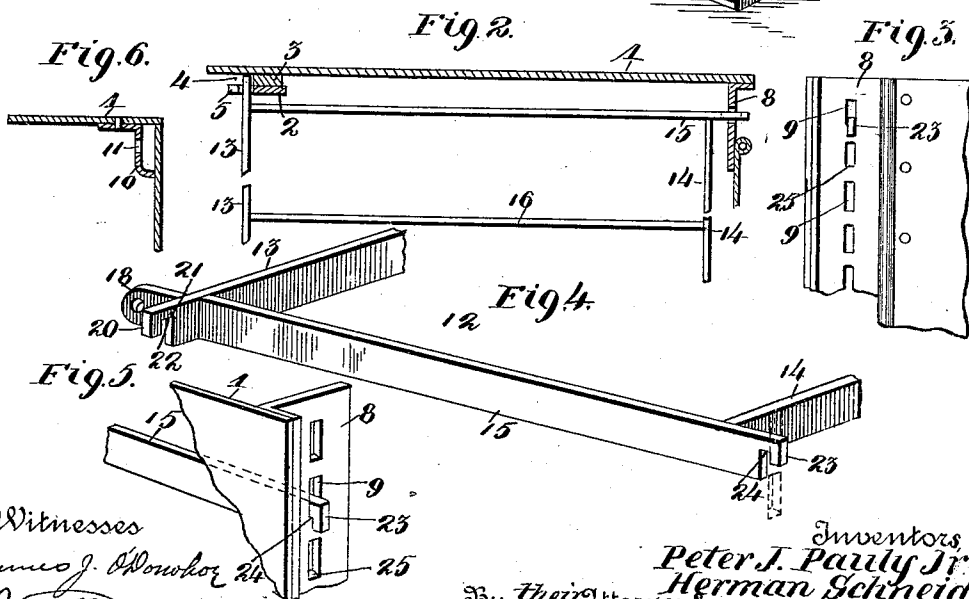
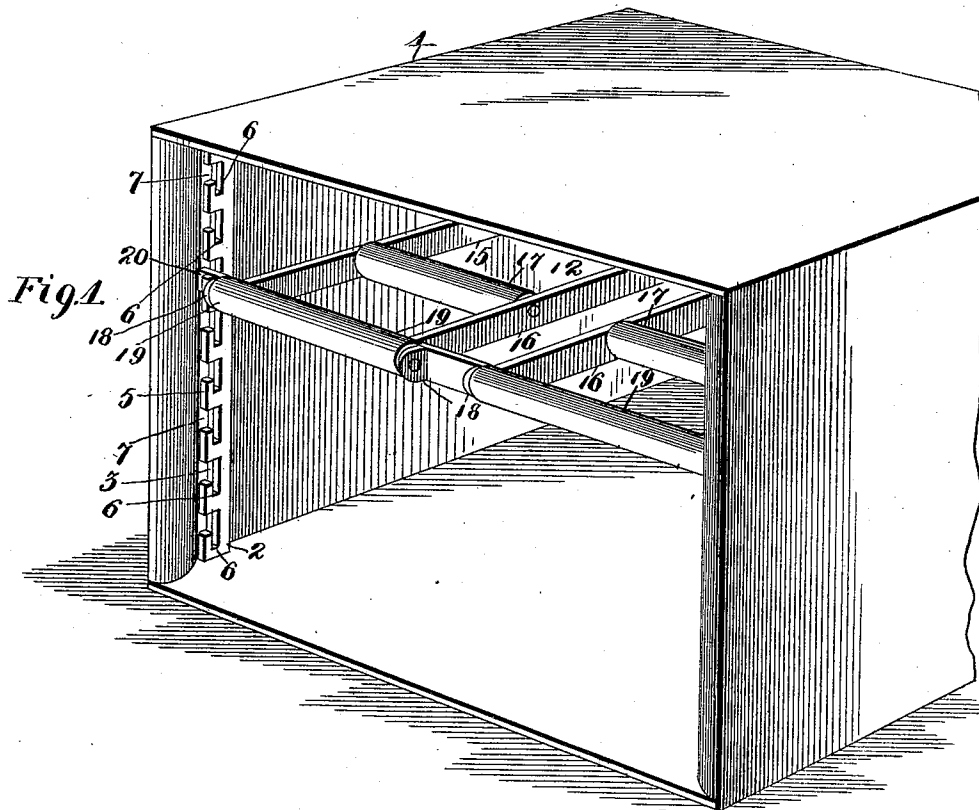


(No Model.)

P. J. PAULY, Jr. & H. SCHNEIDER.
ADJUSTABLE SHELVING.

No. 515,163.

Patented Feb. 20, 1894.



Witnesses
James J. O'Donoghue
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By their Attorneys,
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UNITED STATES PATENT OFFICE.

PETER J. PAULY, JR., AND HERMAN SCHNEIDER, OF ST. LOUIS, MISSOURI,
ASSIGNORS TO THE ST. LOUIS ART METAL COMPANY, OF SAME PLACE.

ADJUSTABLE SHELVING.

SPECIFICATION forming part of Letters Patent No. 515,163, dated February 20, 1894.

Application filed June 2, 1893. Serial No. 476,393. (No model.)

To all whom it may concern:

Be it known that we, PETER J. PAULY, JR., and HERMAN SCHNEIDER, of the city of St. Louis, State of Missouri, have jointly invented certain new and useful Improvements in Adjustable Shelving, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming a part thereof.

Our invention has relation to adjustable shelving and consists in the novel arrangement and combination of parts more particularly set forth in the specification and pointed out in the claims.

In the drawings Figure 1 is a perspective view of a case embodying our invention. Fig. 2 is a horizontal longitudinal section of the same with parts broken away. Fig. 3 is a plan view of the rear wall of the casing with parts broken away. Fig. 4 is a perspective view of one end of the shelf. Fig. 5 is a perspective view of the rear and one side wall of the casing and a portion of the shelf supported thereby with parts broken away; and Fig. 6 is a horizontal section in detail showing a portion of the side and rear wall of the casing and representing a modification of our invention.

The invention is intended principally for books but can be constructed for other purposes where adjustable shelving is desired without departing from the nature of the invention.

It consists of a suitable casing having hooked plates or supports secured to the inner surface of the side walls of the same, openings formed in the back wall of the casing and in a vertical plane, or formed in an additional plate which is secured within the casing, a shelf or shelves provided either with or without rollers and having oppositely projecting hooked ends which hooks are adapted to be received by the said hooked plates, and additional hooks on said shelves projecting in the same direction and adapted to be received by the openings located at the rear portion of the casing whereby the said shelves are adjustably secured within the same.

Referring to the drawings, 1 represents a casing which is preferably made of sheet metal and suitably ornamented in design. To the

opposite side walls of the casing and adjacent to the front of the same are secured hooked plates or supports 2, a strip of metal 3 being interposed between said plates and the inner surface of the side wall of the casing whereby a space 4 is left between the plates and the side of the casing for the purpose herein-after described. The hooks 5 of the hooked plates are all similarly constructed and consist of a series of right angular projections providing bearing surfaces 6 and spaces 7 for the insertion of the hooked ends of the shelf. Formed in the rear wall 8 of the casing and in a vertical plane are a series of elongated openings 9 the number of which correspond to that of the hooks 5 formed on the plates 2, and are adapted to support the opposite ends of the shelves. In Fig. 6 we have shown a modification of this construction by dispensing with the elongated openings 9 formed in the rear wall of the casing and in lieu thereof we employ an additional plate 10 suitably shaped and secured to the casing within the same. Formed in said plate are a series of similar openings 11 which are adapted to receive the hooks formed on the rear ends of the shelves in a similar manner. In the present case we have only shown one shelf but in practice any number may be used, the same being especially constructed for the purpose.

12 represents the adjustable shelf comprising two transverse strips or pieces 13, 14, and four longitudinal strips the outer ones of which are designated by the numeral 15 and the two intermediate or inner ones by the numeral 16. The strips 16 lead from the transverse strip 13 to the transverse piece 14, but the longitudinal strips 15 lead from the transverse strip 13 and are attached to the ends of the strip 14, but project a suitable distance therefrom. Between the strips 15 and 16 any number of rollers 17 may be journaled for guiding and supporting the book within the case. To the outer surface of the strip 13 are attached ears 18 between which are journaled two rollers 19 which perform the same function as the rollers previously referred to. The ends of the strip 13 of the shelf project a suitable distance beyond the

strips 15 and are provided with hooks 20, the metal 21 of the same being of such a width as to freely pass within the space 7 formed in the plates 2 and allow the bearing surfaces 22 to rest upon the bearing surfaces 6 of said plates, the space 4 between said plates and the side walls of the casing being such as to admit the remaining portion of the hooked ends as best shown in Fig. 2. As before stated the rear ends of the strips 15 project a suitable distance beyond the transverse strip 14 and formed on said projecting ends are hooks 23 which are received by the elongated openings 9 of the rear wall of the casing, or the openings 11 of the plate 10 as shown in the modification of Fig. 6. The hooks 23 thus constructed are provided with bearing surfaces 24 which are adapted to rest upon the lower terminations 25 of said elongated openings as best shown in Fig. 5.

When it is desired to insert the shelf within the casing the rear projecting hooks 23 are first inserted within the openings 9 or 11 after which the hooks 20 formed on the projecting ends of the transverse strip 13 are passed into the proper hooks of the plates 2. To release the said shelf from its locked position within the casing the same must necessarily be bodily elevated so that all the hooks will be disengaged at the same time after which the shelf is withdrawn from the casing in a horizontal direction.

By the construction before described the shelving cannot be dislocated when once arranged within the casing by being accidentally struck by a book or other object, and further, is very durable and will withstand the rough usage to which the same is necessarily subjected.

Having described our invention, what we claim is—

A case comprising plates 2, right angular projections 5 forming a part of the same and providing hooks, bearing surfaces 6 and spaces 7 formed by said right angular projections, elongated openings 9 formed in the rear wall of the casing, a shelf 12 composed of transverse pieces 13 and 14, and longitudinal pieces 15 and 16; hooks 20 formed on the projecting ends of the strip 13 and adapted to be received by the plates 2, hooks 23 formed on the projecting ends of the longitudinal strips 15 and adapted to be received by the said elongated openings, and strips 3 secured between the strips 2 and the side walls of the casing providing a space 4 for the passage of the hooks 20, substantially as set forth.

In testimony whereof we affix our signatures in the presence of two witnesses.

PETER J. PAULY, JR.
HERMAN SCHNEIDER.

Witnesses:

C. F. KELLER,
JAMES J. O'DONOHUE.