

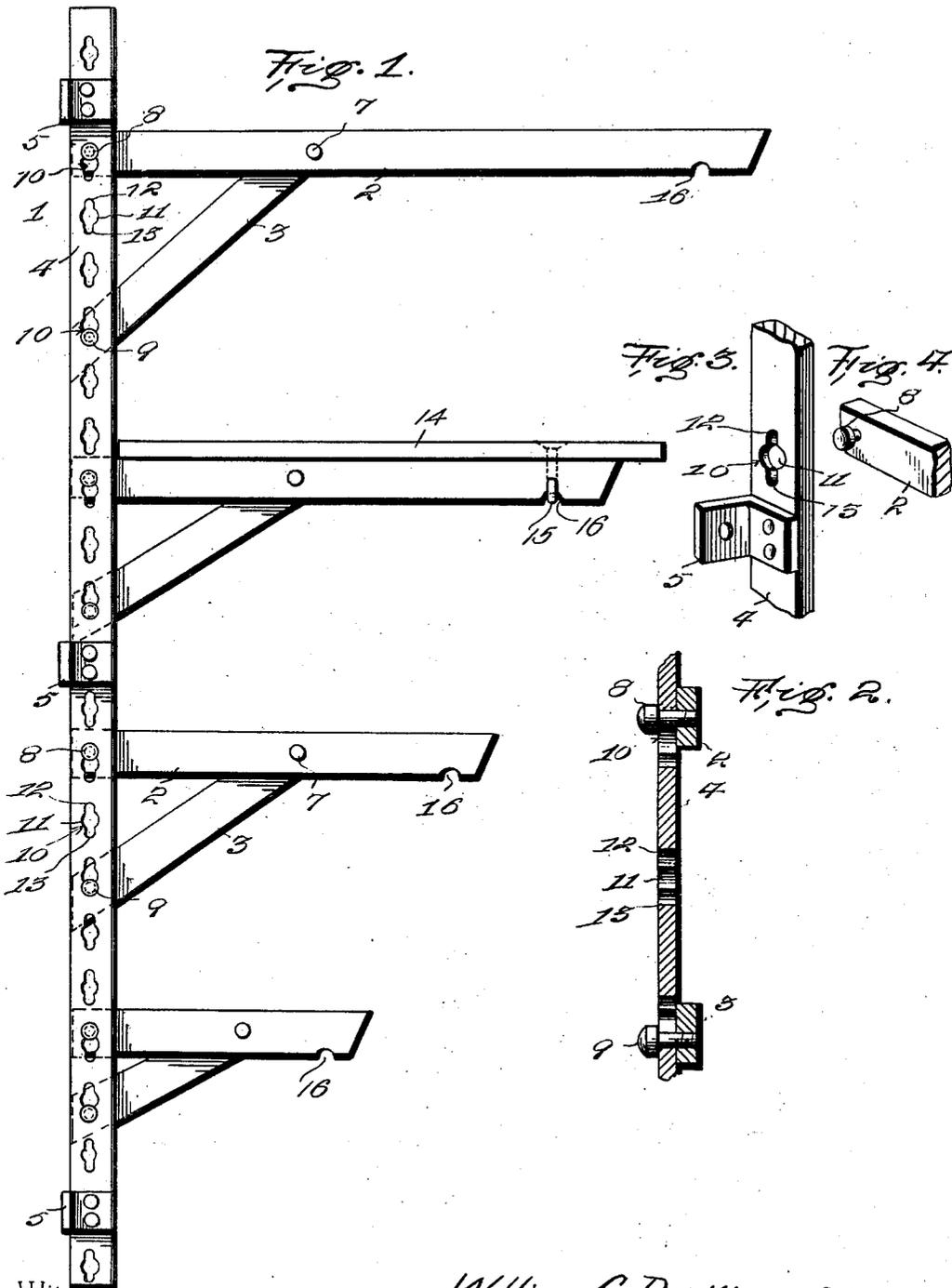
No. 701,079.

Patented May 27, 1902.

W. C. PECKHAM.
ADJUSTABLE SHELF BRACKET.

(Application filed Dec. 6, 1901.)

(No Model.)



Witnesses
C. M. Simpson
H. J. Riley

William C. Peckham Inventor
by C. A. Snowles
Attorneys

UNITED STATES PATENT OFFICE.

WILLIAM C. PECKHAM, OF TROY, OHIO.

ADJUSTABLE SHELF-BRACKET.

SPECIFICATION forming part of Letters Patent No. 701,079, dated May 27, 1902.

Application filed December 6, 1901. Serial No. 84,964. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM C. PECKHAM, a citizen of the United States, residing at Troy, in the county of Miami and State of Ohio, have invented a new and useful Adjustable Shelf-Bracket, of which the following is a specification.

The invention relates to improvements in adjustable shelf-brackets.

The object of the present invention is to improve the construction of adjustable shelf-brackets, more especially the manner of mounting the same detachably and of holding the brackets in such engagement and to provide a simple and comparatively inexpensive bracket which will possess great strength and durability and which will be held in engagement with the support by the weight of a shelf and the contents thereof.

The invention consists in the construction and novel combination and arrangement of parts hereinafter fully described, illustrated in the accompanying drawings, and pointed out in the claims hereto appended.

In the drawings, Figure 1 is an elevation of a series of adjustable shelf-brackets constructed in accordance with this invention. Fig. 2 is a detail vertical sectional view illustrating the manner of detachably connecting the bracket to the support. Fig. 3 is a detail view of a portion of the support, illustrating the construction of the apertures. Fig. 4 is a detail view illustrating the construction of the studs.

Like numerals of reference designate corresponding parts in all the figures of the drawings.

1 designates an adjustable bracket composed of a horizontal supporting bar or lever 2 and an inclined brace 3, forming a fulcrum for the lever or bar 2, which is detachably interlocked with a support 4, consisting of an upright bar. The upright bar, which is constructed of metal or other suitable material, is provided at intervals with knees 5, riveted or otherwise secured to the support and provided with one or more apertures 6 for the reception of nails, screws, or other suitable fastening devices for securing the support to a wall. The knees are L-shaped, as illustrated in Figs. 1 and 2; but they may be of any desired construction. The brace 3, which

is inclined, is pivoted at its upper end by a rivet 7 or other suitable fastening device to the horizontal bar or lever 2 at a point between the ends thereof, preferably near the center, or the point between the center and the support 4, and the inner ends of the bar 2 and the brace 3 are provided with studs 8 and 9. The studs 8 and 9, which are preferably fixed to the bar 2 and the brace 3, are provided with circular heads and are adapted to be passed through apertures 10 when arranged at the centers thereof. These apertures 10 preferably consist of central circular portions 11 and upper and lower contracted portions 12 and 13 of less width than the heads of the studs, which must be brought to the central portions of the apertures 10 to engage the bracket with the support and to disengage it therefrom. The stud 9 of the brace 3 is adapted to lie in the lower contracted portion 13 of an opening 10 when the bracket is in position for use, and the headed stud 8 of the inner end of the horizontal bar or lever 2 is received within the upper portion of another opening 10. In assembling the parts the studs are brought together slightly to bring their heads opposite the central circular portions of the openings, and after the heads of the studs have been passed through the openings the outer portion of the horizontal bar or lever 2 is forced downward, whereby the stud 8 at the inner end of the bar 2 will be carried into the upper portion of its opening and the stud 9 will be carried into the lower portion of its opening. In order to disengage the studs from the openings, the outer portion of the horizontal bar or lever must be raised slightly to bring the studs to the central portions of the openings, and it will be clear that the bracket cannot become accidentally disengaged from the support, as the horizontal bar or lever will be held against upward movement by the weight of a shelf 14 and its contents. The studs and the openings, by means of which the bracket is interlocked with the support, may be reversed, the studs being mounted on a support and the openings being formed in the bars or members of the bracket, and as this change is obvious illustration thereof is deemed unnecessary. Also, instead of providing openings 10 with contracted upper and lower portions to adapt any

opening to receive either the stud of the horizontal bar or the stud of the brace special openings may be provided for these studs, the lower contracted portion of the opening being omitted from the openings for the upper studs 8 and the upper contracted portions being omitted from the openings for the lower studs 9. Also, any other form of stud or analogous fastening device may be employed for detachably interlocking the bracket and support.

The shelf 14, which may be secured to the horizontal bar or lever of the bracket in any suitable manner, is preferably attached by means of a wire nail 15 or similar fastening device, which depends from the shelf at one side of the bar 2 and which has its lower portion bent laterally into engagement with a notch 16 of the bar 2. The notch 16 is formed in the lower edge of the bar 2, and in applying shelving to the brackets holes are bored through the shelves at one side of the brackets and the wire nails or other fastening devices are dropped through the shelves. The lower depending portions of the nails may then be readily bent around the lower edges of the bars 2, which are provided with the said notches to prevent the shelves from slipping outward. This construction also enables the shelves to be readily detached from the brackets when desired.

It will be seen that the adjustable shelf-bracket is exceedingly simple and inexpensive in construction, that it possesses great strength and durability, and that it is adapted to be readily adjusted to arrange the shelves at the desired elevation. It will also be apparent that the weight upon the bracket holds the latter in engagement with the support and prevents any accidental disengagement of the parts.

Various changes in the form, proportion, size, and the minor details of construction within the scope of the appended claims may be resorted to without departing from the spirit or sacrificing any of the advantages of this invention, such as arranging the horizontal bar or lever and the pivoted supporting-brace so that they will open and close any desired distance.

What I claim is—

1. A device of the class described comprising a support, a vertically-adjustable bracket composed of a horizontal bar or lever and an inclined brace pivotally connected at its upper end to the bar or lever at a point between

the ends thereof, and means for detachably interlocking the inner end of the bar or lever and the lower end of the inclined brace with the support and the bar or lever and the brace being maintained interlocked with the support by the weight to which the bracket is subjected, substantially as described.

2. A device of the class described comprising a support, and a bracket composed of an inclined brace, and a bar or lever pivoted between its ends to the brace and fulcrumed thereon, said bracket being detachably interlocked with the support, one of the parts being provided with a headed stud and the other part having an opening for the stud, substantially as described.

3. A device of the class described comprising a support, and a bracket composed of an inclined brace and a bar or lever fulcrumed between its ends on the brace, said bracket being detachably interlocked with the support by means of studs and openings, one of the parts being provided with studs and the other part having openings composed of enlarged central portions and contracted upper and lower portions, substantially as described.

4. A device of the class described comprising a support, a bracket detachably interlocked with the support and composed of a horizontal bar or lever, and an inclined brace pivoted at its upper end to the bar or lever at a point between the ends thereof, said bar or lever being provided at its lower edge with a notch, a shelf supported by the bar or lever, and a fastening device depending from the shelf at one side of the bar or lever and engaging the notch thereof, substantially as described.

5. A device of the class described comprising a support provided with slots, knees connected with the support and designed to be secured to a wall or the like, and a bracket composed of a horizontal bar or lever having a stud detachably interlocked with one of the slots of the support, and an inclined brace pivoted at its upper end to the horizontal bar or lever and provided at its lower end with a stud interlocked with a slot of the support, substantially as described.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

WILLIAM C. PECKHAM.

Witnesses:

CLYDE S. EMRICK,
LULU MICHAEL.