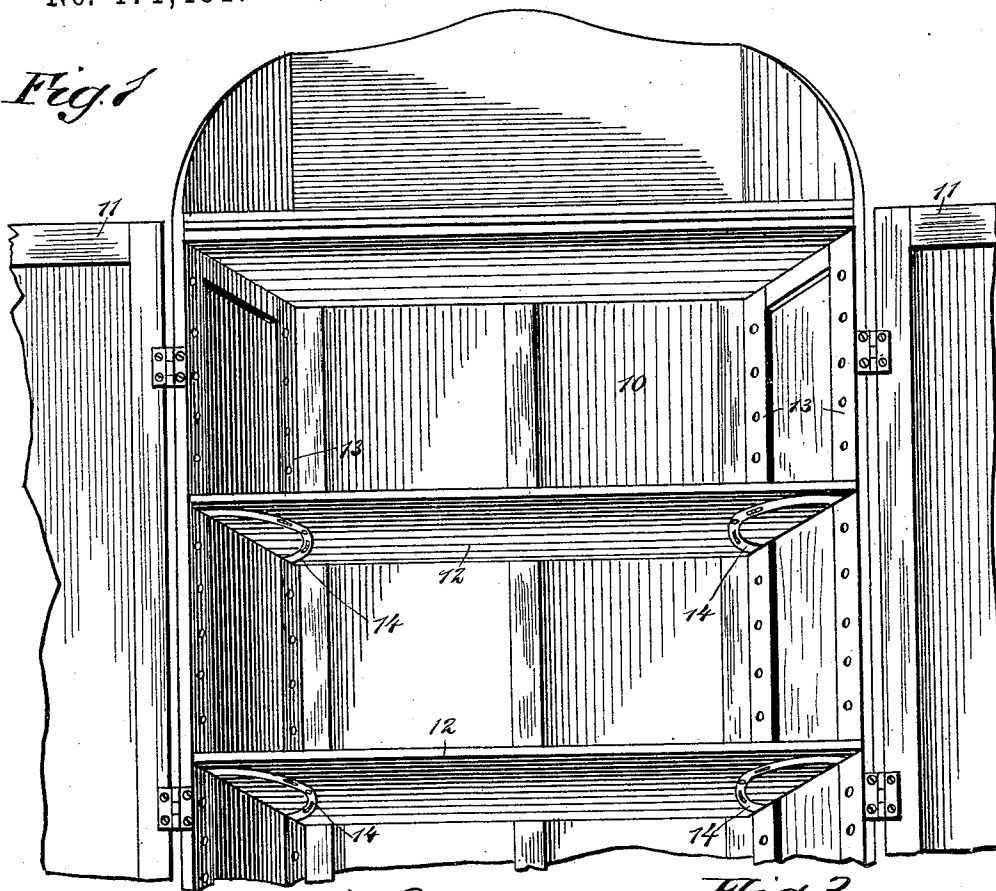


Fig. 2

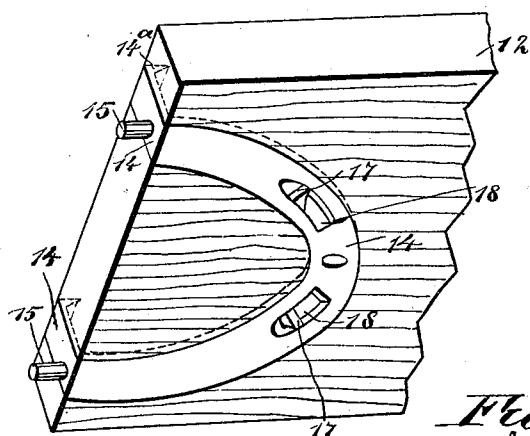


Fig. 3

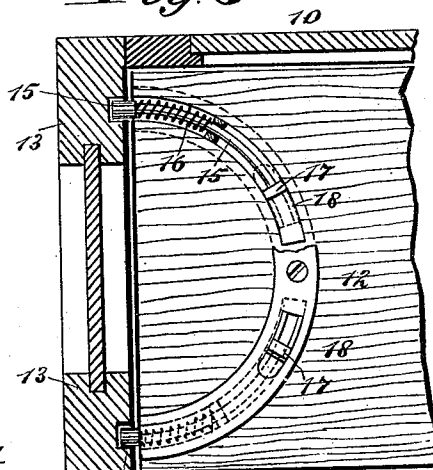
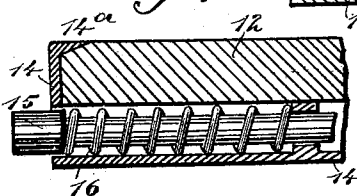


Fig. 4



WITNESSES:

J. McAuley.
W. Sedgwick

INVENTOR:

H. M. Hart
BY *Munn & Co.*
ATTORNEYS

UNITED STATES PATENT OFFICE.

HENRY M. HART, OF AUBURN, ILLINOIS.

SHELF-SUPPORT.

SPECIFICATION forming part of Letters Patent No. 471,481, dated March 22, 1892.

Application filed June 11, 1891. Serial No. 395,963. (No model.)

To all whom it may concern:

Be it known that I, HENRY M. HART, of Auburn, in the county of Sangamon and State of Illinois, have invented a new and Improved Shelf-Support, of which the following is a full, clear, and exact description.

My invention relates to improvements in shelf-supports; and the object of my invention is to produce a simple and reliable shelf-support which is especially adapted for supporting the shelves of book-cases, but which may be used to advantage on any shelf and which may be easily manipulated and arranged to hold the shelf at any desired height.

To this end my invention consists in a shelf-support constructed substantially as hereinafter described and claimed.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar letters of reference indicate corresponding parts in all the views.

Figure 1 is a broken front view of an open book-case provided with shelves having my improved support secured to them. Fig. 2 is a broken enlarged perspective view of a shelf fitted within the support. Fig. 3 is a broken inverted plan, partly in section, showing the connection between the support and the adjacent wall of the case; and Fig. 4 is a broken detail sectional view showing the manner in which the bolt-case is secured to the shelf and the bolt pressed out of the case.

The book-case 10 is of common form, having swinging doors 11 in front, and it is provided with the usual tier of shelves 12, arranged one above another, and the corner-pieces 13 on the end walls of the book-case are perforated, as shown in Fig. 1.

On each end of each shelf the support is fixed, which support is provided with a main semicircular case 14, which is formed of a plate of metal bent or cut to the desired shape, and this case is inlaid in the shelf and doubled over upon the end of the shelf, the extreme ends of the case being folded upon the top of the shelf, as best shown at 14^a in Fig. 4. This causes the case 14 to be held firmly in place, and by having the body and ends of the case 14 inlaid upon the shelf it will not interfere

with the free movement of the latter. In each end portion of the bolt-case 14 is a curved bolt 15, the outer end of which is enlarged, and these bolts are pressed by springs 16 so that they will normally project beyond the ends of the shelf, as best shown in Figs. 3 and 4. To the inner ends of the sliding bolts 15 are attached flush buttons 17, which buttons project through elongated slots 18 in the inner portion of the case 14, and these buttons are arranged so that both may be conveniently grasped by one hand. It will thus be seen that by pressing them together the bolts will be drawn into the case, so that they will not project beyond the end of the shelf. The springs 16 cause the bolts to normally project from the ends of the shelves, and as the bolts register with the perforations in the corner-boards 13 of the case they will enter the said perforations and will form a secure support for the shelf.

It will be seen that any shelf may be quickly and easily moved to bring it to a desired height in the case, and this may be done even if the shelf is loaded, as one end of the shelf may be raised at a time, and when the shelf is raised one merely has to release the bolts, as they will automatically engage the next holes above or below them when they are brought opposite the holes.

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

A shelf-support comprising the semicircular plate 14, having curved slots 18 adjacent to and at opposite sides of its center, the ends of the plate being bent at right angles and provided with bolt-apertures, and the apertured guide-lugs on the inner side of the plate, and the curved spring-pressed bolts 15 15, mounted in said lugs and apertured ends and provided at their inner adjacent ends with finger buttons or pieces projecting through said slots to be grasped by one hand, substantially as shown and described.

HENRY M. HART.

Witnesses:

HENRY DAWSON, Jr.,
OSCAR N. BEASLEY.