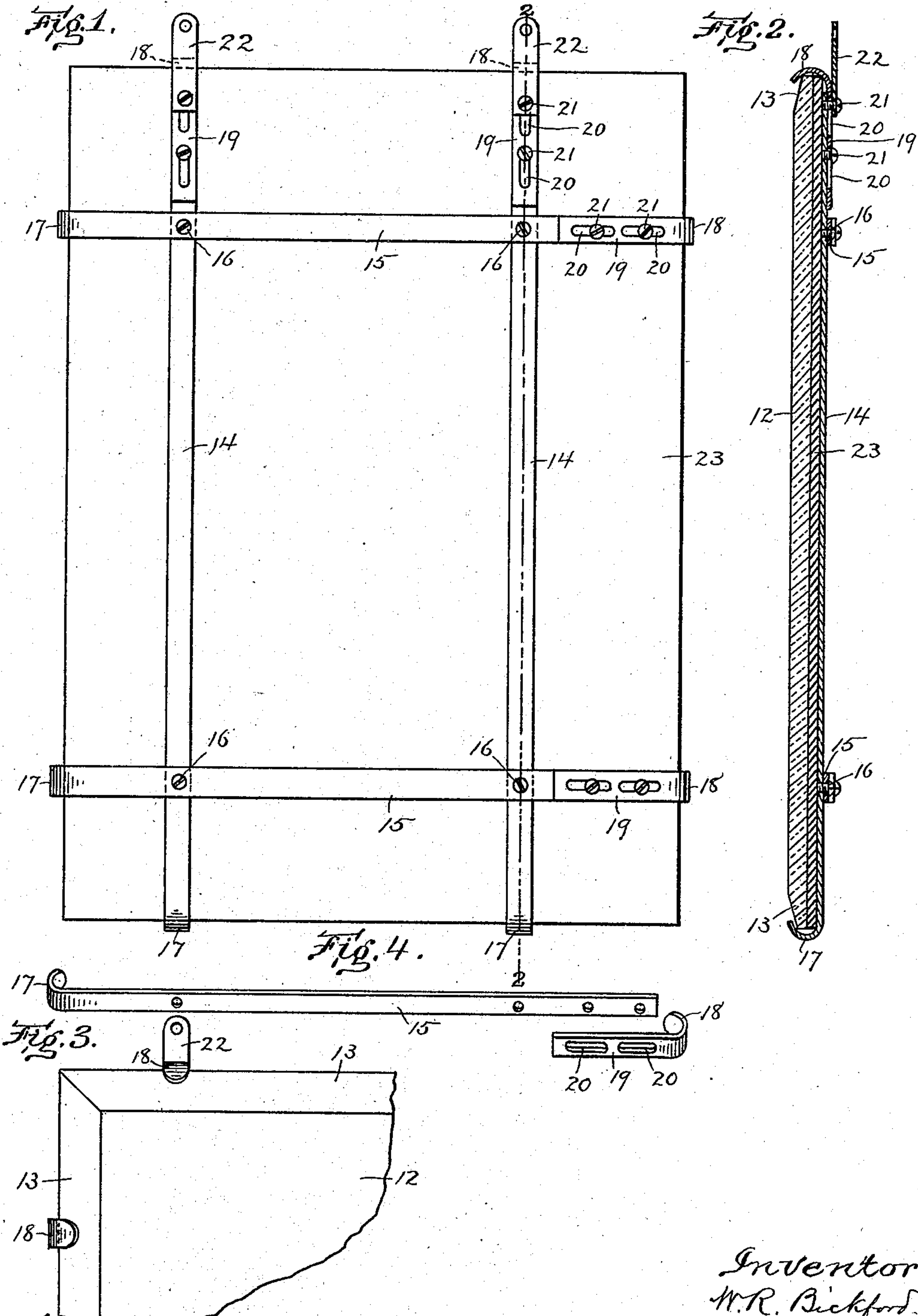


W. R. BICKFORD.  
 HOLDER FOR FRAMELESS MIRRORS, &c.  
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911,568.

Patented Feb. 9, 1909.



Witnesses:  
 P. H. Pezzetti  
 F. R. Ronkstone

Inventor  
 W. R. Bickford  
 by Knight Brown Quinby May  
 attys.



# UNITED STATES PATENT OFFICE.

WALLACE R. BICKFORD, OF WALTHAM, MASSACHUSETTS, ASSIGNOR TO STANDARD PLATE GLASS COMPANY, OF BOSTON, MASSACHUSETTS, A CORPORATION OF PENNSYLVANIA.

HOLDER FOR FRAMELESS MIRRORS, &c.

No. 911,568.

Specification of Letters Patent.

Patented Feb. 9, 1909.

Application filed December 14, 1908. Serial No. 467,350.

*To all whom it may concern:*

Be it known that I, WALLACE R. BICKFORD, of Waltham, in the county of Middlesex and State of Massachusetts, have invented certain new and useful Improvements in Holders for Frameless Mirrors, &c., of which the following is a specification.

This invention has for its object to provide improved means for backing and holding a flat article of substantially rectangular form, such as a plate of glass adapted to serve as a mirror, the construction of the holder being such that it firmly engages the plate at different portions of its margin, affords a strong and stable support for the back of the plate, and is adapted to be adjusted to plates of different sizes.

The invention consists in the improved holder which I will now proceed to describe and claim.

Of the accompanying drawings, forming a part of this specification, Figure 1 represents a view of the back of a mirror plate provided with a holder embodying my invention. Fig. 2 represents a section on line 2—2 of Fig. 1. Fig. 3 represents a view of a portion of the front of the mirror, and corresponding portions of the holder. Fig. 4 represents a perspective view of one of the bars of which the holder is composed.

The same reference characters indicate the same parts in all the figures.

In the drawings, 12 represents a rectangular plate, which may be of heavy plate glass prepared as usual for use as a mirror, by a suitable coating applied to the back of the plate, the front side of the plate being preferably provided with beveled marginal faces 13.

In carrying out my invention, I provide the plate 12 with a holder which forms a skeleton backing for the plate, and is engaged with its margin at a plurality of points, the holder furnishing means for supporting the plate in position for use. The said holder is composed of a series of bars 14 formed to extend across the back of the plate in one direction, and a series of bars 15 formed to extend across the back of the plate in a direction at right angles to the bars 14, the bars of one series intersecting those of the other, and being rigidly connected thereto at the points of intersection by screws 16.

Each bar is provided at one end with an integral hook 17 which is formed to engage one of the beveled faces 13 of the plate, and at its opposite end with an adjustable hook 18 formed to engage the opposite beveled face 13, the adjustable hook having a shank 19 provided with slots 20 which receive attaching screws 21 engaged with the body portion of the bar, the slots and screws constituting means for securing the adjustable hooks 18 to the accompanying bar at different adjustments to adapt the holder to plates of different sizes.

It will be seen by reference to Fig. 1 that the integral hooks are arranged to engage two adjacent edges of the plate, while the adjustable hooks are adapted to engage the other two edges of the plate.

In assembling the parts, the plate is moved into engagement with all the integral hooks, the adjustable hooks being loosened, and when the plate is properly seated on the integral hooks, the adjustable hooks are moved into engagement with the plate and fastened by the screws 21. The holder is thus securely affixed to the plate, the only portions of the holder which are visible at the front of the plate being the portions of the hooks which project over the beveled faces of the plate, and in the case of a mirror which is to be suspended by a cord, two ears 22, which are secured to the shanks of the upper adjustable hooks 18 by two of the attaching screws 21, said ears projecting above the upper end of the frame and having orifices to engage a suspending cord.

It will be seen from the foregoing that the described holder is adapted to be conveniently and securely applied to a plate, and that when applied, it constitutes a backing which materially protects and strengthens the plate and affords a means for supporting the same.

23 represents a backing member which is interposed between the plate 12 and the bars of the holder as a protector for the reflecting coating on the back of the plate.

I claim:

A plate backing and grasping holder composed of two series of rigidly connected bars, the bars of one series intersecting those of the other series, each bar having at one end an integral hook and at its opposite end an



adjustable hook, and means for securing the  
latter at different adjustments, the integral  
hooks being adapted to engage two adjacent  
edges of a rectangular plate, while the ad-  
5 justable hooks are adapted to engage the  
edges opposite those engaged by the integral  
hooks.

In testimony whereof I have affixed my  
signature, in presence of two witnesses.

WALLACE R. BICKFORD.

Witnesses:

C. F. BROWN,

P. W. PEZZETTI.