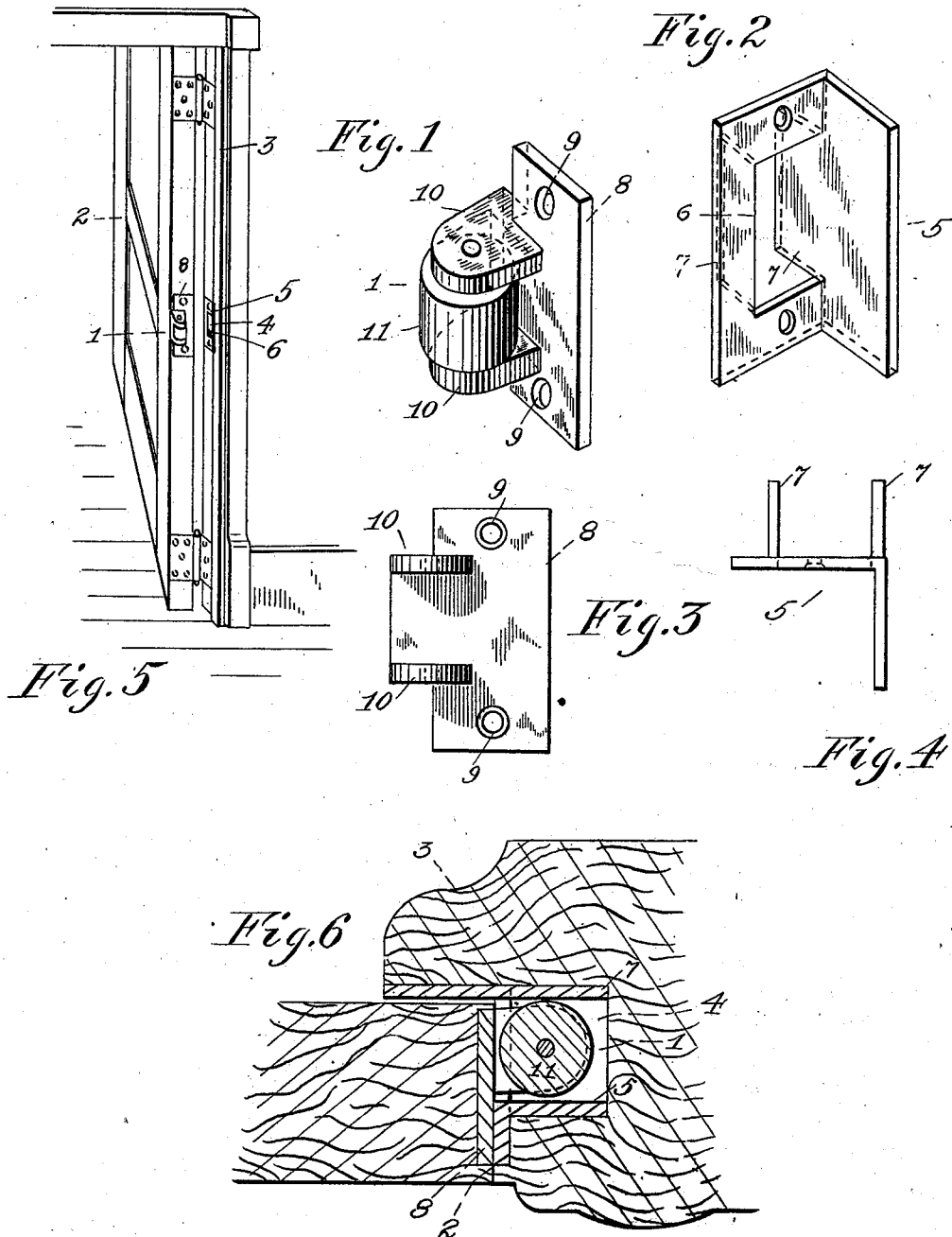


No. 698,052.

Patented Apr. 22, 1902.

W. N. G. PLACE.
GUIDING ATTACHMENT FOR DOORS.
(Application filed May 20, 1901.)

(No Model.)



WITNESSES:
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GUIDING ATTACHMENT FOR DOORS.

SPECIFICATION forming part of Letters Patent No. 698,052, dated April 22, 1902.

Application filed May 20, 1901. Serial No. 60,986. (No model.)

To all whom it may concern:

Be it known that I, WASHINGTON N. G. PLACE, a citizen of the United States of America, and a resident of the city of Seattle, in the county of King and State of Washington, have invented certain new and useful Improvements in Guiding Attachments for Doors, &c., of which the following is a specification.

My invention comprehends means for guiding the back edge of doors, shutters, covers, and the like to and from a seated position.

Among numerous objects attained by this invention and readily understood from the following description and accompanying drawing, forming a part thereof, is the prevention of chafing or binding of the back edges of doors or the like as opened and closed, avoidance of the necessity of a third hinge on large doors or shutters, and facilitation of the hanging of same.

With reference to the drawings filed herewith and bearing like characters of reference for corresponding parts throughout, Figure 1 is a perspective view of the guide member of the device as preferably embodied. Fig. 2 is a like view of the way. Fig. 3 is a front elevation of the guide with the nose or anti-friction-roller removed. Fig. 4 is a top edge view of way. Fig. 5 indicates said parts in relative position on a door and frame shown on reduced scale, and Fig. 6 is a horizontal transverse section of a portion of the back stile of a door and adjacent jamb with the guide and way indicated in like section and relative position when the door is closed.

Before proceeding to set up any preferred embodiment of this invention the utility of a device comprehended in the production will be briefly set forth in accordance with the defects now found in hangings for doors, shutters, covers, or the like and which as now constructed in no manner serve to guide the intermediate portion of the back edge of such closures. Therefore annoyance and expense are experienced by the closures binding and chafing in the jamb and rendering the back edges of doors especially unsightly when open by reason of the marred appearance caused by binding contact with the surface

of the rabbet of the jamb as the door is opened and closed.

The invention comprehends any suitable means for guiding the back edge of doors, shutters, covers, or the like at a point or points intermediate their hangings, so as to insure proper seating thereof in the rabbet of the supporting frame or jamb and clear same when moving to and from seated position, thereby preventing chafing and binding of the door and avoiding the necessity of trimming or dressing the door should the back edge become warped and also obviating the requirement of a third hinge.

As now considered, this invention comprises a guide, as 1, which is preferably suitably formed for attachment to the rear edge of the back stile of a door or the like, as 2, and in the present embodiment is secured intermediate the hangings thereof and is adapted to conveniently cooperate with the adjacent jamb, as 3, so as to guide the said edge to and from a proper seating as the door is opened and closed and also hold same in proper seated position. In the present instance the face of jamb 3 is conveniently provided with a recess, as 4, of suitable size to receive the guide and afford bearing-surfaces therefor to carry the door to and from place and hold it from binding in the rabbet of the jamb. To prolong the usefulness of this recess, a suitable metallic way, as 5, for the guide is incorporated and comprises a body formed with suitable surfaces adapted to relieve the wall of said recess from wear of the guide incidental to the opening and closing of the door. As now included, this way consists of plate metal brought to substantially L shape, so as to fit the rabbet of the jamb, and formed with an aperture 6 in one face to receive the guide and rearwardly-extending plates, as 7, disposed at opposite edges of the aperture and adapted to fit recess 4 and offer firm bearing-surfaces for the guide. This way is furthermore preferably made with suitable screw-holes, as shown, by which it is secured in place, and if preferred the rearwardly-extending plates 7 can be continued to form a completed hood, as readily understood.

In the present embodiment guide 1 is formed with a base-plate 8, of plate metal, having suitable screw-holes 9 for convenience in fastening the guide in place and suitable brackets, as 10, serving to support the nose of the guide, which, as now considered, consists of a suitable antifriction-roller, as 11, adapted to reduce friction of the guide on the plates 7 of the way and supported by a suitable axle carried by said brackets. As now constructed base-plate 8 is offset at one side edge to conveniently bring the nose of the guide slightly beyond the edge of the door which enters the corner of the rabbet of the jamb, while the main portion of said base rests substantially midway the back edges of the door and is preferably set into the surface, so as to bring the top of the base flush. The aperture 6 in the way is preferably rendered of sufficient length to compensate for irregularities in setting the guide and may be of any desired dimension, while the width thereof is substantially equal to the thickness of the nose or diameter of the roller forming same, Fig. 6, so as to engage either plate and insure proper seating of the rear edge of the door, irrespective of the way it may be warped.

In setting the guide on doors recently hung and true it is ordinarily placed at a point midway the top and bottom hangings or hinges and is likewise positioned relative to large doors and takes the place of a third hinge, though it is obvious that a plurality of guides may be used on a single door, if found necessary, by warping of the door causing it to bind in the rabbet of the jamb along the back edge at various points. Granting relative position of a guide and way on a door and jamb, respectively, Fig. 5, it will be readily understood that should the door be closed the nose of the guide will enter the way, and should the door be warped or improperly hung, so as to ordinarily bind against the surface of the rabbet at right angles to the face of the jamb, said nose will bear upon the respective plate 7 and force the door to spring to a proper seat along the rear edge. Likewise in opening the door the nose will find bearing to guide said edge free of the jamb, and thereby prevent chafing or binding. When setting the door, the guide serves to direct proper placing thereof in the frame and matching of the butts, and thereby facilitates the work.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. The combination with a swinging door or the like and jamb; of means to guide the rear edge of said door relatively to the jamb.

2. The combination with a door or the like and its jamb, of a guiding device having its members located on the jamb and rear edge of the door and coöperating with each other to direct said edge relatively to the jamb and prevent binding.

3. The combination with a door or the like and jamb; of a guide comprising a base fixed to the back stile of the door and carrying a rearwardly-projecting nose and a recess in the jamb arranged to receive and coact with said nose.

4. The combination with a door or the like and jamb; of a guide comprising a base fixed to the rear edge of said door and having a rearwardly-projecting nose, a recess in said jamb arranged to receive said guide and a way in the recess coöperating with said nose to direct said door edge relatively to the jamb.

5. The combination with a door or the like and the jamb; of a guide comprising a base fixed to the rear edge of said door, an antifriction-roller carried thereby and forming a rearwardly-projecting nose, a recess in said jamb arranged to receive the nose and a way in said recess having opposite bearing-surfaces coöperating with said roller to direct said door edge relatively to the jamb.

6. The combination with a door or the like and jamb, of a guide formed with a base adapted for attachment to the rear edge of a door or the like having brackets, a vertically-disposed roller axially supported thereby, and a substantially L-shaped way adapted for attachment to the jamb and formed with an aperture in one face and projecting bearing-surface at opposite edges thereof adapted for coöperative association with said roller to direct said door edge during primary opening and final closing movement thereof.

Signed at Seattle, Washington, this 26th day of April, 1901.

WASHINGTON N. G. PLACE.

Witnesses:

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