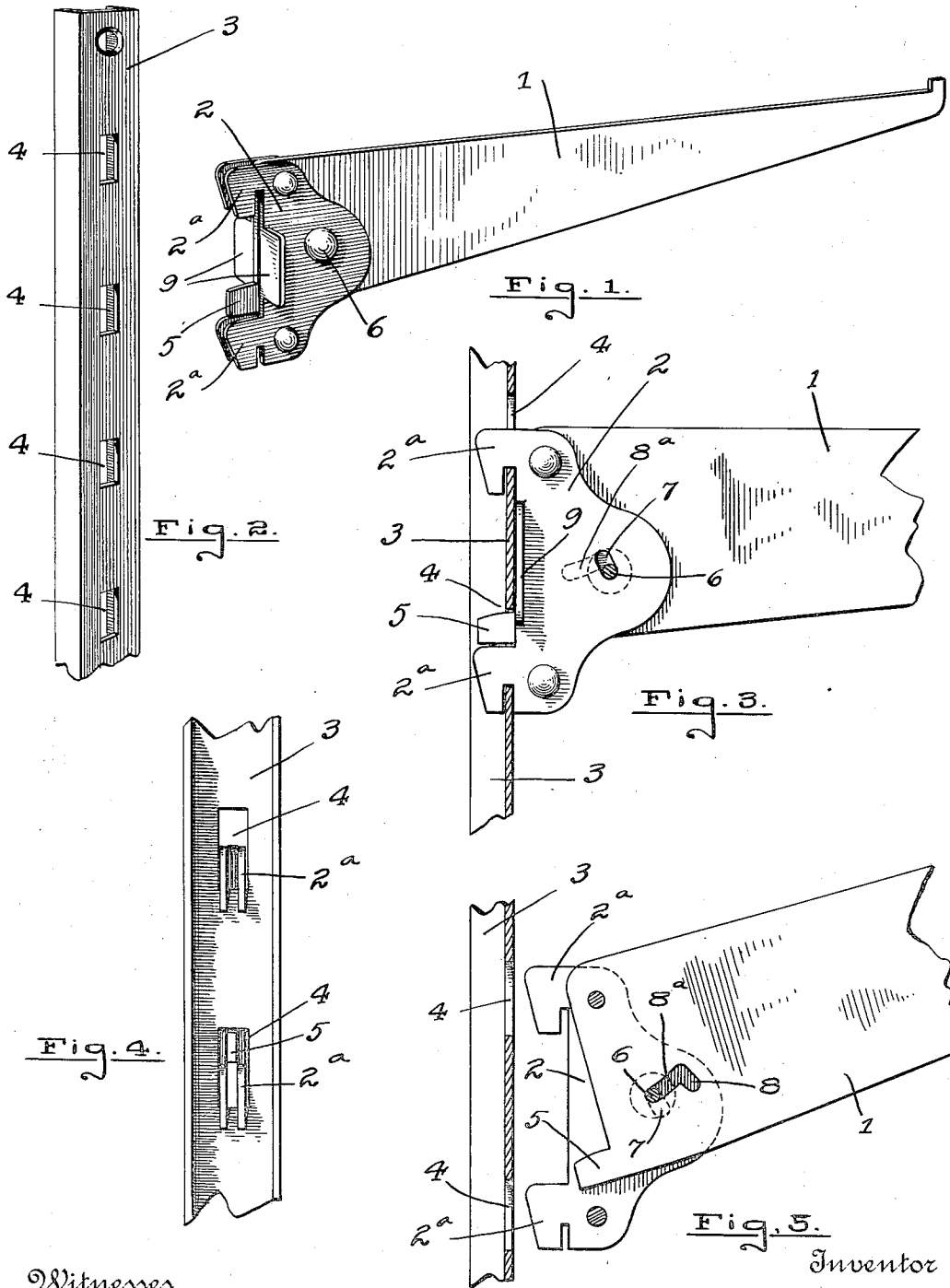


W. F. FREEMAN.
ADJUSTABLE DETACHABLE BRACKET.
APPLICATION FILED MAY 16, 1910.

977,609.

Patented Dec. 6, 1910.



Witnesses
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UNITED STATES PATENT OFFICE.

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ADJUSTABLE DETACHABLE BRACKET.

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Specification of Letters Patent.

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Application filed May 16, 1910. Serial No. 561,591.

To all whom it may concern:

Be it known that I, WILLIAM F. FREEMAN, 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 Adjustable Detachable Brackets; 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 adjustable detachable brackets, and more particularly to such brackets as are adapted to support shelving in show cases and the like, and its object is to provide means for easily and quickly locking the bracket in its adjusted position, and to provide the device with various new and useful improvements as hereinafter more fully described and particularly pointed out in the claims, reference being had to the accompanying drawings, in which:

Figure 1 is a perspective view of a bracket embodying my newly invented features; Fig. 2 a perspective view of a holder for the bracket; Fig. 3 an enlarged elevation, partially in section of the bracket and holder in operative and locked position; Fig. 4 a rear view of Fig. 3; and Fig. 5 an elevation showing the holder in vertical section and the bracket with one of the hook plates removed, unlocked and removed from the holder.

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

The bracket arm 1, substantially a right angled triangle in shape, is pivoted between two hook plates 2 near its right angle. The hook plates 2 are provided near the top and bottom of their rear edges with hook projections 2^a which are arranged to be inserted in openings 4 in a channel bar or holder 3 fastened securely in the case. After the hook projections 2^a are inserted in the openings 4, they are lowered until they rest upon and hook over the lower wall of these openings, leaving an open space between the top of the hooks and the top wall of the openings.

In order to overcome the possibility of the bracket becoming accidentally unhooked from the holder, I provide a rearwardly extending lug 5 near the lower angle of the

arm 1. When the bracket is in operative position, this lug 5 projects through one of the openings 4 above the lower hook, engaging the upper wall of said opening and preventing the bracket from being raised and unhooked. It will be seen that in this position, which is shown in Fig. 3, the base of the triangle; or in other words, the rear edge of the bracket arm 1, engages the face of the holder 3, thus securely supporting the arm with its upper edge at right angles to the bar 3. To lock the arm in this position, I provide an opposing slot 7 in the hook plates 2 radial from the point at which the arm is pivoted, and a corresponding slot 8 in the arm opposite the slot 7. A slidable pin having a head at each end, slidably engaging the outer surface of the respective plate, is inserted in these slots and when the pin is at the bottom of the slots pivotal movement of the arm is prevented. The upper end of the slot 8 in the arm, however, is provided with an extension 8^a concentric with the axis of the pivot before mentioned, and when the pin 6 is raised to the top of the slots 7 and 8, the outer end of the arm may be raised. When this movement takes place, the pin will traverse the slot 8^a and the lug 5 will be withdrawn from the opening 4 in the holder 3, allowing the bracket to be removed from said holder. A series of openings are provided in the holder so that the bracket may be adjusted to any desired height. Lateral extensions or flanges 9 are provided on the hook plates to engage the face of the holder and prevent side movement of the bracket arm.

What I claim is:—

1. A bracket, comprising a bar having openings, plates having hooks adapted to be inserted in said openings, a bracket arm pivoted between said plates, and a lug 5 on the arm to enter one of said openings and lock the hook therein.

2. A bracket, comprising a bar having openings, plates having hooks to enter said openings, laterally extended flanges on the plates to engage the bar, a bracket arm pivoted between the plates, and a lug on the arm adapted to enter one of said openings and lock the hooks in the openings.

3. A bracket, comprising a bar having openings, plates having hooks to enter said openings, a bracket arm pivoted near its upper angle between the plates, a lug on the

arm near the lower angle thereof and projected into one of said openings to lock a hook therein, and means for locking the bracket arm to the plates.

- 5 4. A bracket, comprising a bar having openings at intervals therein, plates having hooks to enter said openings, a bracket arm pivoted between the plates near its upper angle, a lug on the arm near its upper angle
10 adapted to enter one of said openings and lock the hook therein, radial slots in the arm and plates, and a slot in the arm extending laterally from the radial slot in the same and a pin slidable in said slots and extending through the plates and arm.

15 5. A bracket, comprising a bar having a series of openings spaced apart, plates hav-

ing hooks to enter said openings, laterally projecting flanges on the plates, a bracket arm pivoted between the plates, a lug on the 20 arm to enter one of said openings and lock the hook therein, opposing radial slots in the arm and plates, a lateral slot in the arm communicating with the radial slot in the same, a pin slidable in said slots, and heads 25 on the respective ends of the pin slidably engaging the outer surfaces of said plates.

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

WILLIAM F. FREEMAN.

Witnesses:

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