

J. KNAPE.
SHELF SUPPORT.
APPLICATION FILED APR. 20, 1909.

951,134.

Patented Mar. 8, 1910.

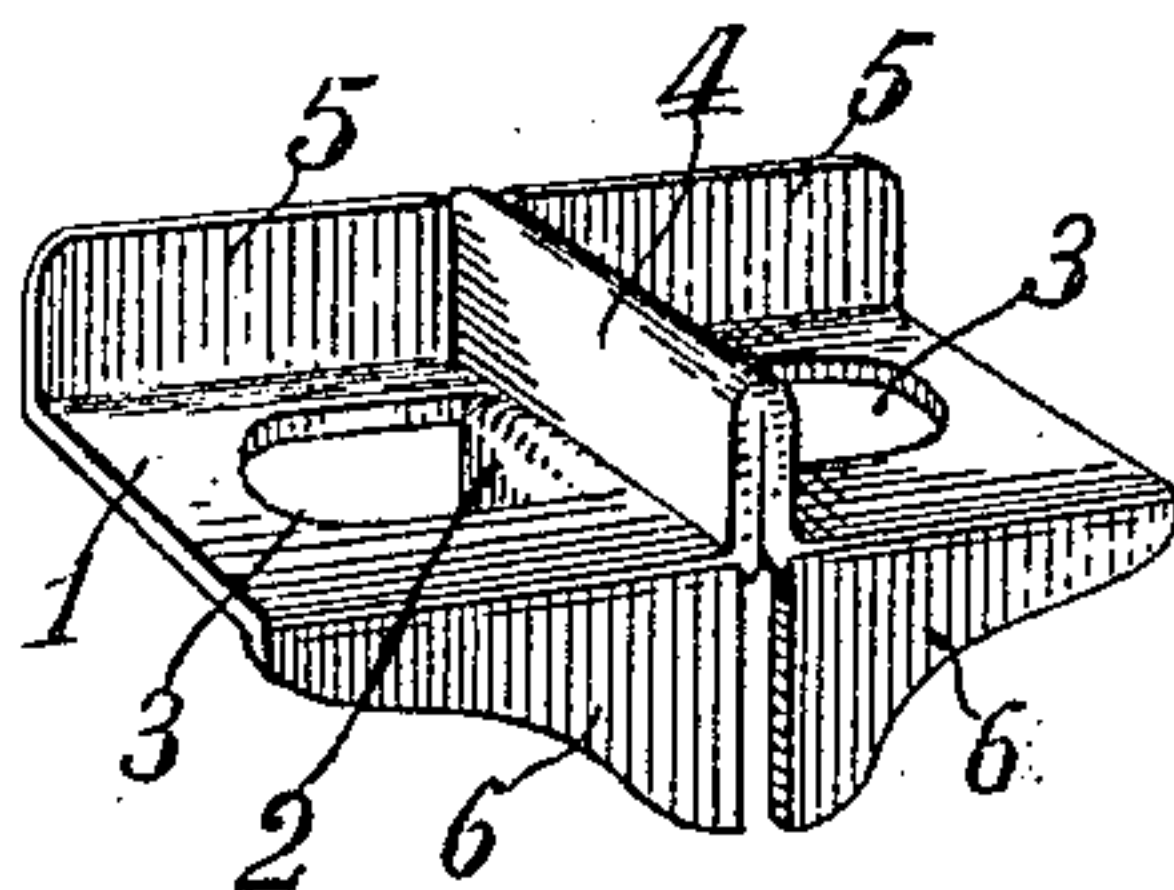


Fig. 1.

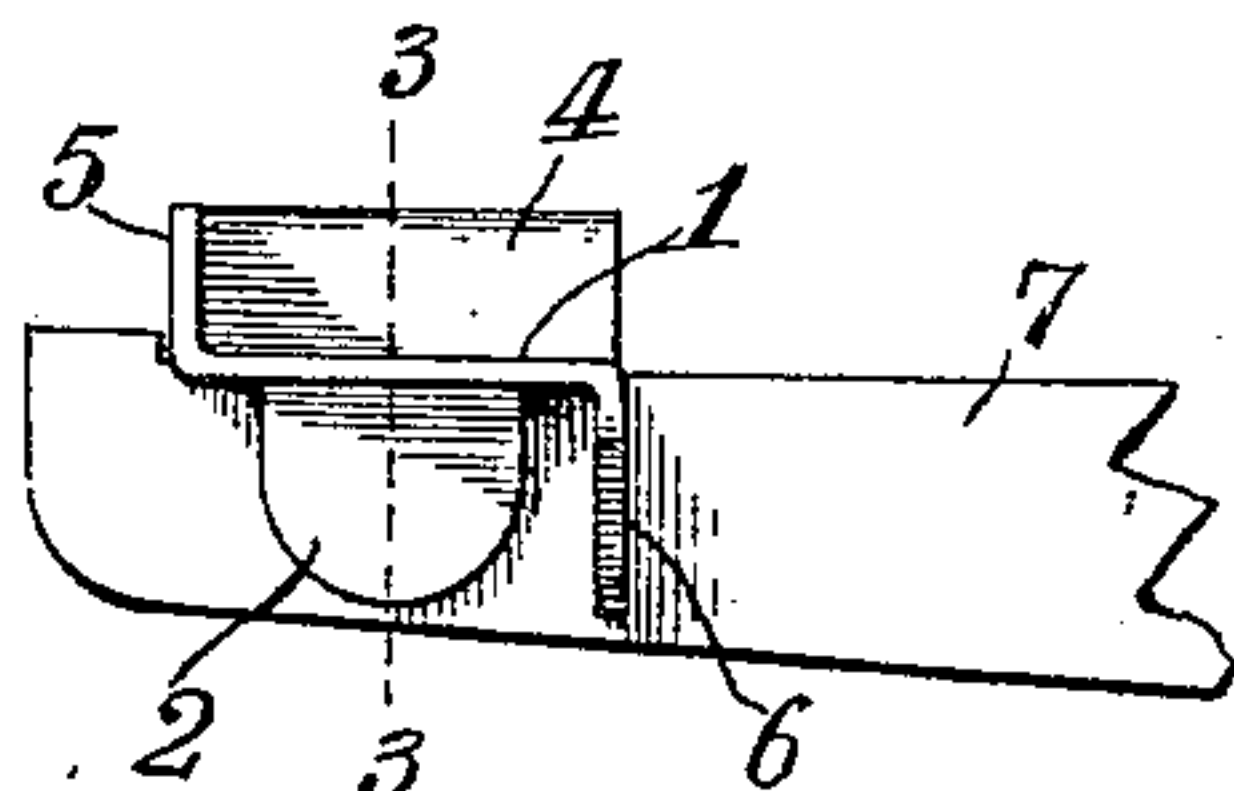


Fig. 2.

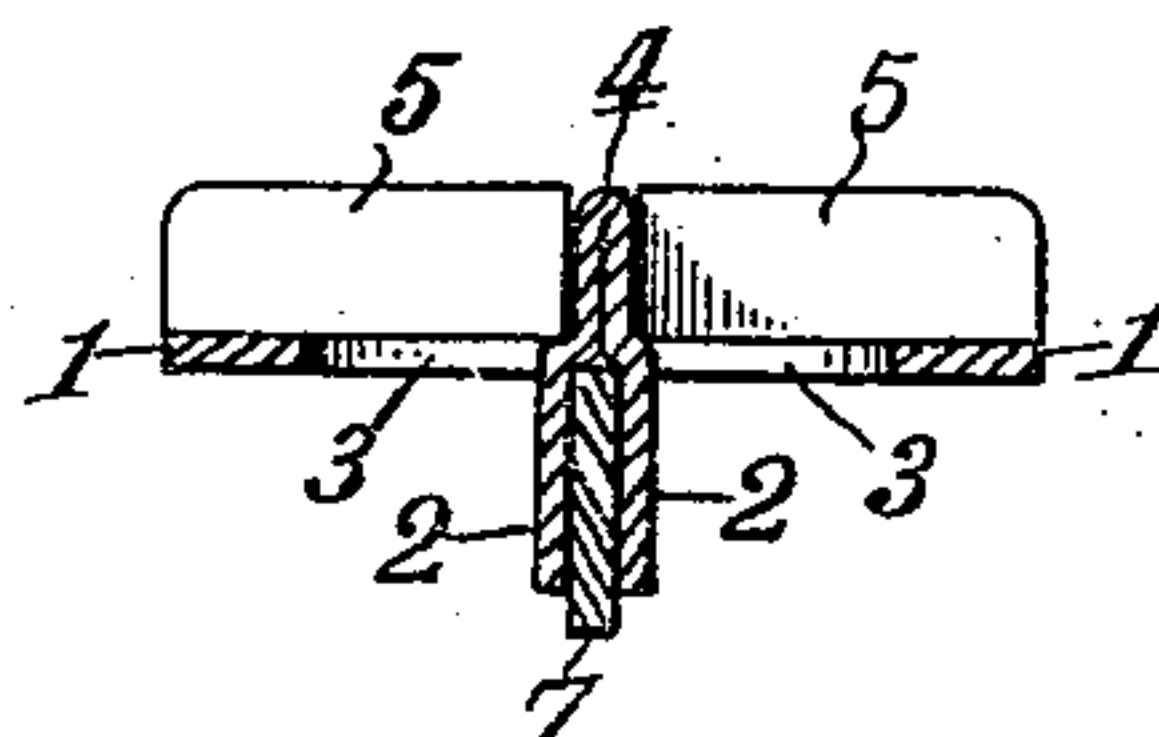


Fig. 3.

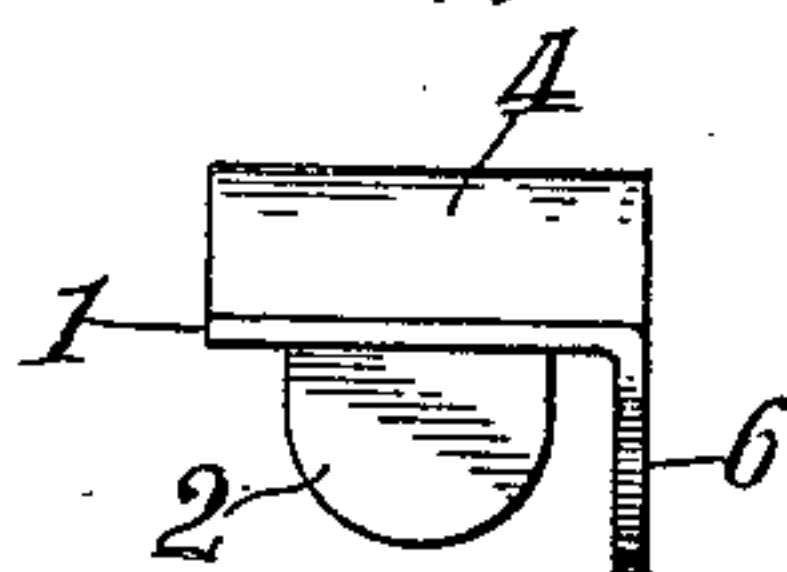


Fig. 4.

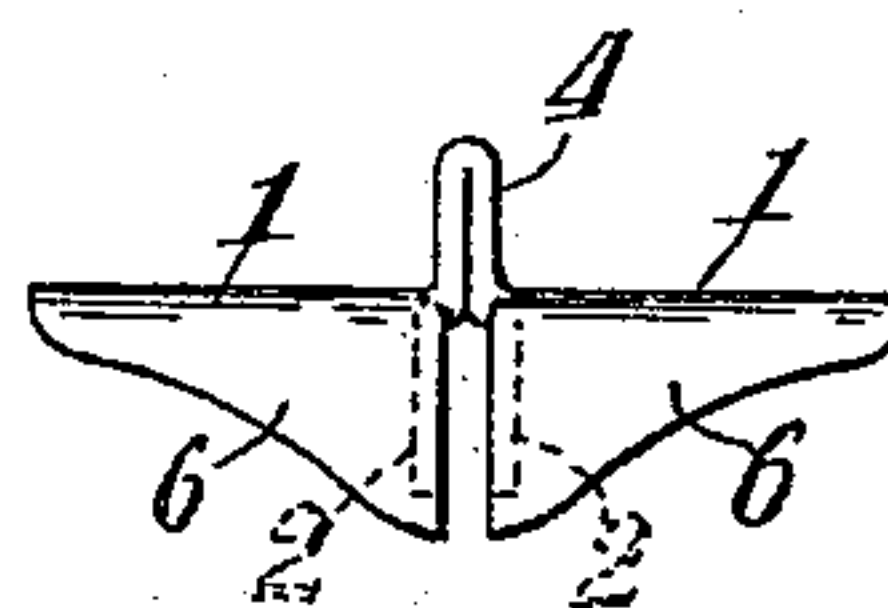


Fig. 5.

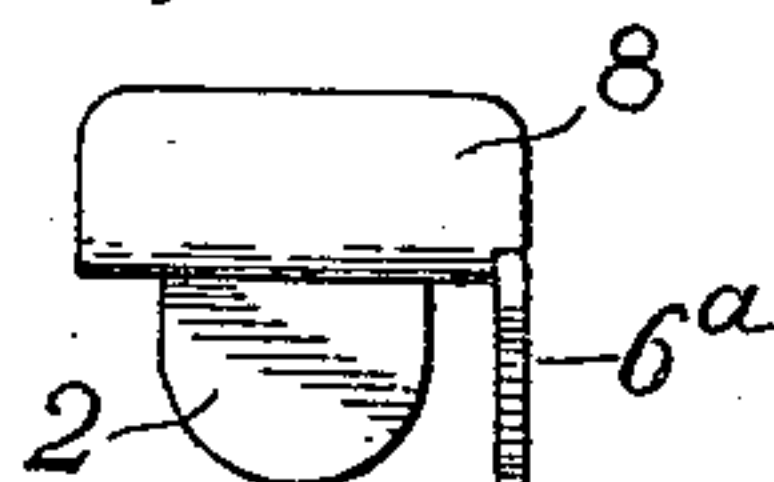


Fig. 6.

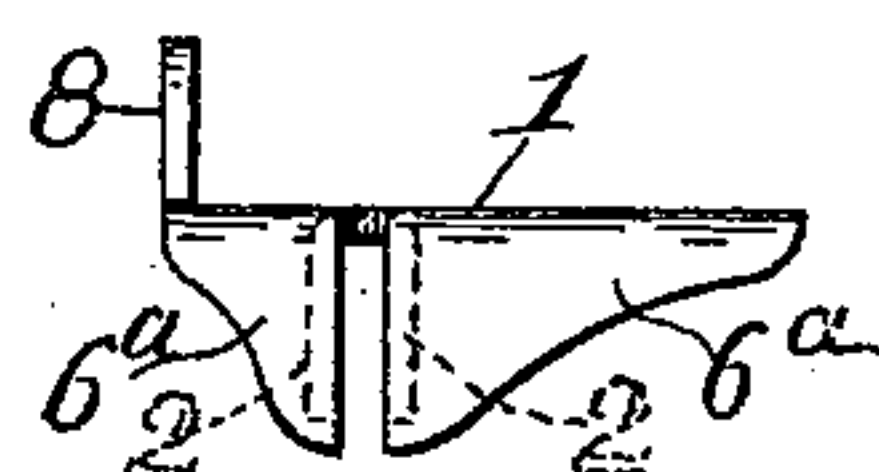


Fig. 7.

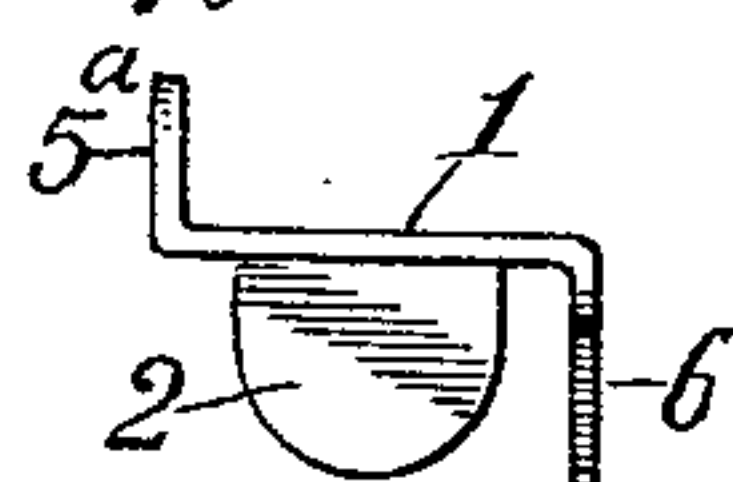


Fig. 8.

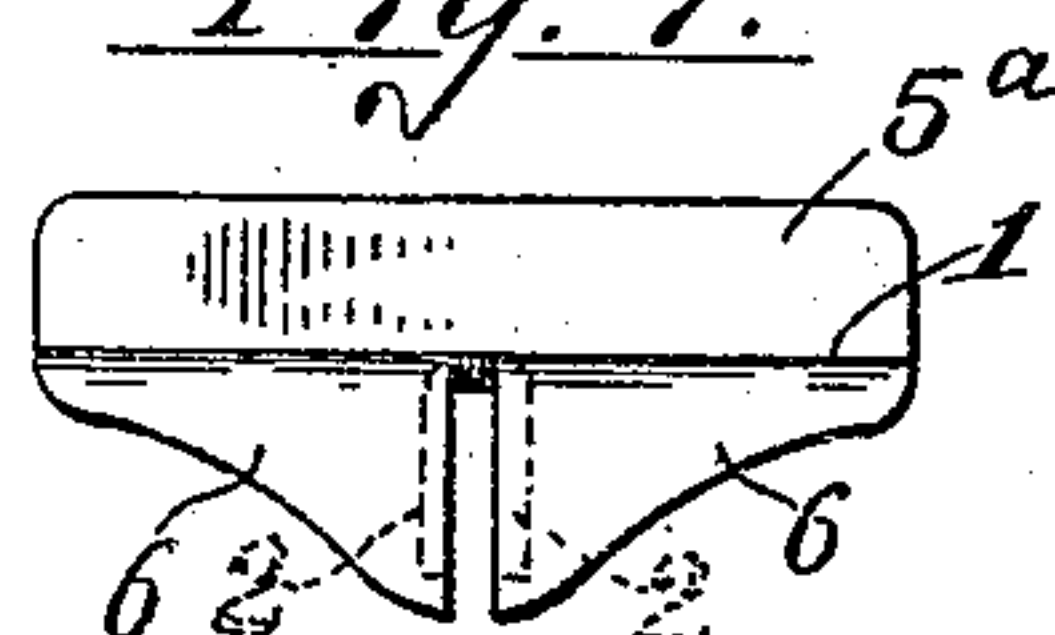


Fig. 9.

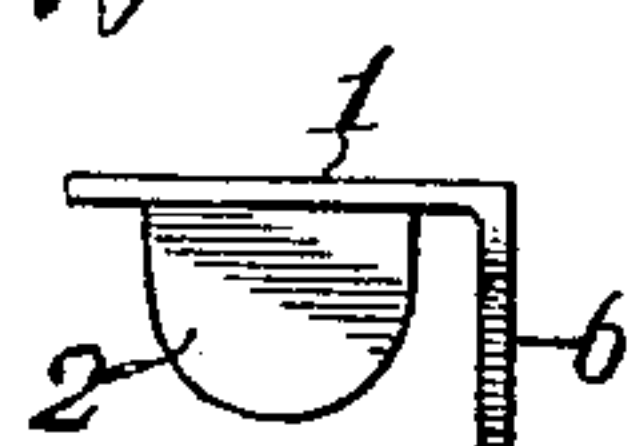


Fig. 10.



Fig. 11.

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SHELF-SUPPORT.

951,134.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, JOHN KNAPE, a citizen of the United States of America, residing at Grand Rapids, in the county of Kent and State of Michigan, have invented certain new and useful Improvements in Shelf-Supports; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to improvements in shelf supports, and more particularly to such supports to be used in connection with brackets, such as shown in my copending application, Serial No. 476,900, filed February 9, 1909, for adjustable brackets, and its object is to provide the same with various new and useful features, more particularly in respect to the means for engaging the vertical sides of the bracket to securely support the device adjustably thereon, as will more fully appear by reference to the accompanying drawings, in which:

Figure 1 is a perspective of my device; Fig. 2 a side elevation of the same applied to a bracket arm; Fig. 3 a transverse section of the same on the line 3—3 of Fig. 2; Fig. 4 a side elevation of a modification with the flange 5 omitted; Fig. 5 a front elevation of the same; Fig. 6 another modification; Fig. 7 a front elevation of the same; Fig. 8 another modification with the middle rib 4 omitted; Fig. 9 a front elevation of the same; Fig. 10 is a side elevation of a modification with the parts 4 and 5 omitted; and, Fig. 11 a front elevation of the same.

Like numbers refer to like parts in all of the figures.

The device is preferably made of sheet metal, which is first blanked out of a flat sheet in suitable shape, and then formed up by suitable dies into the various shapes, in each of which is found a portion of the interior of the bed plate partially severed and turned down at each side of the middle to slidably embrace the bracket, and support the bed plate in horizontal position thereon.

Referring to the drawings, 1 is the horizontal portion to support the adjacent ends of two shelves, which I term the bed plate. 2 are interior portions of this bed plate partially severed therefrom and turned down in parallel planes transversely of the bed plate, and at right angles thereto and

also spaced apart a suitable distance to properly embrace the sides of the bracket 7, the bed plate being thus horizontally and adjustably supported on the top of the bracket, when applied thereto, leaving openings 3 in the bed plate, where the portions 2 have been removed therefrom as shown in Fig. 1.

4 is a middle rib which I prefer to use in some cases, extending upward between the adjacent shelves (not shown) supported upon the bracket.

5 are upwardly turned rear portions forming stops to engage the shelves and arranged at right angles to the middle rib 4.

6 represent downward turned braces formed of the front part of the plate and spaced apart at adjacent edges to embrace the bracket, and further contribute to the means for supporting the bed plate upon the same in a horizontal position.

7 in Figs. 2 and 3 represents a portion of the bracket with my device applied thereto.

The modification shown in Figs. 4 and 5 consists of the same bed plate 1, side supports 2 severed from the bed plate and turned down, the middle rib 4, and the front braces 6, the back stop 5 being omitted.

The modification shown in Figs. 6 and 7 shows the same bed plate having the same side supports 2 turned down to embrace the bracket, the front braces 6^a being unequal and modified to bring the bracket nearest one side of the bed plate 1, an end stop 8 turned upward, and the middle rib 4 omitted.

The modification shown in Figs. 8 and 9 show the same bed plate with supports 2 turned down, the rear stop 5^a being made continuous, the middle rib 4 omitted, and the front braces 6 the same as in Fig. 1.

Figs. 10 and 11 represent a device similar to Fig. 1 in respect to the parts 1, 2, and 6, all of the upward projections 4 and 5 being omitted.

What I claim is:

1. A shelf support, comprising a bed plate adapted to rest upon a bracket, and having two partially severed interior portions turned downward in parallel planes and spaced apart to embrace the bracket.

2. A shelf support, comprising a bed plate having two partially severed interior portions turned downward in parallel planes and spaced apart, a middle portion folded upward to form a partition, a rear portion

turned upward to form a stop, and two front portions turned downward to form braces spaced apart to embrace a bracket.

3. A shelf support, comprising a bed plate having two partially severed interior portions turned downward in parallel planes and spaced apart to embrace a bracket, and also having two front portions turned down

to form braces spaced apart to embrace the bracket.

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

JOHN KNAPE.

Witnesses:

GEORGIANA CHACE,
LUTHER V. MOULTON.