No. 775,133. PATENTED NOV. 15, 1904.

R. GAINES.

BABY JUMPER.

APPLICATION FILED AUG. 4, 1904.

NO MODEL.

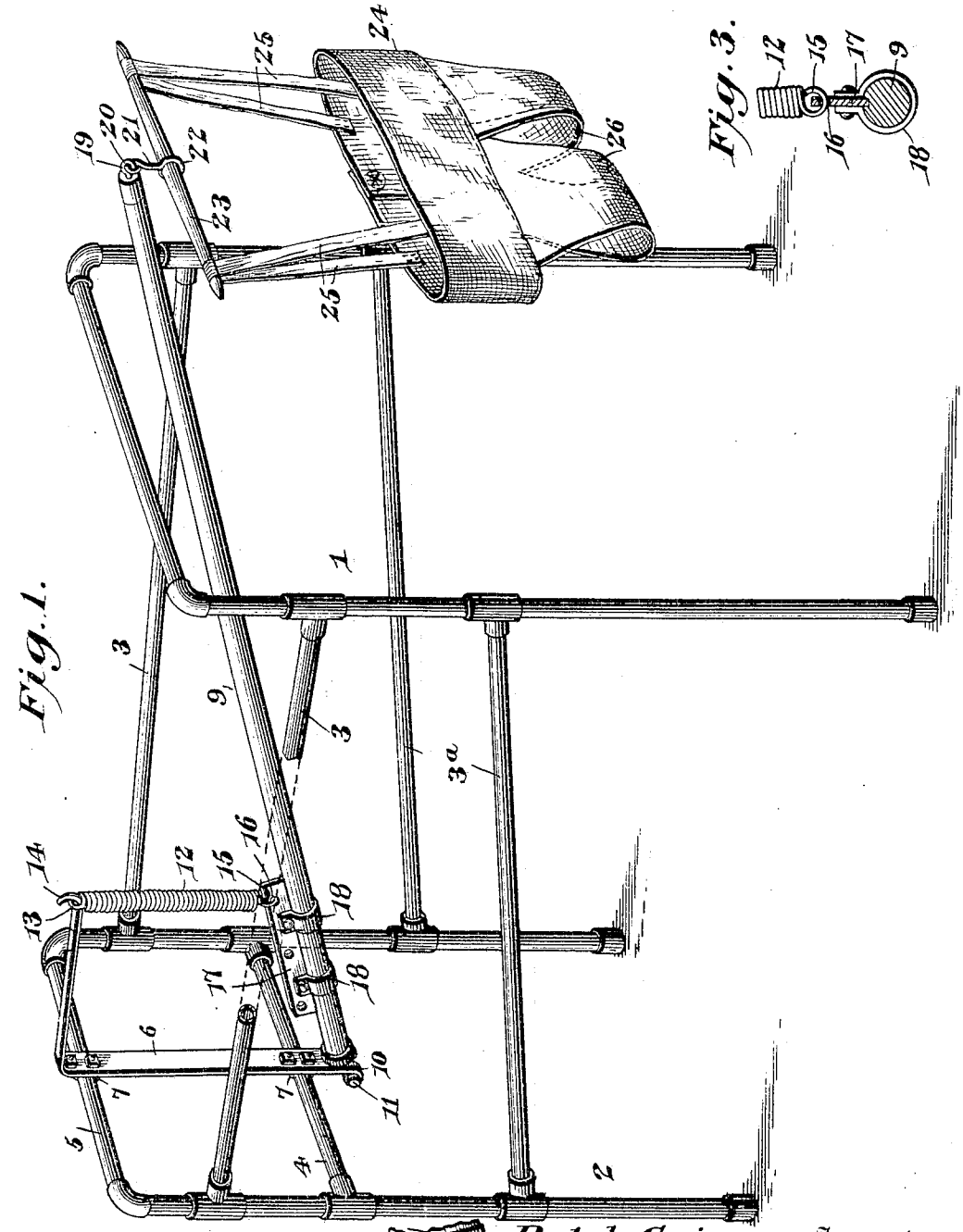


Fig. 1.

Fig. 3.

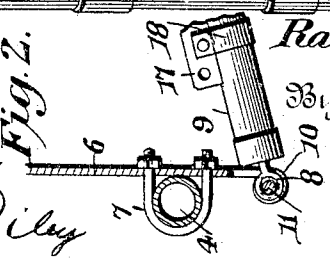


Fig. 2.

Witnesses

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No. 775,133. Patented November 15, 1904.

UNITED STATES PATENT OFFICE.

RALPH GAINES, OF METCALF, ILLINOIS.

BABY-JUMPER.

SPECIFICATION forming part of Letters Patent No. 775,133, dated November 15, 1904.

Application filed August 4, 1904. Serial No. 219,522. (No model.)

To all whom it may concern:

Be it known that I, RALPH GAINES, a citizen of the United States, residing at Metcalf, in the county of Edgar and State of Illinois, have invented a new and useful Baby-Jumper, of which the following is a specification.

The invention relates to improvements in baby-jumpers.

The object of the present invention is to improve the construction of baby-jumpers and to provide a simple and comparatively inexpensive one of great strength and durability adapted to permit the free use of the limbs and capable of supporting the body of a child.

A further object of the invention is to provide a baby-jumper capable of adjustment to arrange the feet of a child in proper position with relation to the floor and also to vary the tension of the spring to suit the weight of the child.

Another object of the invention is to provide a device of this character which will also be adapted to be applied to a window-casing, door-casing, or other fixed support.

With these and other objects in view the invention consists in the construction and novel combination and arrangement of parts, hereinafter fully described, illustrated in the accompanying drawings, and pointed out in the claims hereto appended, it being understood that various changes in the form, proportion, size, and minor details of construction within the scope of the claims may be resorted to without departing from the spirit or sacrificing any of the advantages of the invention.

In the drawings, Figure 1 is a perspective view of a baby-jumper constructed in accordance with this invention. Fig. 2 is a detail sectional view of the lower portion of the bracket, illustrating the manner of mounting the same and the inner end of the lever. Fig. 3 is a detail sectional view illustrating the manner of connecting the lever.

Like numerals of reference designate corresponding parts in all the figures of the drawings.

1 and 2 designate a pair of similar arched end frames of a support, the said end frames being preferably constructed of tubular metal and consisting of vertical sides and connecting top portions secured to the sides by suitable couplings. The end frames are connected near their connecting top portions by upper side bars 3, also preferably constructed of tubular metal and connected with the sides of the end frames by couplings, as shown. Lower side bars 3^a may also be employed, if desired. The rear end frame is provided with a transverse connecting-bar 4, arranged below the top connecting-bar 5 and adapted to receive the lower portion of a transverse L-shaped bracket 6, which is secured by clips 7 to the transverse bars of the rear frame 2. Instead of constructing the support of tubular metal flat metal or angle-bars or the like may be employed to secure the necessary strength and the desired lightness.

The L-shaped bracket 6 is composed of a vertical portion and a forwardly-extending horizontal arm arranged at the top of the vertical portion, which has its lower end bifurcated to receive an eye 8 of an oscillatory lever 9. The bracket is provided at opposite sides of the bifurcation with eyes 10 for the reception of a pintle 11, which also passes through the eye 8 of the lever, whereby the lever is hinged to the bracket.

The lever is connected with the forwardly-extending arm of the bracket by means of a coiled spring 12, provided at its upper end with an eye 13, which engages the front end 14 of the arm of the bracket. The front end 14 is bent upwardly to form an approximately hook-shaped engaging portion, and the lower end of the spring is provided with a substantially hook-shaped engaging portion 15, adapted to be passed through a perforation 16 of a plate 17, which is secured to the lever by bands 18. The plate 16, which extends longitudinally of the oscillatory lever, is provided with a plurality of perforations arranged at suitable intervals and adapted to receive the spring to enable the latter to be moved toward and from the rear or pivoted end of the lever to vary the tension of the spring for adapting the device to the weight of the child. The bands 18, which embrace the lever, have their ends bent outwardly and

arranged at opposite sides of the plate 16 and secured to the same by suitable fastening devices.

The front end of the support is open from the top to the bottom of the front end frame, and the lever extends through and in advance of the front end frame and is provided at its front end with an eye 19, into which is linked an eye 20 of a link 21. The link 21, which depends from the lever, is provided at its lower end with an eye 22 for the reception of a cross-bar 23.

The cross-bar 23 is adapted to support a sling 24, which is connected with the ends of the cross-bar by side straps 25, suitably secured to the ends of the cross-bar and adapted to be wound around the same to vary their length to adjust the sling to the size of the child. The sling consists of a band and a pair of broad straps or pieces 26, forming a seat for the child and connected at the front of the band and separable at the back, as shown, the band being adapted to be unfastened to enable a child to be readily placed in the sling. The parts are adjusted so that the feet of the child will barely touch a cushion placed on the floor or other supporting-surface. The device will permit the free use of the limbs of a child and will support its body and enable the child to thoroughly exercise its legs. The spring, which is connected with the lever, will assist the child in jumping, as will be readily understood.

The bracket is detachable, and it may be secured to a door or window casing or other fixed support, as will be readily apparent.

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

1. A device of the class described, comprising a support composed of two arched end frames connected at the sides, and a lever yieldably mounted on one of the end frames and extending through the other end frame and provided with means for holding a child.

2. A device of the class described, comprising a bracket designed to be mounted on a suitable support and having an outwardly-extending arm, a lever fulcrumed at one end on the bracket, and a spring supported by the arm of the bracket and adjustably connected with the lever at a point between the ends thereof and adapted to be moved from and toward the rear end thereof to vary the tension of the spring.

3. A device of the class described, comprising a bracket designed to be mounted on a suitable support, a lever fulcrumed at one end on the bracket and provided with means for holding a child, and a spring supported by the bracket and adjustably connected with the lever at a point between the ends thereof, whereby the tension of the spring may be varied.

4. A device of the class described, comprising a bracket, a lever fulcrumed at one end on the bracket, a plate extending longitudinally of the lever and provided at intervals with perforations, a spring depending from the bracket and provided with means for engaging the perforations of the plate, whereby it is adjusted toward and from the rear end of the lever for varying the tension of the spring.

5. A device of the class described, comprising a bracket having a forwardly-projecting arm terminating in a substantially hook-shaped engaging portion, a lever fulcrumed on the bracket at a point below the arm and extending longitudinally thereof, said lever being provided at its outer portion with means for holding a child, and a spring depending from the arm of the bracket and provided at its upper end with an eye for engaging the hook-shaped portion of the same, said spring being connected at its lower end with the lever at a point between the ends thereof.

6. A device of the class described, comprising a bracket, a lever fulcrumed at its rear end on the bracket, a plate extending longitudinally of the lever at a point between the ends thereof and provided with bands encircling the lever, said plate being also provided at intervals with perforations, and a spring supported by the bracket and provided with means for engaging the perforations of the plate.

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

RALPH GAINES.

Witnesses:
J. O. HILDRETH,
WILLIAM GAINES.