T. E. JORDAN.

SWING.

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1,369,747. Patented Feb. 22, 1921.

Fig. 1.

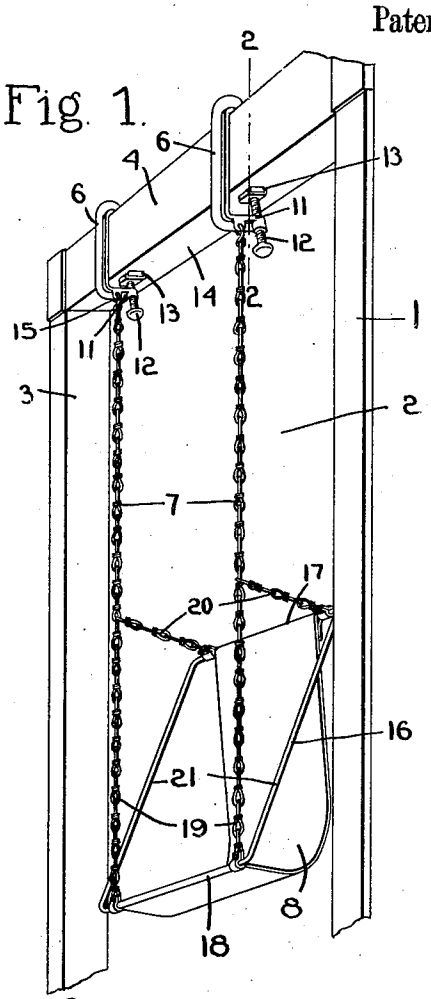
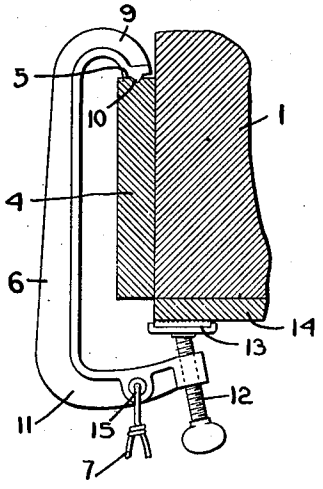


Fig. 2.



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UNITED STATES PATENT OFFICE.

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SWING.

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To all whom it may concern:

Be it known that I, THOMAS E. JORDAN, a citizen of the United States, residing at Malden, county of Middlesex, State of Massachusetts, have invented an Improvement in Swings, of which the following description, in connection with the accompanying drawing, is a specification, like characters on the drawing representing like parts.

This invention relates to swings and particularly to swings of that type which are designed to be hung up in the house.

One of the objects of the invention is to provide an improved swing of this type which is suspended from hangers that are adapted to be clamped to the top of the door frame without injuring the paint or varnish in any way, and also to provide a novel construction which enables the hangers to be anchored to the door frame so securely that they will not become loosened during the swinging operation.

Other objects of the invention are to improve swings of this type in other ways, all as will be more fully hereinafter set forth.

In order to give an understanding of my invention, I have illustrated in the drawings a selected embodiment thereof which will now be described, after which the novel features will be pointed out in the appended claims.

In the drawings, Figure 1 is a perspective view showing my improved swing in use and attached to the top of the door frame;

Fig. 2 is an enlarged sectional view on the line 2—2, Fig. 1, showing more clearly the character of the clamp device.

In the drawings, 1 indicates a wall structure having a door opening 2 therein which is surrounded by the usual door frame 3. Such door frames are usually provided at their upper sides with the finish-boards 4 on each side of the wall 1, said boards lying outside of the wall 1, and the upper edge 5 of the boards being free and exposed.

My improved swing comprises two hangers 6 adapted to be clamped to the top of the door frame, a flexible suspender 7 secured to each hanger, and a seat member 8 supported by the suspender 7.

The hangers 6 are of special construction designed so that they can be secured to the door frame without injuring the finish of the wood-work, and so that they will be held firmly in place even during violent swinging movements of the swing. The peculiar construction of these hangers is best seen in Fig. 2. Each hanger has at its upper end a relatively short arm 9 provided with a spur or beak 10 adapted to engage the upper edge 5 of the finish-board 4. Each hanger also has at its lower end a longer arm 11 which extends beneath the finish-board and part way through the door opening. This longer arm has at its end a clamping screw 12 which is screw-threaded therethrough, and the end of which engages a pad 13 having a rubber face that in turn engages the under face 14 of the door frame. This pad 13 will preferably have a metal back to engage the end of the screw. The suspender 7 is secured to the clamp at a point 15 inside of the clamping screw 12. The clamping screw 12 extends through the arm 11 in such a direction that the axis thereof if projected would intersect the beak or spur 10. When the hanger is applied to the door frame, the shorter arm 9 with its beak is placed on the top edge 5 of the finish-board, and the longer arm is inserted into the door opening beneath the face 14 of the door frame until the point of suspension 15 for the suspender comes vertically underneath the beak 10. When in this position the pad 13 will be situated some distance from the edge of the finish-board, and will bear against the face 14 inside of the finish-board. The tightening of the clamping screw draws the beak 10 firmly against the top edge 5 of the finish-board 4, and thus holds the hanger firmly in position.

Since the point of suspension 15 for the hangers is directly underneath the beak 10 any weight to which the hangers are subjected will come vertically on the upper arm and will have no tendency to twist the hanger out of place or release it from the door frame.

I find also from experience that owing to the inclined position of the clamping screw 12 the strains to which the hanger is subjected by the swinging movement of the suspenders when the swing is in use will not loosen the hold of the hanger upon the door frame. Hangers having this construction can be readily applied to any door frame without injuring or marring the latter, and they will be firmly retained in place during any ordinary use to which the swing is subjected. The engagement of the nose

or beak 10 into the top of the finish-board is no detriment because this top edge cannot be seen.

While any suitable seat may be employed, I prefer to use that shown in the drawings. This seat comprises a rectangular frame 16 and a flexible canvas member 8 secured at its ends to the top and bottom of the frame, as shown at 17 and 18, respectively. Each hanger 7 is provided with two branches, one branch 19 being connected to the bottom of the frame 16, and the other branch 20 being connected to the top of the frame 16. This provides not only a comfortable seat, but also a secure seat because when a child is occupying the seat, he is situated between the sides 21 of the frame and the latter assist in holding him in the seat.

While I have illustrated a selected embodiment of my invention, yet I do not wish to be limited to the constructional features shown.

I claim:

1. In a swing, the combination with two hangers, each having at its upper end a short arm provided with a nose to engage the top edge of a finish-board at the top of a doorway and at its lower end a longer arm to extend into the doorway, a flexible suspender secured to each longer arm in vertical line with the nose when the hanger is in place, a clamping screw screw-threaded through the end of each longer arm beyond the flexible connection, each clamping screw having its axis directed toward the nose of the hanger, and a seat supported by said suspenders.

2. In a swing, the combination with two hangers, each having at its upper end a short arm to overlie the top edge of the finish-board of a door frame and provided with a spur to engage said edge and at its lower end a longer arm extending into the doorway, of a clamping screw screw-threaded through each longer arm and situated well within the doorway, the axis of each clamping screw being directed toward the beak or nose, a pad interposed between the end of each clamping screw and the under face of the top of the door frame, a flexible suspender secured to the longer arm of each hanger between the clamping screw and the body thereof and vertically beneath the beak or nose, and a seat sustained by said suspenders.

3. In a swing, the combination with two hangers, each having at its upper end a short arm to overlie the top edge of the finish-board of a door frame and provided with a spur to engage said edge and at its lower end a longer arm extending into the doorway, of a clamping screw screw-threaded through each longer arm and situated well within the doorway, the axis of each clamping screw being directed toward the beak or nose, a pad interposed between the end of each clamping screw and the under face of the top of the door frame, a flexible suspender secured to the longer arm of each hanger between the clamping screw and the body thereof and vertically beneath the beak or nose, the lower end of each flexible suspender having two branches, a rectangular frame having its opposite end secured to said brackets, and a flexible seat member supported by said ends of the frame.

In testimony whereof, I have signed my name to this specification.

THOMAS E. JORDAN.