

No. 674,996.

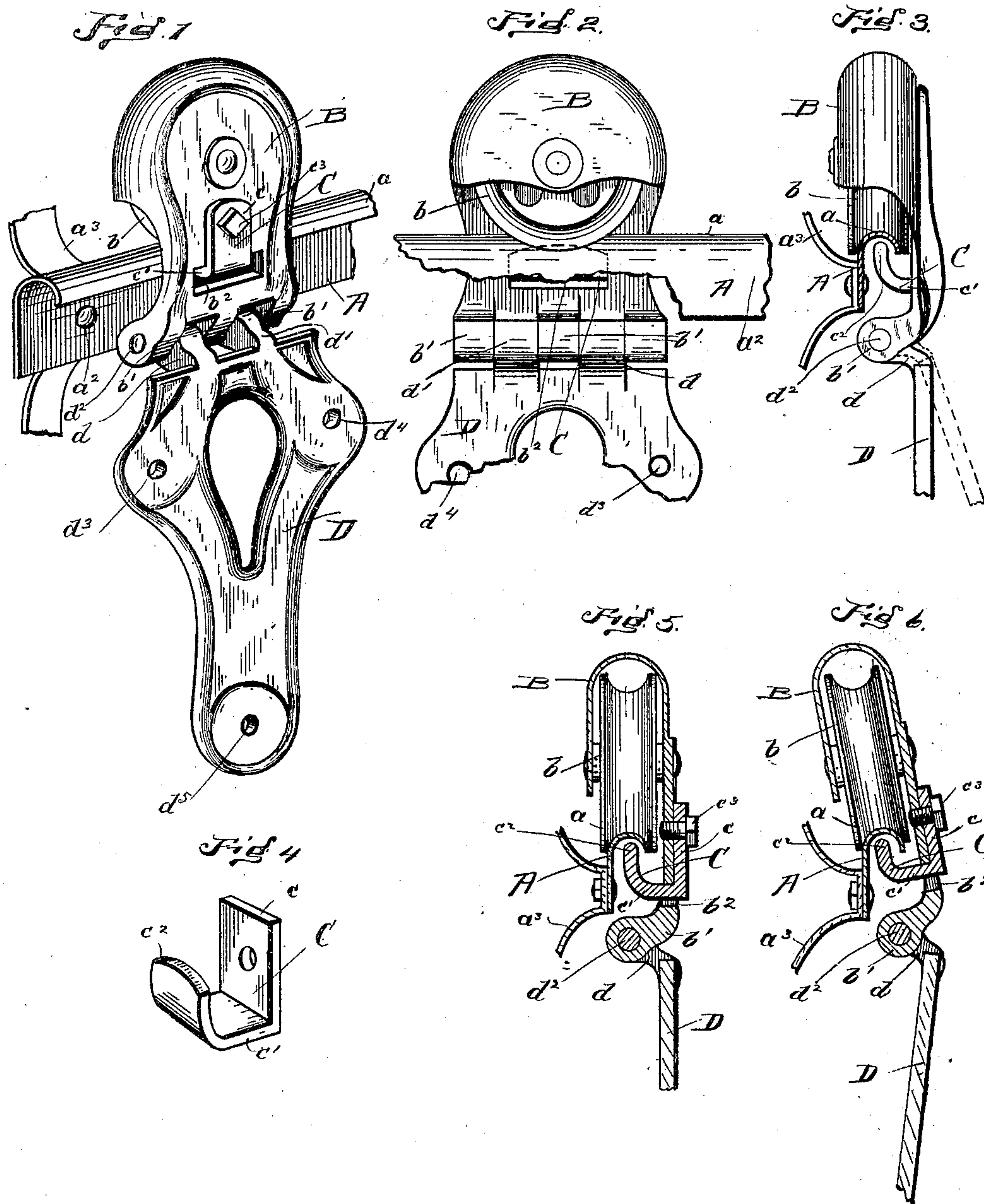
Patented May 28, 1901.

J. H. BURKHOLDER.

DOOR HANGER.

(Application filed Nov. 1, 1899.)

(No Model.)



Witnesses  
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# UNITED STATES PATENT OFFICE.

JOHN H. BURKHOLDER, OF ASHLAND, OHIO.

## DOOR-HANGER.

SPECIFICATION forming part of Letters Patent No. 674,996, dated May 28, 1901.

Application filed November 1, 1899. Serial No. 735,461. (No model.)

*To all whom it may concern:*

Be it known that I, JOHN H. BURKHOLDER, a citizen of the United States, residing at Ashland, in the county of Ashland and State of Ohio, have invented new and useful Improvements in Door-Hangers, of which the following is a specification.

My invention relates to improvements in door-hangers; and it consists in providing a wheel casing or hood having a hinged connection with a bracket in line with the center of the carrier-wheel and a track upon which the wheel is mounted, whereby the door may be supported and carried upon the track and at the same time may be swung out upon the hinged connection between the bracket and the wheel casing or hood, as will be hereinafter more fully described and claimed.

In the accompanying drawings similar letters of reference refer to similar parts.

Figure 1 is a perspective view of the door-hanger mounted upon the track. Fig. 2 is a rear view of the upper portion of the door-hanger. Fig. 3 is a side view thereof. Fig. 4 is a perspective view of the engaging hook, which is inserted through the casing and underneath the track to prevent derailment. Fig. 5 is a sectional view of the door-hanger and track. Fig. 6 is a similar view showing the casing or hood and the bracket tilted at different angles.

A represents the track, which consists of a piece of metal having vertical and horizontal flanges, the upper flange  $a$  being convex to adapt it to the form of the wheel. The lower flange  $a'$  is provided with perforations  $a^2$ , by means of which the track is securely bolted to brackets  $a^3$ , which are securely fastened to the supporting-timber or side of the barn. I have shown the track A having its upper flange convex; but it may be flat and have a depending flange on its outer edge or it may be V-shaped, the object being to provide the depending portion or overhanging portion of the track, under which shall pass the hook, which will be hereinafter described and which prevents the derailing of the hanger.

B represents the casing or hood, which has 50 journaled in its upper portion the carrier-

wheel  $b$ , having a curved rim to adapt it to the track A. The circumference of the wheel may be either flat or carry a circumferential V-shaped groove, depending upon the form of the track used. Upon the lower portion of the casing or hood B there is formed the hinged member  $b'$  and just above the hinged member  $b'$  I provide a slotted aperture  $b^2$ , through which there is inserted the retaining-hook C, which is L-shaped in form, the vertical part of which,  $c$ , has a screw-threaded opening corresponding with a like screw-threaded opening in the casing or hood. The horizontal part  $c'$  has formed upon it the upwardly-projecting flange  $c^2$ , which passes under the curvature of the track. The retaining-hook C is securely fastened to the casing by means of the screw-threaded bolt  $c^3$ , which passes through the screw-threaded aperture in the retaining-hook and the casing or hood, the object being to prevent the derailment of the hanger from the track.

While I have shown a convex track and a detachable hook, the track may be of ordinary flat iron supported by a bracket engaging the center of the track, thus forming a depending flange, and the retaining-hook may be cast integral with the casing without departing from the spirit of my invention.

D represents a bracket which constitutes the lower member of the door-hanger and may be of any desired shape and is adapted to be fastened to and support the door. Upon the upper portion thereof are provided the perforated projecting lugs  $d d'$ , adapted to be received by the hinged member  $b'$  of the casing or hood B and journaled therein by means of the pin  $d^2$ . Through the bracket D and at various points thereon there are provided the apertures  $d^3$ ,  $d^4$ , and  $d^5$ , through which the bracket is securely bolted or otherwise fastened to the door.

In operation, the track being securely fastened to the supporting-frame or side of the barn, the bracket D being bolted or otherwise fastened to the upper part of the door, the door is elevated until the wheel carried by the casing or hood rests upon the track. The retaining-hook is then inserted through the slotted aperture in the casing or hood and 100



securely engaged therewith by means of the retaining-bolt, when the door may be readily moved along the track.

If it is desired to elevate the lower end of the door for the purpose of permitting the passage of small objects or to convert the same into an awning, the hinged connection between the hood and the bracket permits this to be done without producing any additional strain upon the track.

Large doors, to which this class of door-hangers are adapted, are frequently subjected to blasts of wind, and where my form of door-hanger is used the lower portion of the door will swing out and accommodate itself thereto and again return to its normal position.

The bracket engaging the door being hinged to the casing on a line with the center of the carrier-wheel, all strain or twist upon the flanges of the wheel and the track is avoided and the weight is evenly balanced along the line of the center of the carrier and track.

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

1. The combination in a door-hanger, of a casing having journaled therein a carrier-wheel, with a retaining guard or hook near the lower end of the casing, and means for hing-

ing the door to the casing, on a line with the center of the carrier-wheel, substantially as described and for the purpose set forth.

2. The combination in a barn-door hanger, of a casing having journaled therein a carrier-wheel, a flanged track, a retaining-hook detachably engaging the lower end of the casing, the free end thereof passing through the casing and under the depending flange of the track, a bracket adapted to engage the door and having a hinged connection with the casing, on a line with the center of the carrier-wheel, substantially as described and for the purpose set forth.

3. The combination in a barn-door hanger, of a casing having journaled therein a carrier-wheel, with a detachable retaining-hook engaging the casing at the lower end thereof, the free end of which passes under the track, a bracket adapted to engage the door and hinge to the casing on a line with the center of the carrier-wheel, substantially as described and for the purpose set forth.

In testimony whereof I have hereunto set my hand in the presence of two subscribing witnesses.

JOHN H. BURKHOLDER.

Witnesses:

CHAS. R. MILLER,

CHAS. M. BALL.