L. J. LOFFI.

COMBINATION SWING AND HIGH CHAIR.

APPLICATION FILED MAY 1, 1920.

1,377,422. Patented May 10, 1921.

Fig. 1.

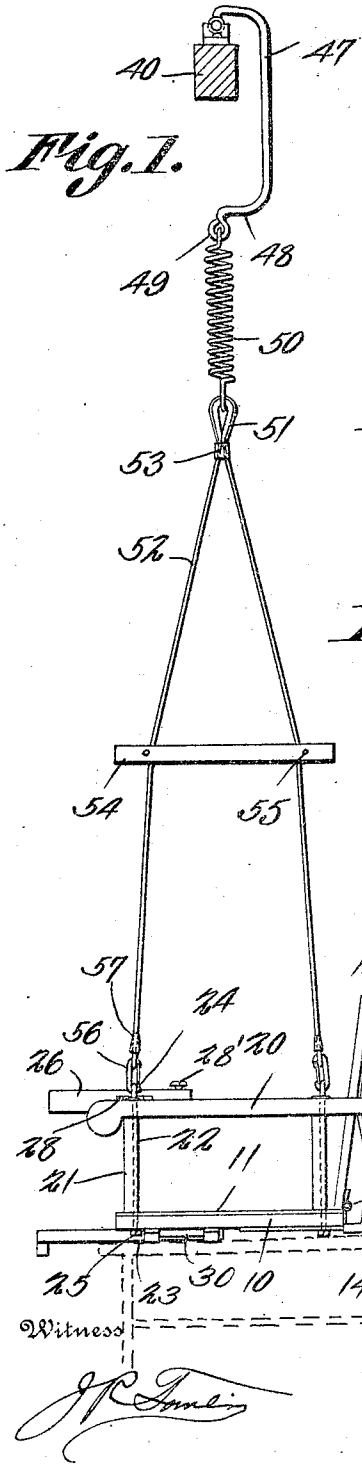


Fig. 2.

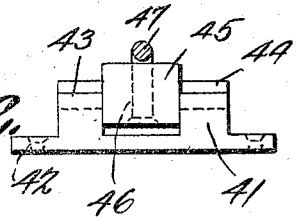


Fig. 3.

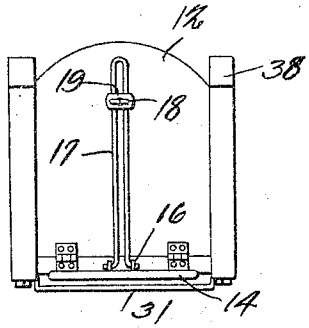


Fig. 4.

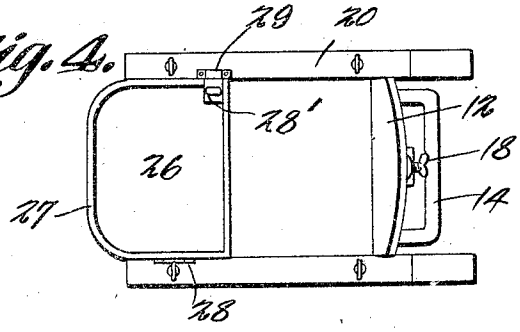
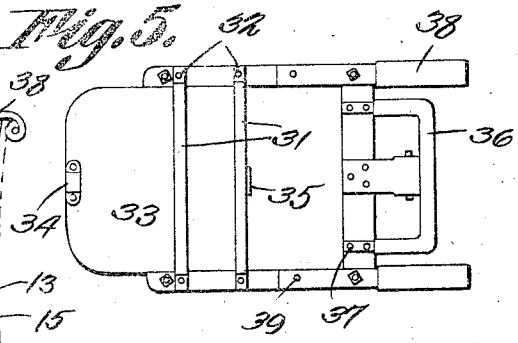


Fig. 5.



Witness

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COMBINATION SWING AND HIGH CHAIR.

1,377,422. Specification of Letters Patent. Patented May 10, 1921.

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To all whom it may concern:

Be it known that I, LEONARD J. LOFFI, a citizen of the United States, residing at Fort Wayne, in the county of Allen and State of Indiana, have invented a new and useful Combination Swing and High Chair, of which the following is a specification.

This invention relates to an improved combination swing and high chair or baby jumper, and the object thereof is to provide improved means for supporting the device from the top of a door frame so as to simplify the structure and render it strong and durable, as well as to provide a seat which is adapted to be applied to the back of a chair, so that the device can be converted from a swing or jumper into a high chair quickly and conveniently.

A further object of the invention is to provide a chair which may be used to support the infant or child in a sitting position or in a reclining position in the manner of a crib or bed, and which is provided with means to support or rest the legs, while the supporting arrangement for the chair when used as a swing or jumper, is so constructed as to prevent the parts from coming loose or wearing out quickly.

With the above and other objects in view which will appear as the description proceeds, the invention resides in the combination and arrangement of parts and in the details of construction hereinafter described and claimed, it being understood that within the scope of what is claimed, changes in the precise embodiment of the invention shown can be made without departing from the spirit of the invention.

In the accompanying drawings:

Figure 1 is a side elevation of my improved combination swing or baby jumper and high chair;

Fig. 2 is a detailed sectional elevation of the bearing for the device;

Fig. 3 is a rear elevation of the chair;

Fig. 4 is a plan view of the chair; and

Fig. 5 is a bottom view of the chair.

Referring to the drawings in detail, in which like reference characters designate corresponding parts throughout the several views, my improved combination swing or baby jumper and high chair, is shown as comprising a chair proper including a seat frame 10 to which a chair bottom 11 is applied, said frame being jointed and having hinged thereto, a back 12, as shown at 13, so that the same may be disposed in a vertical position or in a reclining position. For this purpose, a rearwardly extending bracket 14 is secured to the rear portion of the seat frame and the strip of sheet metal forming the same at its sides bent upwardly to form apertured ears 15 receiving the outwardly extended lower ends 16 of an inverted U-shaped angular brace 17, the lower portion of which extends rearwardly and the upper portion of which extends in conformity with the back of the chair and is engaged between the jaws of a clamp 18 so that the back may be held in any desired adjusted position by means of a clamping screw 19. The arm rests are indicated at 20, and are made sufficiently wide for comfort as well as connected to the button through the medium of rungs 21, two being disposed at each side and grooved vertically as indicated at 22 to receive vertical connecting bolts 23 serving as means to connect the arms to the seat frame.

These bolts are formed with eyes 24 on their upper ends and have nuts 25 engaged on their lower ends, so that the parts can be readily assembled and so that the same will be prevented from pulling loose or separating. The eyes are adapted for suspending the chair as a swing or baby jumper as will be hereinafter described. At the front portion, there is provided a tray 26 having a flanged rim 27 and which is hinged at one side, as indicated at 28 so as to swing vertically and outwardly of the adjacent arm 20, the opposite side having a spring catch 28 adapted to coöperate with a keeper 29 carried by the opposite arm 20, in order that the tray may be held in position to retain the child against falling out, as well as to support particles of food or toys of such character that may rest on the tray or table.

A foot board or leg rest is provided beneath the seat, and for this purpose, the sides of the seat frame are provided with projections 30 at either side, adjacent to the front portion thereof, forwardly and rearwardly of which guides in the form of strap irons 31 are secured at their upwardly offset ends as shown at 32. These guides are adapted to receive the board 33 which is slidably retained therein parallel to and beneath the seat so as to be housed beneath the latter when not in use or projected out-

wardly when in use. For this purpose, the board 33 is provided with a handle or hand grip 34 beneath its forward portion by which it may be drawn out and the rear edge of the board is provided with a bracket 35 serving as a brace to retain the board in a proper position by engagement with the bottom of the chair bottom, or seat, and to guide the same during its movement.

In order to adapt the device to engage the back of a chair for use as a high chair, a U-shaped brace arm 36 is secured beneath the rear portion of the seat frame as shown at 37 and projects rearwardly at its bight portion, where it is covered with leather, rubber, felt or wool for engagement with the back panel of the chair in order to prevent injury thereto, as well as brace the device in position, as shown in Fig. 1 of the drawings. A pair of steel spring hooks 38 are arranged at the rear of the arms and comprise flat sections of spring metal or steel fastened beneath the sides of the seat frame by means of the rear eye bolts connecting the seat and arms and additional fastening screws or the like 39 giving added strength. These strips extend upwardly and are secured to the rear end of the arms 20 while the upper ends thereof are formed with rearwardly and downwardly curved hooks adapted to engage the back of the chair and in conjunction with the brace 36, to effectively support the chair in position for use as a high chair. These strips are also covered with suitable soft material as is the brace 36, to prevent marring or injury to the chair to which the device is applied.

In order to use the device as a swing or baby jumper, and particularly to suspend the same from the top of a door frame at the portion exposed from the wall, there is applied to the said top portion designated at 40, a bearing 41 the base portion of which is provided adjacent to the ends and intermediate portion thereof with apertures 42 for receiving fastening screws to secure the same to said top portion of the door frame. The spaced portions 43 of the bearing project upwardly and are provided with concaved recesses in the top faces thereof receiving the reduced pivot ends 44 of a cylindrical pivot block 45 diametrically of which the overhanging and depending end 46 of a hook 47 is anchored or secured. This hook is offset away from the wall and frame and the lower end thereof extends beneath the frame as shown at 48 and terminates in a closed eye or hook 49 engaged with the upper end of a helical spring 50 of suitable strength.

The lower end of the spring is adapted to engage a cable eye 51 of metal, and over which the intermediate portions of two lengths of cable designated at 52 are engaged and anchored as by means of a sleeve 53. These cables or hooks extend downwardly in divergent relation and pass through a ring 54, the latter being provided with apertures therethrough for this purpose and the cables or ropes being anchored to the ring as by means of nails or the like 55, the ring being painted at the front with the word "Baby" so as to designate the front portion thereof to permit convenient assembling. The lower ends of the ropes extend downwardly and are connected to snap hooks 56 for engagement with the eyes 24 in order that the chair will be supported. In connecting the hooks to the ropes, the ends of the rope are looped or passed through the hook and engaged by ferrules 57 corresponding to the ferrule or fastening means 53 adjacent to the cable eye 51, thus obviating the necessity of employing tape, wire or other fastening means for anchoring the parts against slipping as well as providing connections which obviate the possibility of wear on the ropes. Also, by employing the sleeve or ferrules 57, the parts are prevented from pulling loose as said ferrules are provided with tapered bores and the tighter the rope is drawn, the tighter it is locked in the handle or ferrule, thus obviating the necessity of using dangerous knots and loops, although the cables may be wired below the cable eye and covered with tape, if desired. It is also obvious that the bearing block may be readily lifted out of the bearing in order to take the device down, but will not pull out or become displaced, nor will the same readily wear out. The bearing does not interfere with the door nor scratch nor mar the woodwork.

Having thus described the invention what I claim is:

1. A combination baby-jumper and high-chair comprising a seat; arms; rungs between the arms and the seat; securing devices connecting the arms and the seat, the rungs having grooves receiving the securing devices; a tray at the forward ends of the arms and mounted for opening and closing movement; a back hinged to the seat; a rearwardly projecting bracket carried by the seat and comprising side members extended upwardly and provided with apertures; an inverted U-shaped brace having outwardly extended portions pivoted in the apertures, the brace comprising upper and lower portions disposed at an angle to each other, the upper of said portions conforming to the back; a clamping device carried by the back and engaging the brace, the clamping device including a part located within the brace; and a suspension means engaged with the securing device.

2. A combination baby-jumper and high-chair comprising a seat; arms; rungs between the seat and the arms; securing devices connecting the arms and the seat; a tray

hingedly mounted at the forward ends of the arms; means for securing the tray in position to span the space between the arms; an adjustable back disposed between the rear portions of the arms; guides beneath the seat; a foot-piece slidable in the guides and provided with a brace engaging the seat; strips secured beneath the seat and retained by certain of the securing devices, the strips being rearwardly and upwardly extended and terminating in suspending hooks adapted to engage a chair-back; and a brace secured to the seat between the strips and cooperating with the back to facilitate the use of the structure as a high chair.

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

LEONARD J. LOFFI.

Witnesses:

FRED. H. POWERS,

HELEN GIDLEN.