

G. X. HICKERSON.
SUPPORTING DEVICE:
APPLICATION FILED NOV. 8, 1912.

1,115,818.

Patented Nov. 3, 1914.

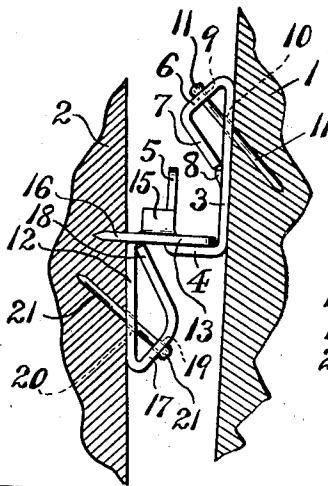


Fig. 1

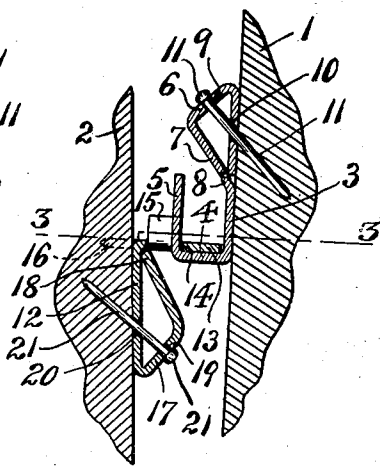


Fig. 2

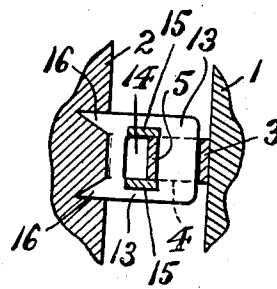


Fig. 3

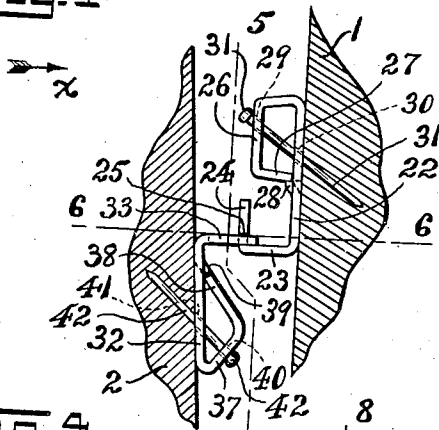


Fig. 4

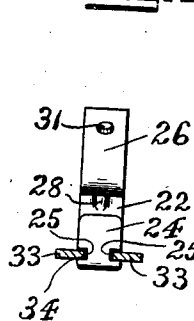


Fig. 5

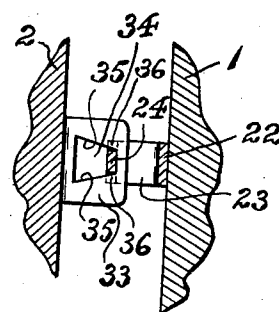


Fig. 6

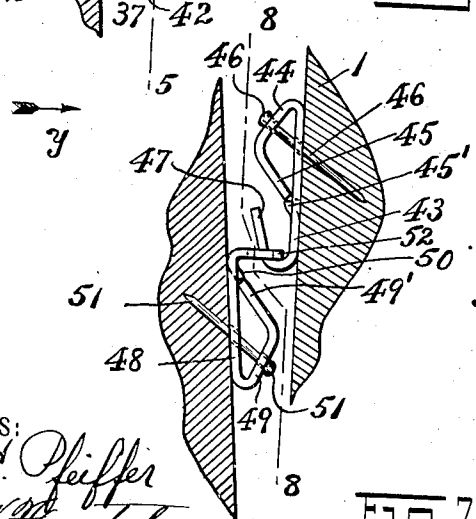


Fig. 7

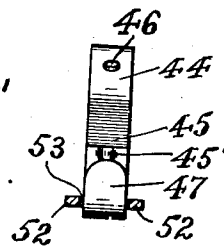


Fig. 8

WITNESSES:
Harry E. Pfeiffer
Frank W. W. Prang

INVENTOR
George X. Hickerson,
BY
Frautz & Richards,
ATTORNEYS

UNITED STATES PATENT OFFICE.

GEORGE X. HICKERSON, OF BROOKLYN, NEW YORK, ASSIGNOR TO HAMPDEN MANUFACTURING COMPANY, INC., A CORPORATION OF NEW YORK.

SUPPORTING DEVICE.

1,115,818.

Specification of Letters Patent.

Patented Nov. 3, 1914.

Application filed November 8, 1912. Serial No. 730,213.

To all whom it may concern:

Be it known that I, GEORGE X. HICKERSON, a citizen of the United States, residing at Brooklyn, in the county of Kings and State of New York, have invented certain new and useful Improvements in Supporting Devices; 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, reference being had to the accompanying drawings, and to characters of reference marked thereon, which form a part of this specification.

The present invention has reference, generally, to improvements in hangers or supporting devices; and the said invention relates, more particularly, to hanging or supporting devices for hanging pictures and similar articles upon a wall or other desirable surface.

The present invention has for its principal object to provide a simple, cheap and strong hanger or supporting device, the same being small in size so as to be hidden from sight by the article supported, yet arranged to be so secured to the wall and article as to be firmly and securely connected therewith and capable of supporting considerable weight.

Another object of the invention is to provide means for so coupling or connecting the hangers or supporting devices in their operative relation as to assure the proper straight or level alinement of the picture or other device supported thereby.

Other objects of this invention not at this time more particularly mentioned will be clearly understood from the following detailed description of the invention.

The invention consists, primarily, in the novel hangers or supporting devices herein-after more fully set forth; and, furthermore, this invention consists in the various arrangements and combinations of the several parts, all of which will be more fully described in the following specification and then finally embodied in the clauses of the claims which are appended to and which form an essential part of this specification.

The invention is clearly illustrated in the accompanying drawings, in which:—

Figure 1 is a side view of a pair of novel hangers or supporting devices made according to and embodying the principles of the present invention, and the same being shown

in operative connection with a wall and picture as indicated by the sectionized body of the drawing. Fig. 2 is a vertical longitudinal section of the same; and Fig. 3 is a horizontal section of the same taken on line 3—3 in said Fig. 2 looking downward. Fig. 4 is a side view of a pair of novel hangers or supporting devices of slightly modified construction, the same still embodying, however, the principles of the present invention; Fig. 5 is a transverse section of the same taken on line 5—5 in said Fig. 4 looking in the direction of the arrow *x*; and Fig. 6 is a horizontal section of the same taken on line 6—6 in Fig. 4 looking downward. Fig. 7 is a side view of a pair of novel hangers or supporting devices of another modified construction, but still embodying the principles of the present invention; and Fig. 8 is a transverse section of the same taken on line 8—8 in said Fig. 7 looking in the direction of the arrow *y*.

Similar characters of reference are employed in all of the above described views to indicate corresponding parts.

Referring now to Figs. 1, 2 and 3 of the drawings the reference-character 1 indicates a wall, or other surface, upon which it is desired to hang or support a picture-frame 2, or other article.

The reference-character 3 indicates a hook-member which is preferably secured to said wall 1. Said hook-member 3 comprises a flat body-portion adapted to lie against the wall surface. Connected with the lower end of said body-portion is an outwardly extending arm 4 the free end 5 of which is turned upwardly to provide a hook-portion. Connected with the upper end of said body-portion is a downwardly and outwardly bent or bowed portion 6 the free end 7 of which is bent inwardly so as to butt against a stop-projection 8 which is preferably pressed outwardly from said flat body-portion. Said bent or bowed portion 6 is provided with a perforation 9 and said body-portion is provided with an inclined perforation 10, the latter being positioned beneath the former so that a nail or brad 11 inserted through said perforation 9 will pass downwardly through said perforation 10 at an acute angle to the plane of said body-portion, and will be guided in entering the wall 1 at said acute angle so as to pass slantingly into said wall, whereby a strong purchase of the hook-member

ber upon the wall will be provided, which will support a great weight without danger of drawing out the said fastening nail or brad 11.

The reference-character 12 indicates an eye-member which is preferably secured to the article desired to be suspended upon said hook-member 3, such for example as the picture frame 2. Said eye-member comprises a flat body-portion adapted to lie against the rear surface of said picture frame 2. Projecting outwardly from the upper end of said flat body-portion is an eye-portion 13 provided with the opening 14 for receiving the engagement or insertion of said hook-portion of said hook-member. Turned upwardly from the side marginal edges of said opening 14 are stop-lugs 15, the same being adapted to engage the side edges of said free end 5 of said hook-portion to prevent any lateral swinging or oscillation of said eye-member when operatively engaged with said hook-member. Extending rearwardly from the upper end of said body-portion, preferably from the point where said eye-portion 13 joins said body-portion, are a pair of pointed prongs 16 which are adapted to be pushed into the frame 2 thereby serving in part to secure said eye-member to the frame and also to stiffen the eye-portion 13. Connected with the lower end of said body-portion is an upwardly and outwardly bent or bowed portion 17 the free end 18 of which is bent inwardly so as to butt against the base of said eye-portion 13. Said bent or bowed portion 17 is provided with a perforation 19, and said body-portion is provided with an inclined perforation 20, the latter being positioned above the former so that a nail or brad 21 inserted through said perforation 19 will pass upwardly through said perforation 20 at an acute angle to the plane of said body-portion, and will be guided in entering the body of said picture-frame 2 at said acute angle so as to pass slantingly into said frame 2, whereby a strong purchase of the eye-member upon the frame 2 will be provided which will support a heavy picture without danger of pulling away said eye-member by drawing out said fastening nail or brad 21. The said bowed or bent guide portions for the fastening nails of the respective hook-member and eye-member also space the head of the nail away from its point of entrance into the wall and frame, and by engaging the said nail so inclined at one point off the center of or out of alignment with the perforation of the body-portion prevents any turning or oscillation of said body-portion upon the fastening nail.

Referring now to Figs. 4, 5 and 6 of the accompanying drawings, there is illustrated a slightly modified construction of hangers or supporting devices still embodying, however, the principles of the present invention.

In this construction the reference-character 22 indicates the body-portion of a hook-member, the same being adapted to lie flat against the wall 1. Connected with the lower end of said body-portion 22 is an outwardly extending arm 23 the free end 24 of which is turned upwardly to provide a hook-member. Formed in the sides of said free end 24 at its base, or at the point where the same turns upwardly from said arm 23, are a pair of holding notches or cutaway portions 25. Connected with the upper end of said body-portion 22 is an outwardly bent or bowed portion 26 the free end 27 of which is bent inwardly so as to butt against a stop-projection 28 which is preferably pressed outwardly from said flat body portion. Said bent or bowed portion is provided with a perforation 29 and said body-portion is provided with a perforation 30, the latter being positioned beneath the former so that a nail or brad 31 inserted through said perforation 29 will pass downwardly through said perforation 30 at an acute angle to the plane of said body-portion, and will be guided in entering the wall 1 at said acute angle so as to pass slantingly into said wall, whereby a strong purchase of the hook-member in its secured relation to the wall is provided.

The reference-character 32 indicates the body-portion of an eye-member which is preferably secured to the picture-frame 2. Projecting outwardly from the upper end of said body-portion is an eye-portion 33 provided with the opening 34 for receiving the engagement or insertion of said hook-portion of said hook-member. The side marginal edges 35 of said opening 34 converge toward the outer end of the same, thereby providing holding portions 36 at the outer end of said opening which will enter said notches or cutaway portions 25 of the hook-portion of said hook-member, and being engaged therein will thus prevent any lateral swinging or swaying of said eye-member upon said hook-member. Connected with the lower end of said body-portion 32 is an upwardly and outwardly bent or bowed portion 37 the free end 38 of which is bent inwardly so as to butt against a stop-projection 39 preferably formed in the said body-portion 32. Said bent or bowed portion 37 is provided with a perforation 40 and said body-portion is provided with a perforation 41, the latter being positioned above the former so as to guide a nail or brad 42 at an acute angle when the same enters said frame 2 for fastening the eye-member thereto.

Referring now to Figs. 7 and 8 there is illustrated therein another modified form of hanger or supporting device. In these views the reference-character 43 indicates the body-portion of a hook-member provided with the bowed portion 44 the free end 45 of which

butts against the stop-projection 45'. Said bowed or bent portion and said body-portion are perforated for the insertion therethrough of a fastening nail or brad 46 in the manner above described in connection with the other constructions of hangers or supporting devices. Extending outwardly from the lower end of said body-portion 43 is an upwardly turned hook-portion 47.

10 The reference-character 48 indicates the body-portion of an eye-member, the same being provided with the bowed portion 49 the free end 49' of which butts against the stop-projection 50. Said bowed portion and said body-portion are perforated for the insertion therethrough of a fastening nail or brad 51 in the manner above described in connection with the other constructions of hangers or supporting devices. Extending outwardly from the upper end of said body-portion 48 is an eye-portion 52 provided with the opening 53 for the reception of said hook-portion 47 of said hook-member.

From the foregoing description of the present invention it will be evident that I have devised a simple, cheap, strong and durable hanger device which is particularly adapted for supporting heavy articles to walls or perpendicular places.

30 I am aware that some changes may be made in the arrangements and combinations of the parts, as well as in the details of the construction of the same, without departing from the scope of this invention. Hence, I do not limit my invention to the exact arrangements and combinations of the parts as described in the foregoing specification and as illustrated in the accompanying drawings, nor do I confine myself to the exact details of the construction of the said parts, except as limited by the scope of the appended claims.

I claim:—

1. In a device of the kind described, the combination with a supporting hook-member of a removable eye-member, said hook-member comprising a body-portion, and a hook-portion turned upwardly from the lower end of said body portion, and said eye-member comprising a body-portion, an eye-portion extending outwardly from the upper end of said body-portion provided with an opening to receive said hook-portion of said hook-member, and means for engaging said hook-portion to prevent lateral swinging of said eye-member thereon comprising, a pair of upwardly extending lugs turned up from the lateral marginal edges of said opening of said eye-portion.

2. In a device of the kind described, the combination with a supporting hook-member provided with an upwardly turned hook-

portion of a removable eye-member, said eye-member comprising a body portion, a bowed portion doubled back upon said body-portion, means for immovably supporting the free end of said bowed portion, said bowed portion and said body-portion being provided with perforations so alined as to guide a fastening nail upward at an acute angle to and through said body-portion, an eye-portion extending outwardly from the upper end of said body-portion provided with an opening to receive said hook-portion of said hook-member, and means for engaging said hook-portion to prevent lateral swinging of said eye-member thereon comprising a pair of upward extending lugs turned up from the lateral marginal edges of said opening of said eye-portion.

3. In a device of the kind described, the combination with a supporting hook-member of a removable eye-member, said eye-member comprising a body-portion provided with a guiding means for guiding a fastening nail upward at an acute angle to and through said body-portion, an outwardly extending eye-portion connected with the upper end of said body-portion provided with an opening adapted to receive said hook-portion of said hook-member, and pointed prongs extending rearwardly from said body-portion adjacent to said eye-portion.

4. A supporting hook-member comprising a body-portion, a bowed portion doubled back upon said body-portion, a stop-projection connected with said body portion against which the free end of said bowed-portion abuts, said bowed-portion and said body-portion being provided with perforations so alined as to guide a fastening nail downward at an acute angle to and through said body-portion, and a hook-portion turned upwardly from the lower end of said body-portion.

5. An eye-member comprising a body-portion, a bowed portion doubled back upon said body-portion at one end thereof, said bowed portion and said body-portion being provided with perforations so alined as to guide a fastening nail upward at an acute angle to and through said body-portion, and means providing an eye-portion formed at the opposite end of said body-portion, the free end of said bowed portion abutting against the base of said eye-portion.

In testimony, that I claim the invention set forth above I have hereunto set my hand this sixth day of November, 1912.

GEORGE X. HICKERSON.

Witnesses:

G. C. HEMENWAY,
GEORGE D. RICHARDS.