

Sept. 21, 1926.

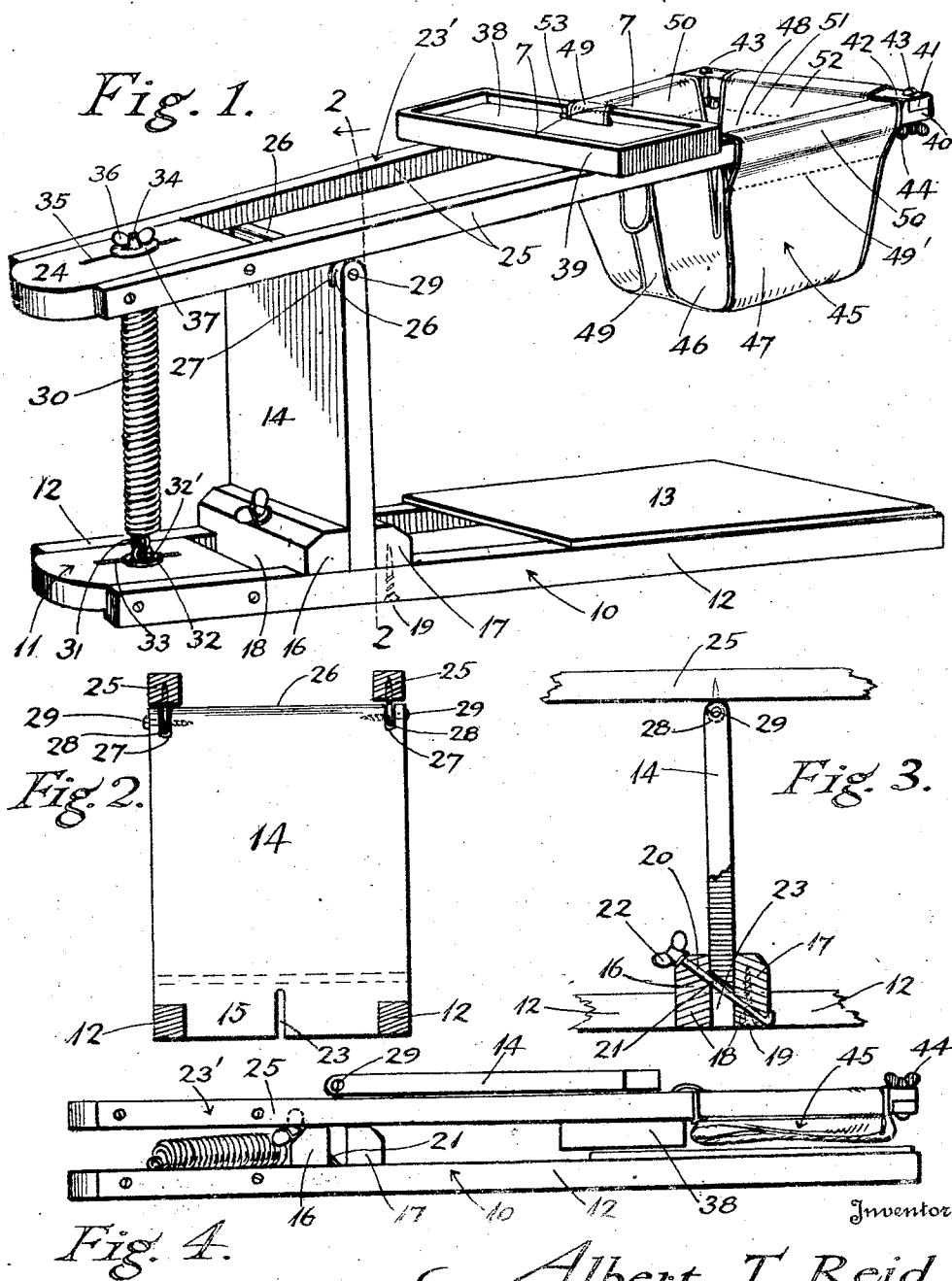
1,600,362

A. T. REID

BABY JUMPER

Filed Nov. 4, 1924

2 Sheets-Sheet 1



Albert T. Reid

By B. D. [Signature]

Attorney

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2 Sheets-Sheet 2

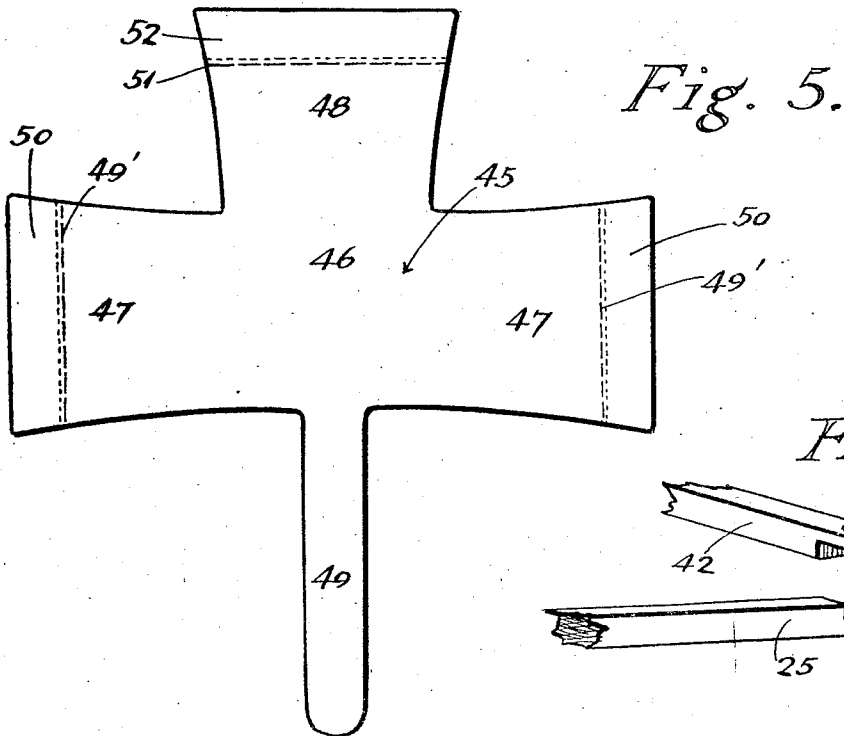


Fig. 5.

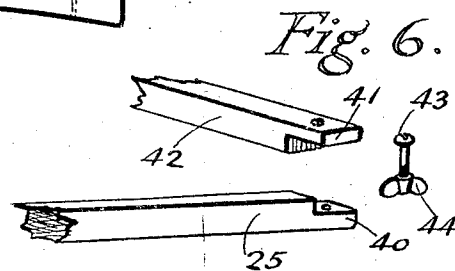


Fig. 6.

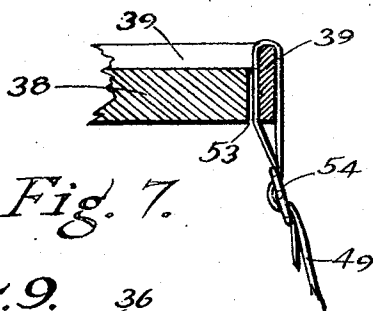


Fig. 7.

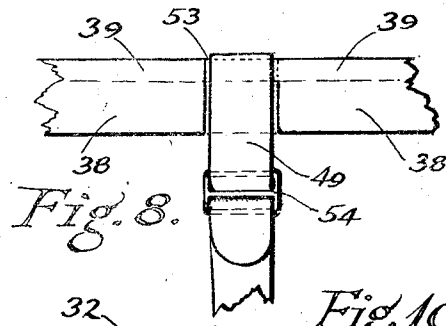


Fig. 8.

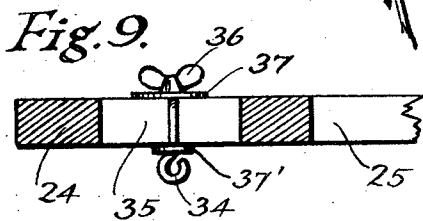


Fig. 9.

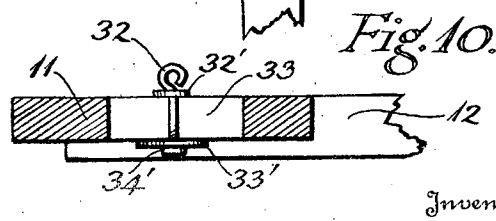


Fig. 10.

Inventor

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UNITED STATES PATENT OFFICE.

ALBERT T. REID, OF LEAVENWORTH, KANSAS.

BABY JUMPER.

Application filed November 4, 1924. Serial No. 747,873.

My invention relates to improvements in baby jumpers, of the type shown in my United States Letters Patent No. 1,458,077, granted to me under date of June 5th, 1923.

5 An important object of the invention is to simplify the construction of the device, thereby reducing the cost of its manufacture, and making the same commercially successful.

10 A further object of the invention is to provide a device of the above mentioned character, having its principal parts readily separable, and adapted to be assembled without the employment of tools, such as screw drivers or the like.

15 A further object of the invention is to provide means whereby the seat may be secured to the movable frame, in a manner to permit of its convenient removal, for the purpose of washing the same or the like.

20 A further object of the invention is to provide a device of the above mentioned character, which is neat and attractive in appearance, and convenient to be used and handled by the ordinary housewife.

25 A further object of the invention is to provide a device of the above mentioned character, which while extremely simple in construction, is unusually strong and durable.

30 Other objects and advantages of the invention will be apparent during the course of the following description.

35 In the accompanying drawings forming a part of this specification, and in which like numerals are employed to designate like parts throughout the same,

40 Figure 1 is a perspective view of a baby jumper embodying my invention,

Figure 2 is a transverse vertical section taken on line 2—2 of Figure 1,

Figure 3 is a fragmentary side elevation of the device, parts shown in central vertical section,

45 Figure 4 is a side elevation of the parts of the device, collapsed for shipment or carrying,

Figure 5 is a plan view of the blank forming the seat,

50 Figure 6 is a perspective view of the seat frame member, separated,

Figure 7 is a detailed section taken through the tray, on line 7—7 of Figure 1,

Figure 8 is a side elevation of the strap included in the seat member, 55

Figure 9 is a central longitudinal section through the block of the upper swinging member, and,

Figure 10 is a similar view through the block of the lower frame or base member. 60

In the drawings, wherein for the purpose of illustration is shown a preferred embodiment of my invention, the numeral 10 designates a base member or frame which is preferably formed of wood, with a solid portion or block 11 at one end, carrying spaced longitudinal bars or beams 12 secured thereto by screws or the like. These arms project downwardly below the block 11, to suitably elevate the same. A floor or platform 13 is arranged upon the upper faces of the longitudinal beams 12 and is secured thereto by any suitable means. 65 70

The numeral 14 designates a vertical standard or support, mounted upon the base member near and spaced from its forward end. The standard 14 is securely arranged upon the base member and is provided at its lower end with a reduced extension or tongue 15, fitting within the opening between the beams 12, as shown. The numerals 16 and 17 designate transverse brace members or blocks having depending tongues 18, fitting snugly within the openings between the beams 12. The base member or block 17 is permanently attached to the beams 12 by screws 19, passing upwardly through the beams 12. The companion brace member 16 has a diagonal opening 20, formed therein, for receiving a bolt 21, equipped with a wing or thumb nut 22. This clamping bolt 21 is held within a diagonal opening formed in the clamping member or block 17. The clamping bolt 21 passes through a vertical slot 23, formed in the lower end of the standard 14. The standard 14 is mounted between the base members or blocks 16 and 17, and it is obvious that when the wing nut 22 is screwed up upon its bolt, that a powerful clamping action is obtained, whereby the standard is securely and rigidly fastened to the base member or frame. By unscrewing the wing nut, the brace member 16 may be shifted slightly from the companion brace member 17 and the standard released, so that it may 75 80 85 90 95 100 105

be separated from the base member or frame. The standard 14 is in the form of a wide flat plank, board, or strip, and hence it has flat faces, engaging the blocks 16 and 17, whereby the engaging surfaces are large.

The numeral 23' designates a swinging member or frame as a whole, preferably formed of wood, embodying a solid forward portion or block 24, carrying longitudinal beams or arms 25, secured thereto by screws or the like, and extending from the opposite sides thereof, in spaced relation. The forward portions of the beams or arms 25 are arranged upon the upper rounded end 26 of the standard 14, and this upper rounded end has vertical slots 27, receiving screw-eyes 28, attached to the beams 25, and depending therefrom. Pivot elements 29 are passed through the upper end portions of the standard and through the screw-eyes. It is preferred that this pivotal connection between the standard and the upper swinging member be permanent, and the standard may be folded flat upon the swinging member or frame 23, as clearly illustrated in Figure 4, when the parts of the device are collapsed.

The numeral 30 designates a suitably stiff retractile coil spring, the lower end of which is looped, as shown at 31, and preferably has detachable engagement with the upper end of an eye-bolt 32, mounted within a longitudinal slot 33, formed in the solid end or portion 11. The eye-bolt carries washers 32' and 33' and a nut 34' as shown. The eye-bolt may be adjusted longitudinally within the slot 33 and locked therein in a selected adjusted position. The upper end of the spring is suitably detachably connected with a bolt 34, arranged within a longitudinal slot 35, formed in the block or solid portion 24 of the upper member or frame. This bolt 34 carried washers 37 and 37' and a wing nut 36, and may be adjusted longitudinally within its slot and locked in a selected position. By turning the wing nut 36 the tension of the spring 30 may be varied and the effective action of the spring may also be varied, by shifting it toward or from the standard 14, which is rendered possible by the use of the slots 33 and 35, and associated elements.

The beams 25 are spaced sufficiently whereby a child may be positioned therebetween, and a tray 38 is preferably permanently mounted upon the upper sides of the beams 25, at points near and spaced from their rear ends. This tray is preferably equipped with an upstanding flange 39. The rear ends of the beams 25 have reduced extensions or tongues 40, for engagement with reduced extensions or tongues 41, of a transverse bar 42. These parts are detachably held together by bolts 43, carrying wing nuts 44.

The numeral 45 designates a blank as a whole, from which the seat is formed. This blank may be made of canvas, leather, or any other suitable flexible material. The blank embodies a central portion 46, side portions 47, a back portion 48, and a forward relatively narrow tongue or strip 49. The side portions have their free ends turned over and stitched as shown at 49', providing hems 50. The back portion 48 has its free end turned over and stitched at 51, providing a hem 52. This I regard as an important feature of the invention, in combination with the structure of the swinging frame, as it permits of the ready removal of the seat, when desired. It is preferred to employ a seat of this character, but the invention is not necessarily restricted to this type of seat, as other forms of seats may be employed, with some degree of success.

In applying the seat to the supporting frame, the transverse bar 42 is removed and the hems 50 passed upon the rear ends of the bars or arms 25. The transverse strip or bar 42 is now passed into the hem 52, and the tongues 40 and 41 are secured together by the bolts 43. The tongue 49 of the seat is now passed through a vertical opening or slot 53, formed in the rear portion of the bottom of the tray 38, adjacent to the rear flange 39. The tongue is passed downwardly and the overlapping portions of the tongue are passed through a flat buckle 54. I prefer to employ a flat buckle of the slide type, as it may be readily adjusted and as it is safer to use with children. The invention is of course in no sense restricted to the use of this particular buckle as the adjacent portions of the tongue may be connected by any other suitable means.

In the use of the jumper, the child is seated within the seat, and his legs pass forwardly upon opposite sides of the approximately vertical tongue 49. The child engages the platform 14 with his feet, and swings the upper member or frame upon its pivot. The tension of the spring may be so adjusted with respect to the weight of the child, that a slight effort on the part of the child will produce the desired swinging movement. The device is very attractive and amusing to children.

When the device is collapsed, as indicated in Figure 4, the upper swinging member is preferably inverted, whereby the tray 38 is positioned upon the base member, and the standard 14 is folded flat upon the upper surface of the swinging member. The blocks 16 and 17 afford a suitable space for the spring 30, tray 38, and collapsed seat 45.

It is to be understood that the form of my invention herewith shown and described, is to be taken as a preferred example of the same, and that various changes in the shape, size, and arrangement of parts may

be resorted to without departing from the spirit of my invention or the scope of the subjoined claims.

Having thus described my invention, I claim:

1. A baby jumper of the character described comprising a base, a brace element attached to the base, a companion brace element mounted upon the base in spaced relation from the first named brace element, a standard arranged between the brace elements, means for drawing one brace element toward the other for effecting clamping engagement between the brace elements and the standard, a swinging member hinged to the standard, and yielding means to oppose the movement of the swinging member in one direction.

2. A baby jumper of the character described comprising, a base, a brace element extending transversely of the base and rigidly attached to the base, a companion brace element extending transversely of the base, a standard having its lower end mounted upon the base and arranged between the transverse brace elements, adjustable means for clamping the brace elements to the opposite sides of the standard, a swinging member hinged to the upper portion of the standard, yielding means to oppose the movement of the swinging member in one direction, and a seat carried by the swinging member.

3. A baby jumper of the character described comprising, a base having an opening, a brace element permanently attached to the base and extending across the opening thereof and having a portion projecting into such opening, a movable companion brace element extending across such opening and having a portion projecting into the same, adjustable means to draw the movable brace element toward the stationary base element, a standard arranged upon the base between the brace elements and having a portion projecting into the opening of the base, a swinging member pivotally supported by the standard, yielding means to oppose the movement of the swinging member in one direction, and a seat carried by the swinging member.

4. A baby jumper of the character described, comprising a base, a standard connected therewith, a swinging member pivotally mounted upon the standard and embodying a pair of spaced arms, a strip connecting the rear ends of the arms, a tray arranged transversely of the arms in advance of said strip and secured to said arms, said tray having an opening formed therein, a flexible seat detachably mounted upon said

arms and strip and having a forwardly extending tongue for insertion within the opening of said tray, and detachable means for retaining the tongue within the opening of said tray.

5. A baby jumper of the character described, comprising a base, a standard connected therewith, a swinging member pivotally mounted upon the standard and embodying a pair of spaced arms, a strip detachably connected with the rear ends of the arms, a tray arranged transversely of the arms in advance of the said strip, and secured thereto, said tray having an opening formed therein, a flexible seat embodying side parts, a back part, and a forward tongue, said side parts having hems to receive the said arms, said back part having a hem to receive said strip, said tongue being adapted to be passed through the opening in the tray, and means for retaining the tongue within the opening of the tray.

6. A baby jumper comprising a base member, a transverse clamping block secured to the base member between its ends and projecting above the same, a standard adapted to be arranged in engagement with one side of the block, releasable means to clamp the standard to the block, an upper swinging member pivotally supported by the standard, a collapsible seat carried by the upper swinging member and depending therebelow, a tray mounted upon the swinging member in advance of the seat and projecting above the swinging member, and a spring arranged upon one side of the standard and having connection with the base member and upper swinging member and adapted to be separated from the swinging member, the clamping block providing a suitable space for receiving the spring and tray when the parts are collapsed and the upper swinging member inverted and arranged upon the base member.

7. A baby jumper of the character described, comprising a base, a standard connected therewith, a swinging member pivotally mounted upon the standard and embodying a pair of spaced arms, a tray arranged transversely of the arms and secured thereto and having an opening formed therein, a flexible seat embodying side parts and a forward tongue, said side parts having hems to receive said arms, said tongue being adapted to be passed through opening in the tray, and means for retaining the tongue within the opening of the tray.

In testimony whereof I affix my signature.

ALBERT T. REID.