No. 719,013. PATENTED JAN. 27, 1903.

G. S. KERR.

SWING.

APPLICATION FILED JUNE 4, 1902.

NO MODEL.

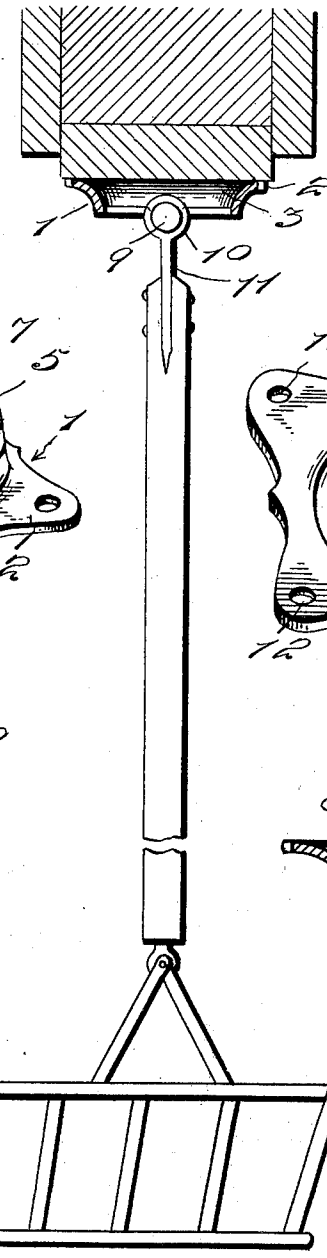


Fig. 5.

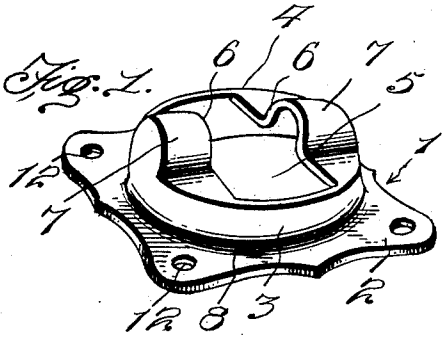


Fig. 1.

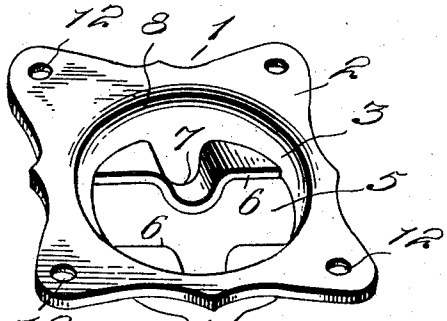


Fig. 2.

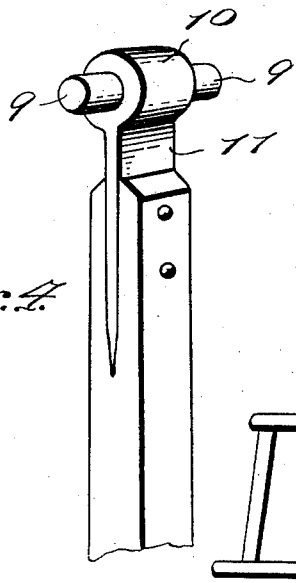


Fig. 4.

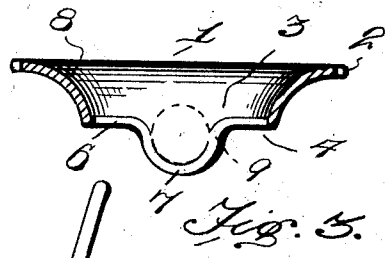


Fig. 3.

Witnesses
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UNITED STATES PATENT OFFICE.

GEORGE SMILEY KERR, OF NEW LONDON, PENNSYLVANIA.

SWING.

SPECIFICATION forming part of Letters Patent No. 719,013, dated January 27, 1903.

Application filed June 4, 1902. Serial No. 110,211. (No model.)

To all whom it may concern:

Be it known that I, GEORGE SMILEY KERR, a citizen of the United States, residing at New London, in the county of Chester and State of Pennsylvania, have invented a new and useful Swing, of which the following is a specification.

This invention relates generally to swings, and particularly to a novel form of hanger therefor.

The object of the invention is to provide a simple and effective form of swing-hanger adapted for suspending a swing from a door-frame or other overhead support, said hanger being constructed in such manner as to permit of ready connection with and disconnection therefrom of the swing-suspending bars and which shall in a positive manner prevent accidental disconnection of such bars in the use of the swing, thereby obviating accidents.

With these and other objects in view, as will appear as the nature of the invention is better understood, the same consists in the novel construction and combination of parts of a swing, as will be hereinafter fully described and claimed.

In the accompanying drawings, forming a part of this specification, and in which like numerals of reference indicate corresponding parts, there is illustrated one form of embodiment of the invention capable of carrying the same into practical operation, it being understood that the elements therein exhibited may be varied or changed as to shape, proportion, and exact manner of assemblage without departing from the spirit thereof, and in these drawings—

Figure 1 is a view in perspective taken from the under side of the hanger. Fig. 2 is a similar view taken from the upper side thereof. Fig. 3 is a view in transverse section taken through the hanger. Fig. 4 is a perspective view of the upper portion of one of the swing-suspending bars. Fig. 5 is a view in sectional elevation of a portion of the door-frame, showing the suspending-bar associated with the hanger.

Referring to the drawings, 1 designates the hanger, comprising an attaching-plate 2 and a socket 3, the bottom 4 of which is provided with a slot 5, the ledges 6, formed by the slot, being provided with alined depressed semi-circular seats 7 for a purpose that will presently appear. The plate 2 merges into a socket 3 on a curved line, as shown at 8, this arrangement being adopted in order to permit the hanger to be drop-forged, and thus to be cheaply produced and with the minimum of metal to present the maximum of strength.

The slot 5 extends from wall to wall of the socket and is designed to permit insertion therein of the trunnions 9, carried by a head 10, secured to the upper end of the suspending-bar 11, the trunnions being designed to fit within the seats 5 and being of a length to extend from wall to wall of the socket, thereby to prevent the head 10 from contacting with the walls of the slot. The seats are to be of a depth to house the major diameters of the trunnions to insure a stable coaction between the latter and the seats, and thereby reduce to a minimum any liability of the head becoming disengaged from the hanger; but should the trunnions jump out of the seats the ledges 6 will operate to prevent disconnection of the parts, as it will be seen that before this can take place the head would have to be turned at right angles to the position it occupies when in operative position. Moreover, the rounded shoulders of the seats where they merge into the ledges will operate to cause the trunnions automatically to reseat themselves. The hanger in this instance is provided at each corner with an opening 12, through which screws or bolts may be passed to attach it to its support.

In practice it is designed to make the hanger of ornamental character, so that when secured in place it will not be unsightly in appearance, and thus objectionable.

As before stated, it is desired that the hanger shall be so constructed as to permit of its being drop-forged, and for this purpose, as will be seen by reference to Fig. 3, the presentation of sharp corners in any of the interior portions thereof is avoided, thus permitting its manufacture by the procedure defined. Of course it is to be understood that the invention is not to be limited to a drop-forged structure, as it may be cast; but with the object in view of presenting a neat finished and strong and durable article it will generally be preferred to drop-forge it.

Having thus fully described my invention,

what I claim as new, and desire to secure by Letters Patent, is—

1. As a new article of manufacture, a swing-hanger comprising an attaching-plate having a centrally-disposed socket provided in its bottom with a slot and on each side of the slot with ledges having depressed seats, the socket merging into the plate on curved lines, substantially as and for the purpose specified.

2. In a swing, the combination with an attaching-plate having a socket provided with a slotted bottom and ledges on each side of the slot having depressed seats, of a swing-supporting bar having a head carrying trunnions to engage the seats, the trunnions being of a length to extend from wall to wall of the socket, thus to hold the head from engagement with the walls of the slot.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

GEORGE SMILEY KERR.

Witnesses:
C. E. DOYLE,
FRANK S. APPLEMAN.