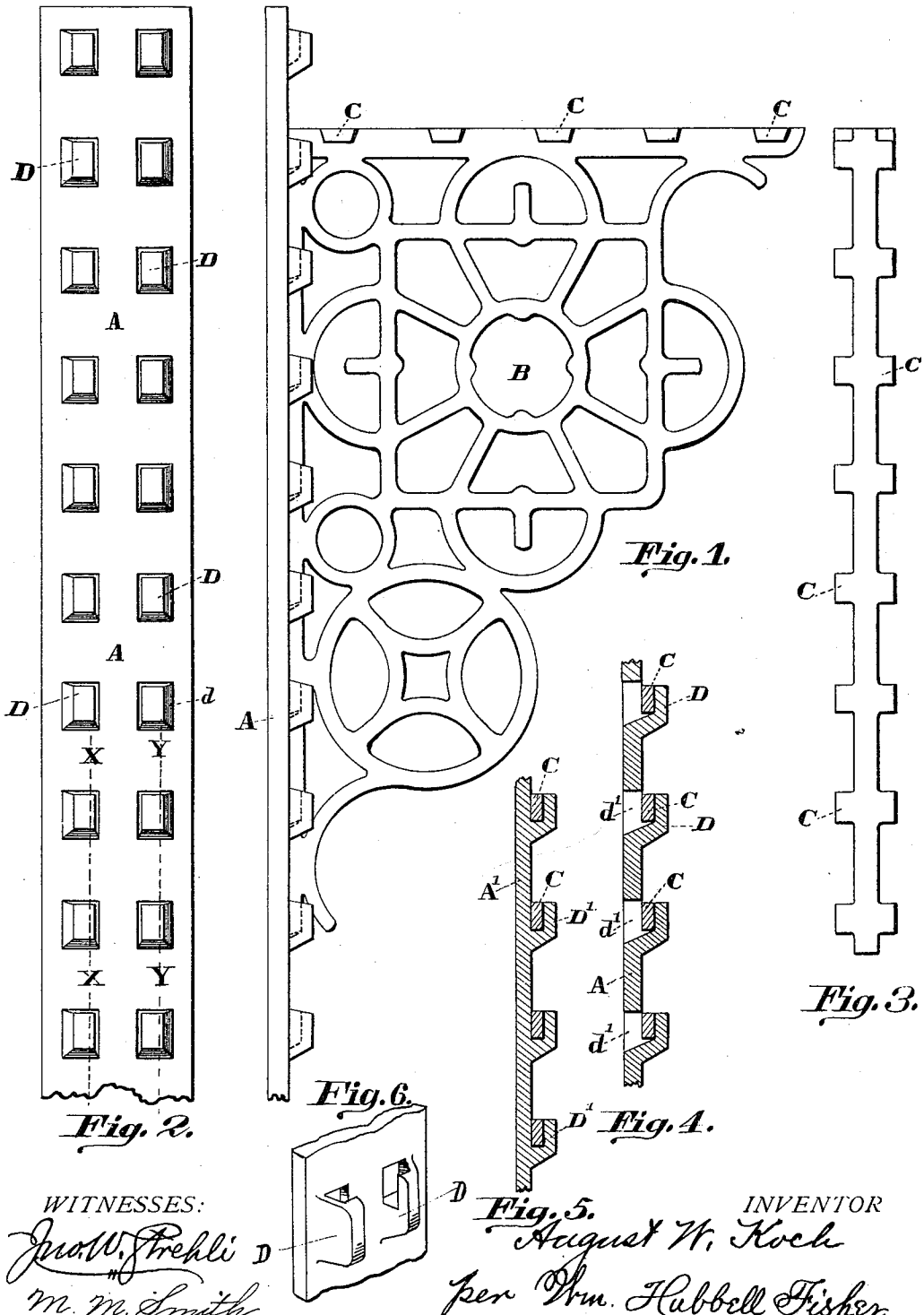
(No Model.)

A. W. KOCH.

BRACKET.

No. 350,934. Patented Oct. 19, 1886.



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UNITED STATES PATENT OFFICE.

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BRACKET.

SPECIFICATION forming part of Letters Patent No. 350,934, dated October 19, 1886.

Application filed January 30, 1886. Serial No. 190,277. (No model.)

To all whom it may concern:

Be it known that I, AUGUST W. KOCH, a citizen of the United States, and a resident of the town of Peoria, in the county of Peoria and State of Illinois, have invented certain new and useful Improvements in Brackets.

The several features of my invention and the various advantages resulting from their use, conjointly or otherwise, will be apparent from the following specification.

The object of my invention is to provide an adjustable bracket for shelves.

In the accompanying drawings, forming part of this specification, Figure 1 is a side elevation of my bracket in its support. Fig. 2 is a front elevation of the bracket-support. Fig. 3 is an elevation of that edge of the bracket which is against the support in Fig. 1. Fig. 4 is a section through the line x x, Fig. 2, the bracket being in position. Fig. 5 is a section taken through the same line as Fig. 4, and showing a modification in the supporting-hooks. Fig. 6 is a perspective view of part of the supporting-plate, showing a pair of hooks.

The preferred general shape of the bracket B is that of a right-angled triangle, the sides about the right angle being preferably unequal in length. One of these edges is designed to support the shelf, while the other rests against the wall. These edges are provided with a series of teeth, C, from each face of the bracket, as shown in Fig. 3. The teeth on each side are opposite their fellows of the other side, and are set at equal distances apart along the two edges.

The plate A is provided with two series of supporting-hooks, D, the distance between them being somewhat greater than the thickness of the bracket B. As shown in Fig. 4, these hooks point upwardly, and the outer edge of each hook is connected to the plate A by the web *d*. This latter feature is shown in Figs. 2 and 6. Immediately behind each hook is an opening, *d'*, which perforates the plate A.

In Fig. 5 a flat unbroken plate, A', is shown in section, with hooks D' projecting from its surface. In these hooks D' the web *d* is preferably wanting, and the plate A' is not provided with the openings *d'*. The plate shown in Figs. 2 and 4 is the preferred form, because of the ease with which such a plate may be cast. This plate may be cast in a two-part mold, while the one shown in Fig. 5 requires a special core for each hook D.

In use the plate A is secured to the wall or other body to which the bracket is to be attached. The bracket is then hooked into the plate, as shown in Fig. 1, in any desired position, higher or lower, on the plate in Fig. 1, the teeth C resting in the hooks D. In attaching the bracket B, either the short edge or the long edge may be placed uppermost. In this way the bracket may be used with either wide or narrow shelves.

The special use of the bracket is to support shelving on walls. The plate A being thin allows each shelf to be pushed quite snugly against the wall.

The ready adjustability of the bracket and its adaptation to both narrow and broad shelving is an important advantage over other forms of bracket. The bracket being supported by several hooks, D, is quite firm in its position, and the accidental breaking of one or more of these hooks does not necessarily interfere with or impair the use of the bracket.

While the various features of my invention are preferably used together one or more of said features may be used without the remainder, and in so far as applicable, one or more of such features may be employed with brackets or shelving other than that particularly herein described.

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

1. The cast plate A, having openings *d'*, and hooks D, with webs *d*, substantially as and for the purposes specified.

2. The bracket B, provided at each edge with vertical row of teeth C, in combination with the plate A, provided with the two vertical rows of hooks D, with their free ends pointing upward, each of the hooks D of one row arranged for the reception of the teeth of the corresponding row of teeth on the bracket, substantially as and for the purposes specified.

3. The bracket B, having two sides of unequal length, each side provided with teeth, and the plate A, provided with hooks for engagement with the teeth of the bracket, substantially as and for the purposes specified.

AUGUST W. KOCH.

Witnesses:
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E. L. SCHUEBLY.