No. 678,112. Patented July 9, 1901.

# W. C. CALLENDER.

## BRACKET.

(Application filed Feb. 19, 1900.)

(No Model.)

Fig. 1

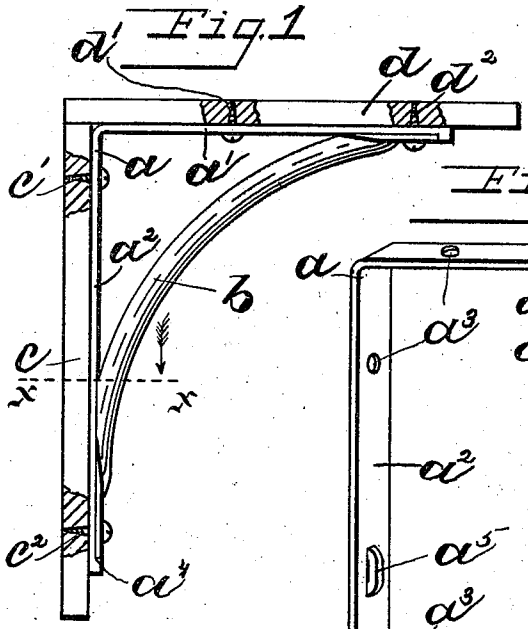



Fig. 2

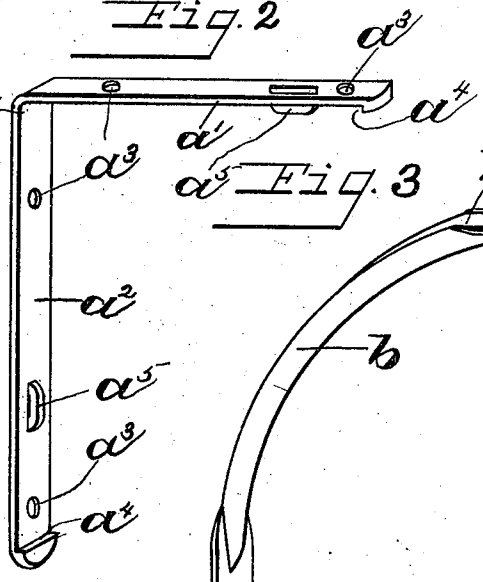



Fig. 3




Fig. 4

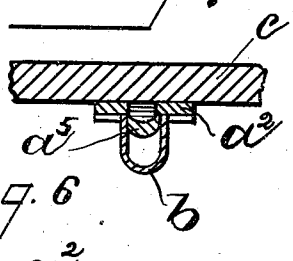



Fig. 6

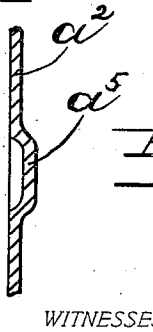
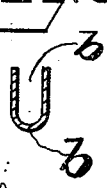



Fig. 5




WITNESSES:

Frank L. Walker

Edmond J. Ogden.

INVENTOR.

BY William C. Callender

Chas. F. Ogden

ATTORNEY.

# UNITED STATES PATENT OFFICE.

WILLIAM C. CALLENDER, OF PIQUA, OHIO.

## BRACKET.

SPECIFICATION forming part of Letters Patent No. 678,112, dated July 9, 1901.

Application filed February 19, 1900. Serial No. 5,694. (No model.)

*To all whom it may concern:*

Be it known that I, WILLIAM C. CALLENDER, a citizen of the United States, residing at Piqua, in the county of Miami and State of Ohio, have invented certain new and useful Improvements in Brackets, of which the following is a specification.

My invention relates to improvements in brackets, and more particularly to brackets used for supporting shelves and similar structures.

The object of my invention is to provide a bracket which can be more easily adjusted to its position than those heretofore employed and to improve upon the construction of devices of this character and reduce the cost of such construction.

My invention consists in the constructions and combinations of parts hereinafter described and claimed.

In the accompanying drawings, Figure 1 is a side elevation of my improved device, showing the same attached to portions of shelf and wall. Figs. 2 and 3 are perspective views of portions of the same. Fig. 4 is a sectional view on line $x\,x$ in Fig. 1. Fig, 5 is a sectional view of the supporting-brace. Fig. 6 is a detail view in section of the wall-plate or shelf-plate.

Like parts are represented by similar letters of reference in the several views.

In this class of brackets, which are designed to be attached to the wall and shelf or other structure by screws or similar fastening devices, difficulty has been experienced in conveniently securing the same in position by reason of the position of the supporting-brace, which prevents the use of the tools in a convenient manner. In my improved device the shelf and wall plates are first secured in position and the brace afterward attached thereto.

In the drawings, $a$ represents the wall and shelf plates of my bracket, which are preferably formed of an L-shaped piece, $a'$ representing the shelf support or plate, and $a^2$ the wall-plate. Each of these plates is provided with holes $a^3$ for the reception of nails or screws for securing the plates to the wall and shelf, respectively.

$b$ represents a detachable supporting-brace, which is preferably formed by stamping the same from sheet metal. Said brace is preferably formed on the arc of a circle, and the main portion is of a U shape, as shown in detail in Fig. 5, the respective ends being flattened and provided with holes for the purpose of securing the same to the respective wall and shelf plates. When the brace is in position, the respective ends thereof are adapted to rest against projections $a^4$, formed on the ends of the respective plates $a'$ and $a^2$. Lugs $a^5$ are also formed on the respective plates, preferably by stamping or punching, as shown in Figs. 4 and 6, which lugs will engage in the channeled portion of the brace $b$ and hold the same from displacement by lateral strain.

In assembling my improved bracket the angle portion constituting the wall and shelf plates is first attached to the wall and shelf $c$ and $d$ by screws $c'$ and $d'$, as shown in Fig. 1, after which the brace is placed in position, the ends of the same engaging with the shoulders $a^4$ on the ends of the respective plates, and the lugs or bosses on said plates engaging the channeled portion of said brace, said brace being firmly secured in position by screws $c^2$ $d^2$, which pass through the openings in the flattened portions thereof and corresponding openings in the plates into the wall and shelf, respectively.

It will be understood that this bracket need not be confined to the plain construction shown in the drawings, but may be ornamented to suit the fancy.

Having thus described my invention, I claim—

1. In a shelf-bracket, an inverted-L-shaped portion, shoulders near the extremities of the same, projecting bosses adjacent to said shoulders, a supporting-brace U-shaped in cross-section, adapted to engage said shoulders and bosses, substantially as and for the purpose specified.

2. In a shelf-bracket, the combination of an inverted-L-shaped member having shoulders at each of its extremities and projecting bosses adjacent to said shoulders, a supporting-brace member adapted to engage said shoulders and bosses and fastening devices passing through both members and engaging with the shelf and wall, substantially as and for the purpose specified.

In testimony whereof I have hereunto set my hand this 10th day of February, A.D. 1900.

WILLIAM C. CALLENDER.

Witnesses:
CHAS. I. WELCH,
BORDER BOWMAN.