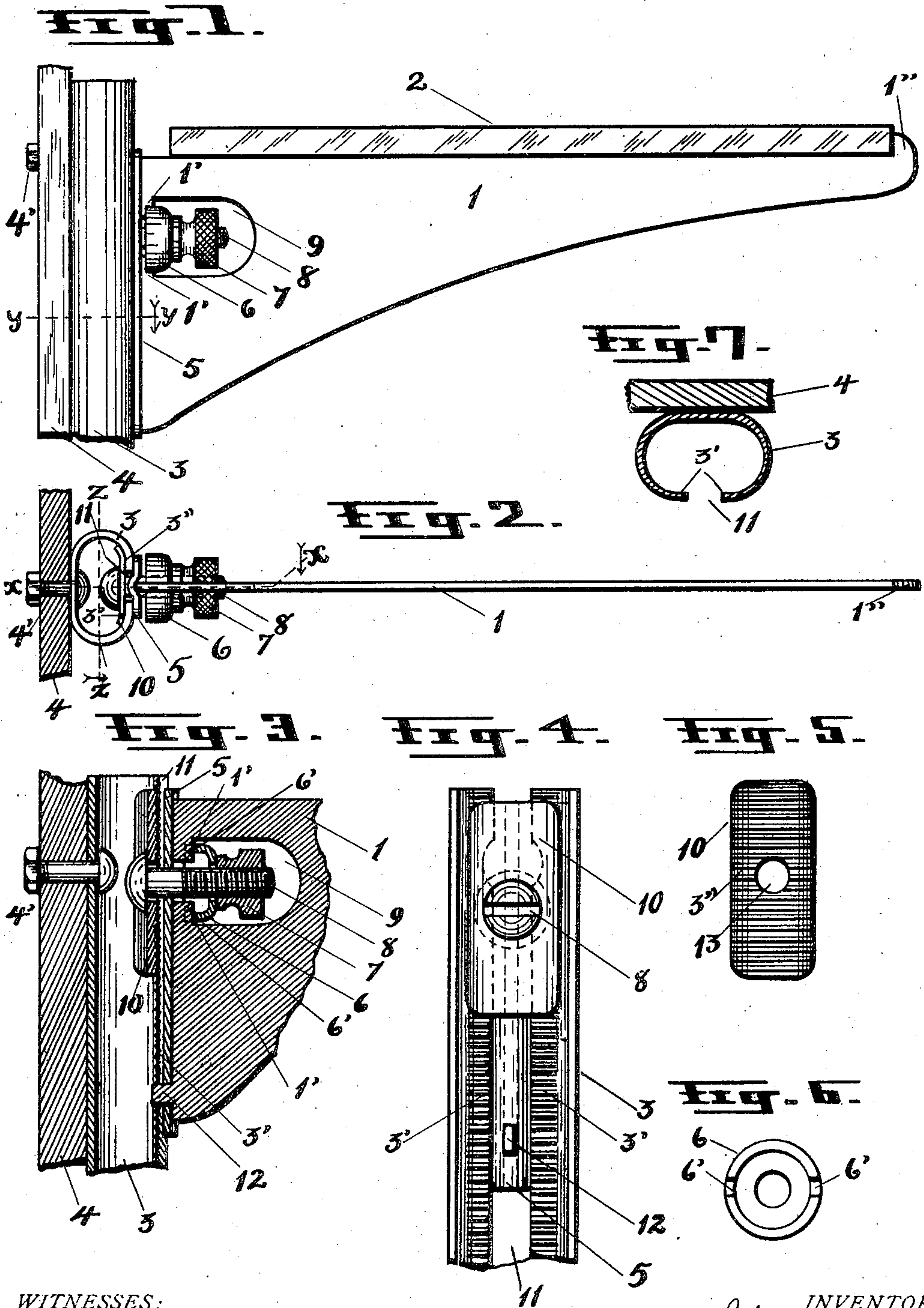


No. 844,367.

PATENTED FEB. 19, 1907.

J. KNAPE.  
BRACKET AND SUPPORT THEREFOR.  
APPLICATION FILED NOV. 8, 1906.



WITNESSES:  
Charles W. Duke.  
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# UNITED STATES PATENT OFFICE.

JOHN KNAPE, OF GRAND RAPIDS, MICHIGAN.

## BRACKET AND SUPPORT THEREFOR.

No. 844,367.

Specification of Letters Patent.

Patented Feb. 19, 1907.

Application filed November 6, 1906. Serial No. 342,263.

*To all whom it may concern:*

Be it known that I, JOHN KNAPE, a citizen of the United States, residing at Grand Rapids, in the county of Kent and State of Michigan, have invented a new and useful Bracket and Support Therefor, of which the following is a specification.

My invention relates to improvements in brackets and supports therefor, and in particular to adjustable brackets and supports for show and other display cases.

The objects of this invention are, first, to provide a bracket and support therefor that can be constructed cheaply from sheet metal by stamping and rolling; second, to provide a bracket that can be easily and quickly adjusted to any position on the support; third, to provide fastening means of simple construction whereby the bracket will be held rigidly in position.

Further objects will definitely appear from the detailed description to follow.

I accomplish the objects of my invention by the devices and means described in the following specification.

The invention is clearly defined and pointed out in the claims.

A structure embodying the features of my invention is illustrated in the accompanying drawings, forming a part of this specification, in which—

Figure 1 is a side view of my improved bracket and support therefor. Fig. 2 is a top view of my improved bracket and support therefor. Fig. 3 is a sectional view taken on line *x x* of Fig. 2. Fig. 4 is a sectional view on line *z z* of Fig. 2. Fig. 5 is a front view showing the transverse corrugations on the inner clamping-plate. Fig. 6 is a bottom view of the sheet-metal cap-washer, showing the slots therein. Fig. 7 is a sectional view on line *y y* of Fig. 1.

In all the drawings all of the sectional views are taken looking in the direction of the little arrows at the ends of the section-lines.

Similar letters of reference refer to similar parts throughout the several views.

Referring to the lettered parts of the drawings, the bracket 1, which may be of any desired form, is provided at its outer end with the upwardly-projecting stud or shoulder 1' to prevent lateral displacement of the shelf 2. In the upper rear end of the bracket is the opening 9, having a neck-like entrance formed by the shoulders 1' 1', the whole being formed by ordinarily punching or stamp-

ing out the metal. This opening 9, with its neck-like entrance, is so formed as to embrace a bolt, washer, and nut to be hereinafter referred to. The lower rear end of the bracket is provided with the rearwardly-extending projection 12.

The standard or support 3 is formed, preferably, from a strip of sheet metal by rolling the same into a hollow C-shaped cylinder, the edges of the strip being brought close enough together to form channel or slot 11. The support is secured by a bolt 4', passing through the back wall of the support into the fixture 4, or the support may be secured in any other desirable way. On the inside of the front wall of the support along each side of the slot 11 are the transverse corrugations 3'.

The fastening devices whereby the bracket is secured to the support consist of a threaded bolt 8, a washer 6, a thumb-nut 7, and two clamping-plates 10 and 5. The clamping-plate 10 is formed to fit on the inside of the front wall of the support, one of its faces being provided with transverse corrugations 3'' to register with the transverse corrugations 3' on the inside front walls of the support. It is also provided with the perforation 13 to permit the bolt 8 to pass therethrough. The clamping-plate 5 is provided with a longitudinal depression or seat, the concaved face to receive the rear end of the bracket and the convexed face to fit in the slot 11 when the plate is applied to the front of the support. The plate is also provided with two perforations to register with the opening 9 and the projection 12 of the bracket.

The threaded bolt 8 and the thumb-nut 7 are of the usual form and construction. The washer 6 is a cap-washer formed from sheet metal, its bottom edges being provided with two slots 6' 6' so as to register with and engage the shoulders 1' 1' in the opening 9. The function of the washer is to retain the bolt 8 in position and to furnish a bearing for the nut 7. By manipulating the nut 7 the bracket can be held in rigid proximity to the support, or it can be easily and quickly adjusted on the support to any desired position.

While I have illustrated and described my improved bracket and support therefor in the form preferred by me, I am, however, aware that they are capable of considerable variation in structural details without departing from my invention.

Having thus described my invention, what



I claim as new, and desire to secure by Letters Patent, is—

1. The combination of a hollow C-shaped support having a longitudinal slot in the front thereof and provided with transverse corrugations on the inside along the edges of the said slot; a bracket provided at its rear end with an interiorly-shouldered opening and a rearwardly-extending projection; an inner perforated clamping-plate having one of its faces provided with transverse corrugations to engage the said corrugations on the inside of the support; an outer clamping-plate having a longitudinal depression therein and provided with perforations to register with the said opening and projection; a threaded bolt extending through the said clamping-plates and into the said opening; a washer provided with slots to engage the shoulders in the said opening; and a thumb-nut to engage said bolt, for securing the bracket in close proximity to the support.

2. The combination of a slotted hollow support having corrugations on the inside thereof; a bracket provided at its rear end with an interiorly-shouldered opening and a rearwardly-extending projection; an inner perforated clamping-plate having one of its faces provided with corrugations to engage said corrugations on the inside of the support; an outer clamping-plate having a longitudinal depression therein and provided

with perforations to register with the said opening and projection; and means for fastening and securing the bracket to the support.

3. The combination of a slotted hollow support; a bracket provided at its rear end with an interiorly-shouldered opening and a rearwardly-extending projection; a perforated clamping-plate for engagement on the inside of the said support; a second clamping-plate having a longitudinal depression therein and provided with perforations to register with said shouldered opening and said projection; a threaded bolt extending through the said clamping-plates and into the said opening; a washer provided with slots to engage the shoulders in the said opening; and a thumb-nut to engage said bolt for securing the bracket closely to the support.

4. The combination of a slotted hollow support; a bracket having at its rear end an opening and a rearwardly-extending projection; a perforated clamping-plate for engagement on the inside of the support; an outer clamping-plate having perforations to register with the said opening and projection; and means for fastening and securing said bracket to the support.

JOHN KNAPE.

Witnesses:

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R. M. LATHROP.