No. 790,793. PATENTED MAY 23, 1905.

G. C. KOCH.

SHELF BRACKET.

APPLICATION FILED JAN. 27, 1905.

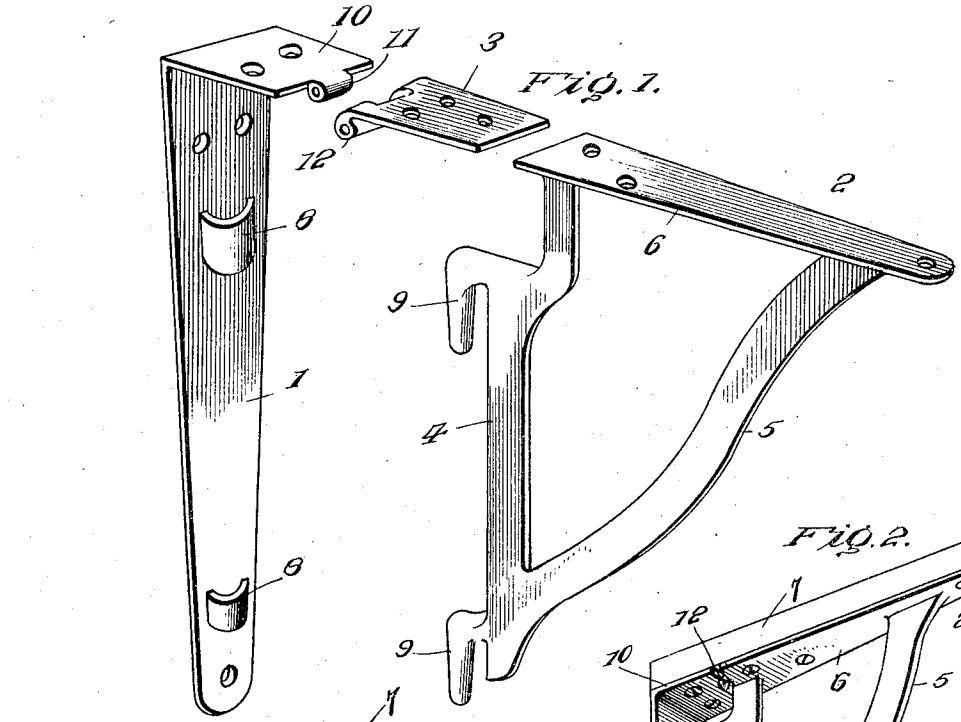


Fig. 1.

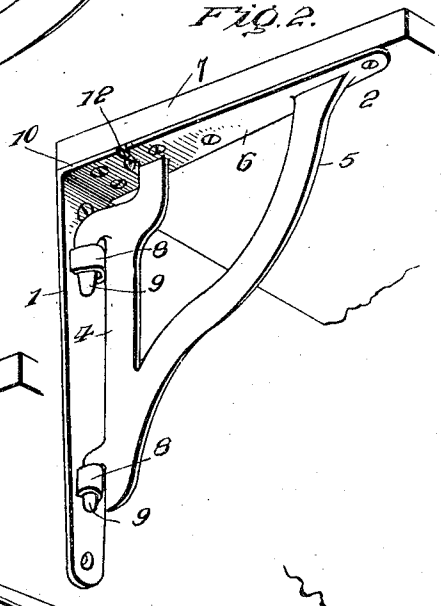


Fig. 2.

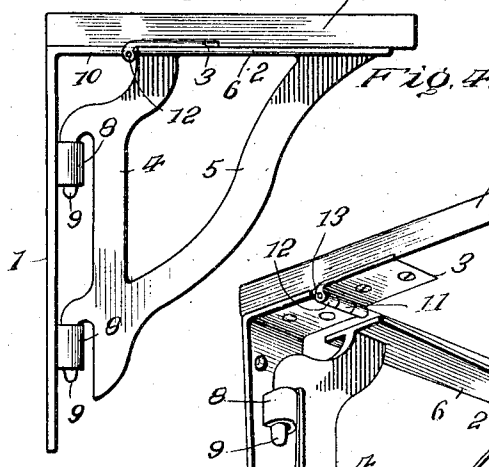


Fig. 4.

Fig. 3.

Witnesses

W. M. Goodson

Inventor

G. C. Koch,

By Rhodes Racey, Attorneys

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No. 790,793. Patented May 23, 1905.

UNITED STATES PATENT OFFICE.

GUSTAV C. KOCH, OF FAIRMONT, MINNESOTA.

SHELF-BRACKET.

SPECIFICATION forming part of Letters Patent No. 790,793, dated May 23, 1905.

Application filed January 27, 1905. Serial No. 242,949.

To all whom it may concern:

Be it known that I, GUSTAV C. KOCH, a citizen of the United States, residing at Fairmont, in the county of Martin and State of Minnesota, have invented certain new and useful Improvements in Shelf-Brackets, of which the following is a specification.

The object of this invention is to provide a simple novel form of bracket device adapted to be secured to a wall or like support for holding a shelf.

The primary feature of the invention resides in the construction of the bracket device, whereby the same is adapted to admit of temporary removal of the shelf or dropping the shelf, so as the same will not be in the way when not in use, or for rigidly attaching the shelf in a permanent position.

For a full description of the invention and the merits thereof and also to acquire a knowledge of the details of construction of the means for effecting the result reference is to be had to the following description and accompanying drawings.

While the invention may be adapted to different forms and conditions by changes in the structure and minor details without departing from the spirit or essential features thereof, still the preferred embodiment thereof is shown in the accompanying drawings, in which—

Figure 1 is a perspective view showing the parts of the bracket device separated. Fig. 2 is a perspective view showing the arrangement of the parts when a shelf is secured permanently to the support. Fig. 3 is a perspective view of the bracket device as when applied to the shelf in a manner admitting of dropping of the latter when necessary, the bracket member being thrown to one side. Fig. 4 is a side elevation, the invention being applied to a shelf which may be readily removed as desired.

Corresponding and like parts are referred to in the following description and indicated in all the views of the drawings by the same reference characters.

The invention embodies a support consisting, essentially, of three parts—a supporting or wall plate 1, a bracket member 2, and a hinge-plate 3. The bracket member 2 is of somewhat triangular formation, as usual, having a vertical bar 4, a brace-bar 5, and a sole 6, the shelf (indicated at 7) being secured to the latter under certain conditions. The supporting-plate 1 is attached to the wall or any other support by suitable fastenings, and said plate 1 is provided upon its outer side with pintle-lugs 8, in which L-shaped pintle members 9 upon the bar 4 of the bracket member 2 are adapted to be received, said members 8 having vertical openings therein. The bracket member 2 is thus pivotally secured to the plate 1 by means of the members 8 and 9, so that said member 2 may be readily thrown laterally for purposes which will appear more fully hereinafter. Projecting from the upper end of the plate 1 is an extension 10, having at its outer edge portion a pivot-knuckle 11. The rear end portion of the sole 6 is cut away some distance, so that when the bracket member 2 is mounted upon the plate 1 the extension 10 will be disposed spaced from but proximate the rear extremity of the part 6, virtually forming a continuation thereof and substantially in the same horizontal plane. The hinge-plate 3, above mentioned, is provided with spaced knuckles 12, which receive the knuckle 11 of the extension 10 therebetween, and a pivot-pin 13 is adapted to be passed through the several knuckles 11 and 12 to afford a pivotal connection between the plate 3 and the extension 10. The parts 10, 3, and 6 are provided with suitable openings, whereby fastenings may be passed therethrough into the shelf 7 to attach the latter to the bracket-support.

The shelf 7 may be secured upon the bracket device in several ways to admit of adjustment of the same. As shown in Fig. 2, the shelf 7 is directly attached to the extension 10 and the sole 6 of the bracket member 2, and when so mounted the shelf is rigidly held in position, not being designed for adjustment or movement in any way. The bracket member 2 is of course mounted upon the plate 1 by connection of the members 8 and 9, as above described.

If it is desired to permit dropping of the shelf 7 to put the same out of use, which may

be desirable for various purposes, the hinge-plate 3 is pivoted to the extension 10 by use of the pivot member 13 and the shelf 7 is attached to the hinge-plate, so that said shelf may have hinged connection with the supporting-plate 1. In this construction the member 2 is utilized as a brace, and when projecting outwardly from the plate 1 said bracket member extends beneath the shelf and holds the same in a horizontal position. If it is desirable to drop the shelf 7, it is only necessary to throw the bracket member 2 to one side, as clearly brought out in Fig. 3, when the shelf will be free to move downwardly.

In Fig. 4 the shelf 7 is attached both to the bracket member 2 and to the hinge-plate 3, and this construction admits of removal of the members 2 and 3, together with the shelf, when it is desired to displace the latter entirely. The above arrangement of the parts admits of removal of the pivot-pin 13, or pins when more than a single bracket device is used for a shelf, and when the pin 13 is taken out or disengaged from the members 11 and 12 the shelf may be lifted bodily with the members 3 and 2, the pintle members 9 being disengaged from the members 8 by vertical movement of the shelf in a manner readily apparent.

The supporting device as above described is comparatively simple in its nature and may be cheaply manufactured, at the same time admitting of an advantageous adjustment or displacement of the shelf, dependent upon the desires of the user.

Having thus described the invention, what is claimed as new is—

1. In a shelf-bracket, the combination of a supporting-plate, a bracket member carried by said supporting-plate, and a hinge-plate secured to the supporting-plate.

2. In a shelf-bracket, the combination of a supporting-plate adapted to be attached to a wall or the like, an extension projecting outwardly from the upper end portion of the supporting-plate, a hinge-plate pivoted to the extension, and a bracket member mounted upon the supporting-plate.

3. In a shelf-bracket, the combination of a supporting-plate adapted to be attached to a wall or the like, an extension projecting outwardly from the upper portion of the supporting-plate, a bracket member pivoted to the supporting-plate and having its rear portion cut away to receive the extension aforesaid, and a hinge-plate mounted upon the extension.

4. In a shelf-bracket, the combination of a supporting-plate, an extension projecting outwardly from the upper end portion of the supporting-plate, a horizontally-swinging bracket member carried by the supporting-plate, and a hinge-plate pivoted to the extension aforesaid.

In testimony whereof I affix my signature in presence of two witnesses.

GUSTAV C. KOCH. [L. S.]

Witnesses:
H. W. SINCLAIR,
D. DIEKMANN.