A. P. MASSEY.

Adjustable Shelf-Bracket.

No. 217,471. Patented July 15, 1879.

Fig. 1.

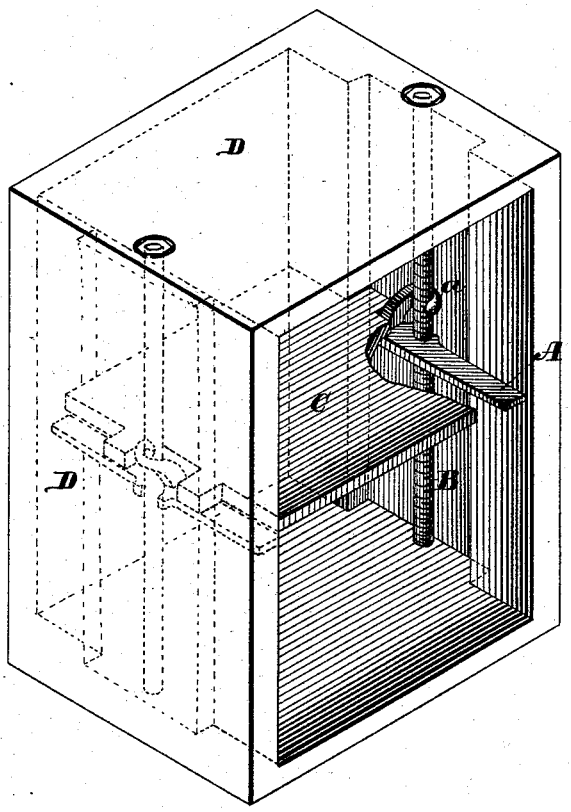


Fig. 2.

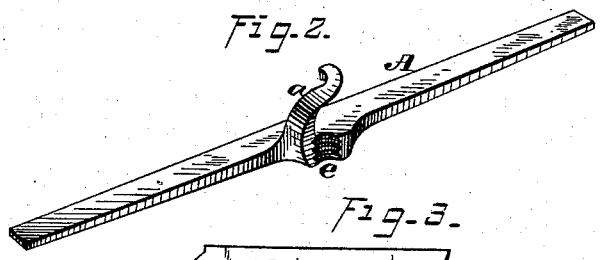
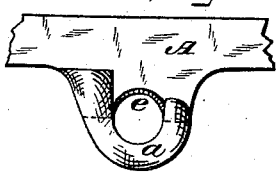


Fig. 3.



WITNESSES:

Jas. E. Hutchinson.

W. B. Hale

INVENTOR.

Albert P. Massey,

by J. J. Coombs,

Attorney.

N. PETERS, PHOTO-LITHOGRAPHER, WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

ALBERT P. MASSEY, OF CLEVELAND, OHIO.

IMPROVEMENT IN ADJUSTABLE SHELF-BRACKETS.

Specification forming part of Letters Patent No. **217,471**, dated July 15, 1879; application filed May 22, 1879.

To all whom it may concern:

Be it known that I, A. P. MASSEY, of Cleveland, in the county of Cuyahoga and State of Ohio, have invented certain Improvements in Adjustable Shelf-Brackets, of which the following is a specification.

The various methods of supporting shelves now in use involve either a fixed position of shelves, or an adjustability more or less awkward and laborious in practice, and capable of varying the distances between shelves only by considerable degrees.

The object of my invention is to furnish a method by which this distance may be conveniently and quickly graduated to any degree, and so securing what is found to be a desideratum—the greatest economy of space.

Figure 1 is a perspective side elevation of all the parts of my device in position. Fig. 2 is a perspective view of a shelf-bracket detached. Fig. 3 is a plan view of the same, with the ends broken away.

A is the part of the bracket on which the shelf rests in position. B is a vertical metallic rod, to which the bracket is attached in the manner hereinafter shown. C is a shelf, with part removed to show the operation of the device; and D is the general casing of the shelving.

The bracket shown in Fig. 2 is made of malleable iron or other suitable metal, having the rest A, the hook *a*, and the indenture *e*, the indenture and hook being made to fit and surround the rod B, and sufficient space being left between the point of the hook *a* and rest A to enable the rod B to pass between them. This bracket may be made in pairs, the one intended for one end of a shelf having its hook turned in one direction and the other having its hook turned in the opposite direction, as shown by the two brackets represented in the drawings.

It is obvious that when the bracket is placed in position with the rod, the shelf C resting on the part A, as shown in Fig. 1, the bracket takes hold of the rod by means of the described hook and indenture with a binding gripe, which holds the bracket securely in place at whatever elevation it is located, and that in order to adjust the bracket to any elevation it is only requisite to raise and turn the part A upward to so release the bracket that it will readily slide up or down the rod, as required.

The rod B and the corresponding indenture *e* are made, preferably, with roughened surfaces or screw-threads, as shown in the drawings, and the fitting of the rod into the hook and indenture should be closely adjusted, so as to prevent the shelf from tipping.

It will be apparent, also, that in the use of this device any shelf and brackets may be quickly removed, or additional ones interposed.

I claim as my invention—

1. The combination of the case D, rod B, shelf C, and bracket A, the latter provided with the hook *a* and indenture *e*, the indenture and hook being made to fit and embrace the rod, substantially as shown and described.

2. In combination with the rod B, the bracket A, with its hook *a* and indenture *e*, the indenture and hook being made to fit and embrace the rod, substantially as shown and described.

ALBERT P. MASSEY.

Witnesses:
JOHN COON,
FRANCIS J. WING.