No. 692,858. Patented Feb. 11, 1902.

C. F. KADE.

SHELF BRACKET.

(Application filed May 16, 1900.)

(No Model.)

Fig. 1.

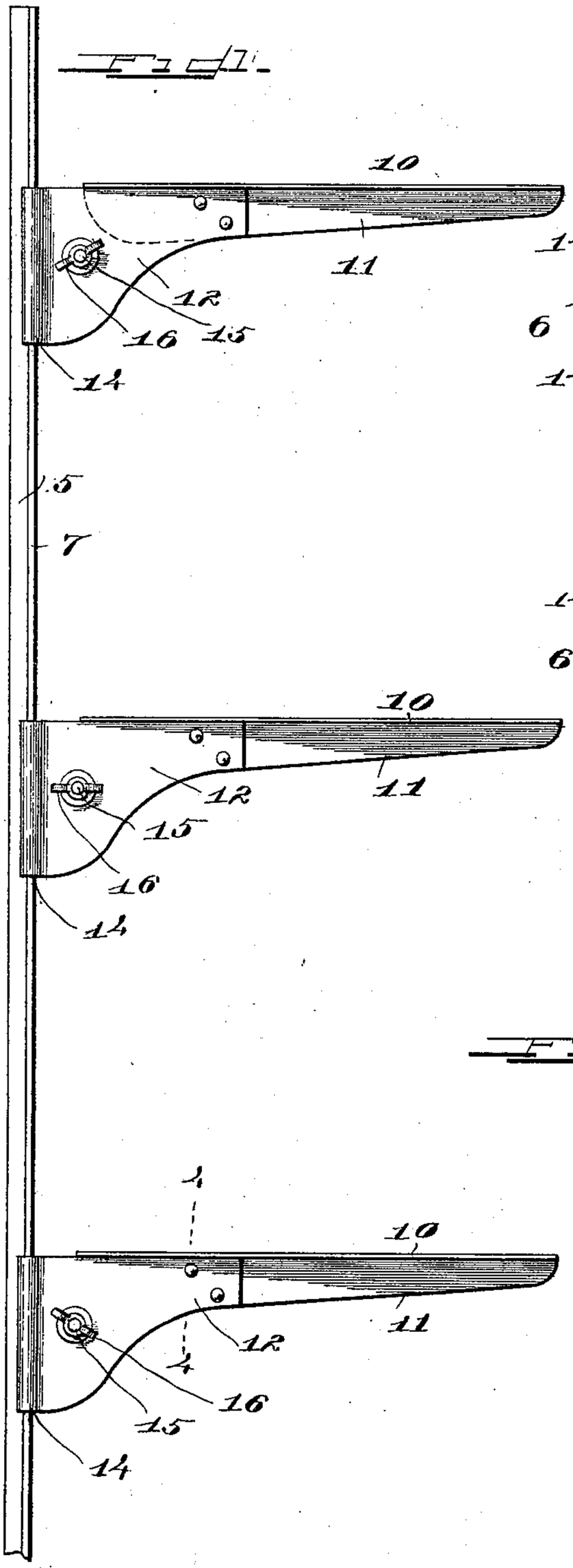


Fig. 2.

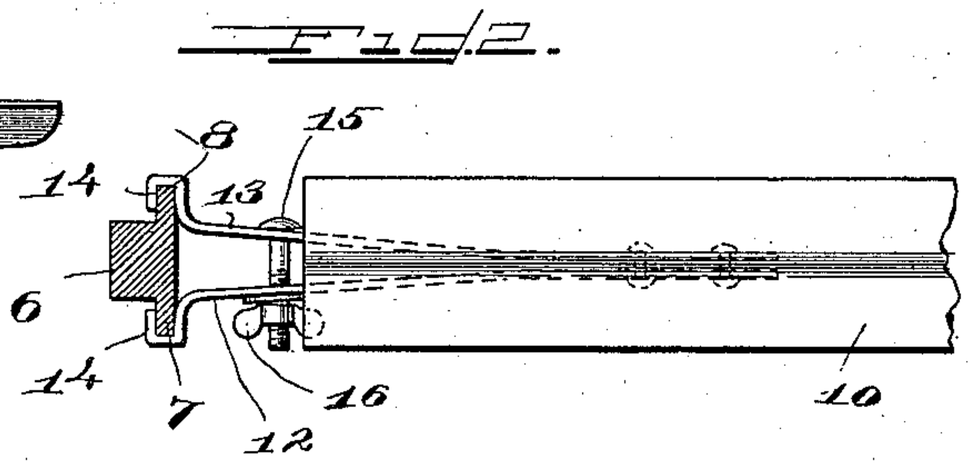


Fig. 3.

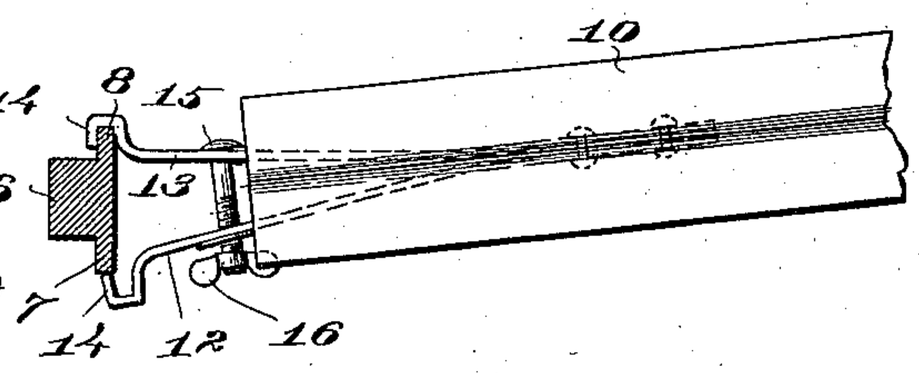
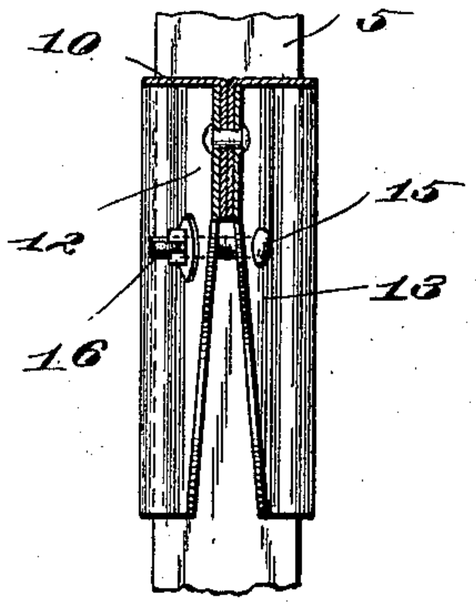


Fig. 4.



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UNITED STATES PATENT OFFICE.

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SHELF-BRACKET.

SPECIFICATION forming part of Letters Patent No. 692,858, dated February 11, 1902.

Application filed May 16, 1900. Serial No. 16,855. (No model.)

To all whom it may concern:

Be it known that I, CHARLES F. KADE, a citizen of the United States, residing at Sheboygan, in the county of Sheboygan and State of Wisconsin, have invented certain new and useful Improvements in Shelf-Brackets, of which the following is a specification, reference being had to the accompanying drawings.

My invention relates to shelf-brackets, and particularly to that type of bracket which is adapted to be secured to a vertically-disposed support adapted to carry a number of such brackets.

The object of my invention is to provide a cheap and efficient bracket which may readily be attached to the support or detached therefrom without interfering with the other brackets carried by it and, furthermore, obtaining considerable spring action in the brackets, which at the same time when in engagement with the support are run up close thereto. I accomplish this object as hereinafter described and as illustrated in the drawings.

That which I regard as new will be set forth in the claims.

Referring to the drawings, Figure 1 is a side elevation. Fig. 2 is a plan view, the bracket-support being in section. Fig. 3 is a similar view showing the method of detaching the bracket from its support, and Fig. 4 is a vertical section on line 4 4 of Fig. 1.

In the drawings, 5 indicates a support which preferably consists of a bar 6, having lateral flanges 7 8, making the support T-shaped in cross-section; but the shape of the support may be varied as desired.

The bracket is composed of a top plate 10, arranged horizontally, a vertically-disposed web 11 on the under side of the plate 10, and a clamp at the inner side of said plate 10, consisting of spring-plates 12 13, secured to the web 11 and having channel or other suitably shaped portions 14 at the opposite ends, the ends of the clamps being shaped to grip the support. A bolt 15 and thumb-screw 16 are provided for drawing the spring-plates 12 13 together. Said bolt is reversible in the spring-plates, so that the clamp may be operated from either side. As illustrated in the drawings, the upper edges of the spring-plates 12 13 lie immediately below the top plate 10; but said plates may move laterally independently of said plate 10, so that the clamp may be adjusted independently of said top plate. By this construction the top plate 10 may be caused to approach much closer to the support 5 than in prior constructions. The top plate 10 and web 11 are best formed by securing together two angle-irons, the horizontal portions forming the top plate, while the vertical portions form the web.

That which I claim as my invention, and desire to secure by Letters Patent, is—

1. The combination of a pair of horizontally-extending plates engaging each other at their inner edges, a pair of downwardly-extending abutting webs formed integral with said plates, a pair of spring-plates formed separately from and secured to said webs at a point removed from the inner ends of said webs, said spring-plates being movable toward and from each other under the overhanging portions of said horizontal plates, and an adjustable binding device extending through said spring-plates, substantially as described.

2. The combination of a pair of horizontally-extending plates engaging each other at their inner edges, and having downwardly-extending abutting webs, said webs being fixedly connected together, a pair of spring-plates secured near their outer ends to said webs at a point removed from the inner ends of said webs, said spring-plates being movable toward and from each other beneath the overhanging portions of said horizontal plates, the free ends of said spring-plates being formed into clamping devices, and an adjustable binding device between said clamping devices and the inner ends of said webs, substantially as described.

CHARLES F. KADE.

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