

R. J. JOHNSON.
 BABY JUMPER.
 APPLICATION FILED OCT. 2, 1916.

1,261,400.

Patented Apr. 2, 1918.
 2 SHEETS—SHEET 1.

Fig. 1.

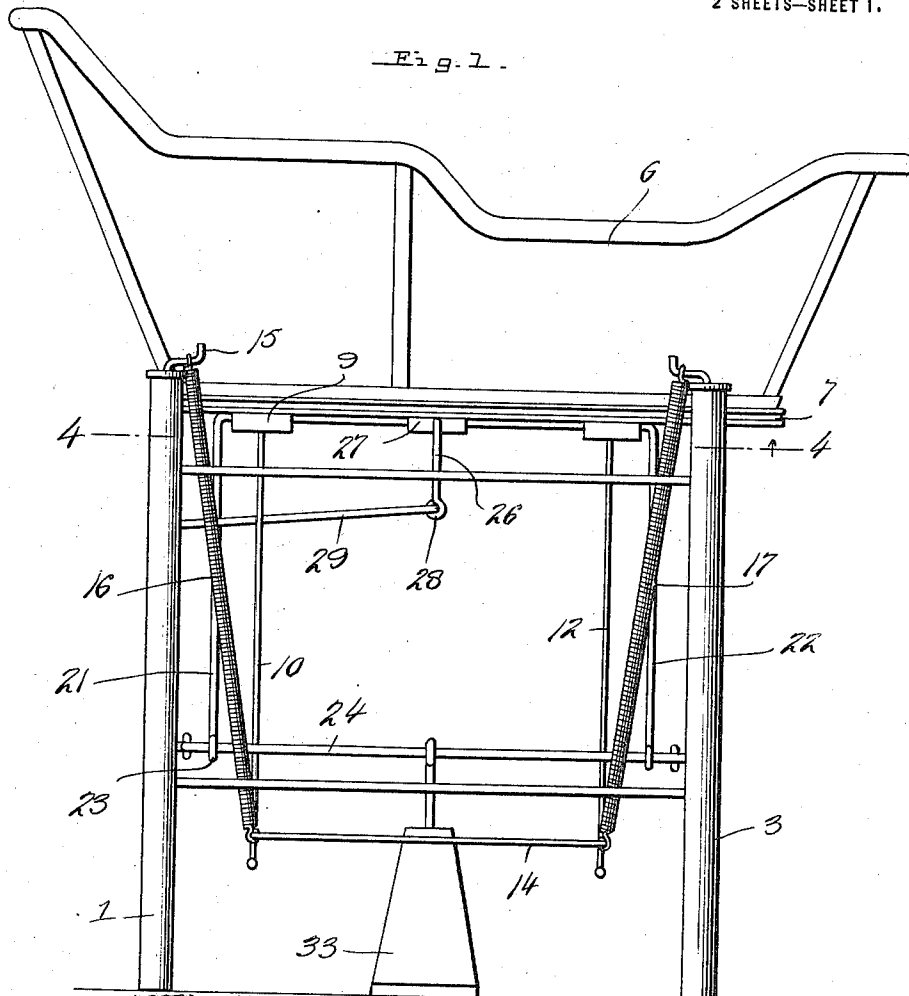
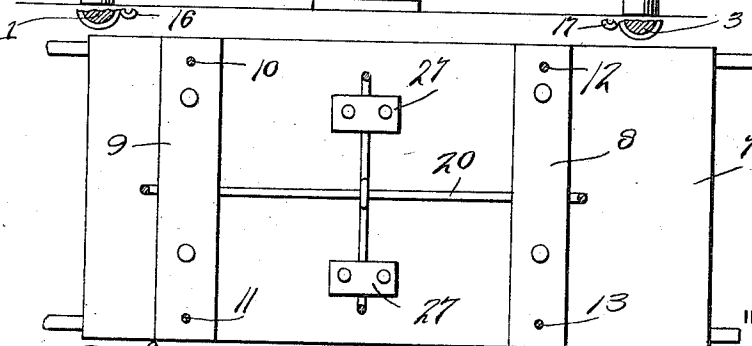


Fig. 4.



WITNESSES

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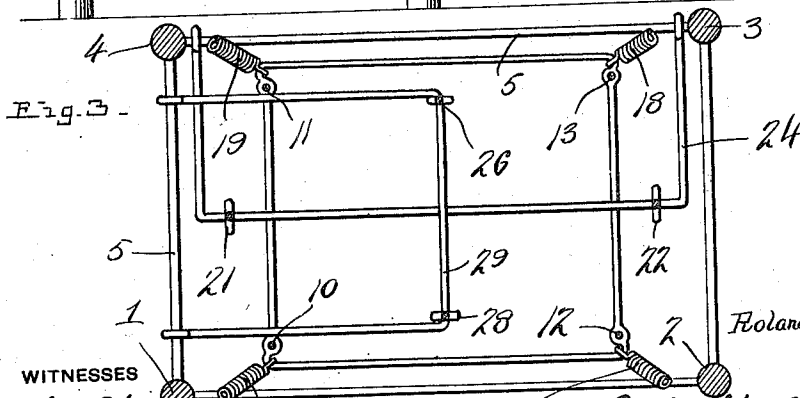
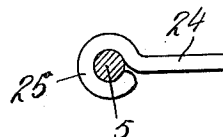
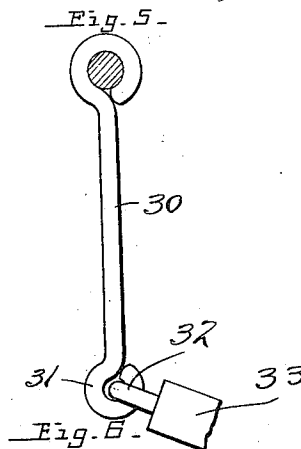
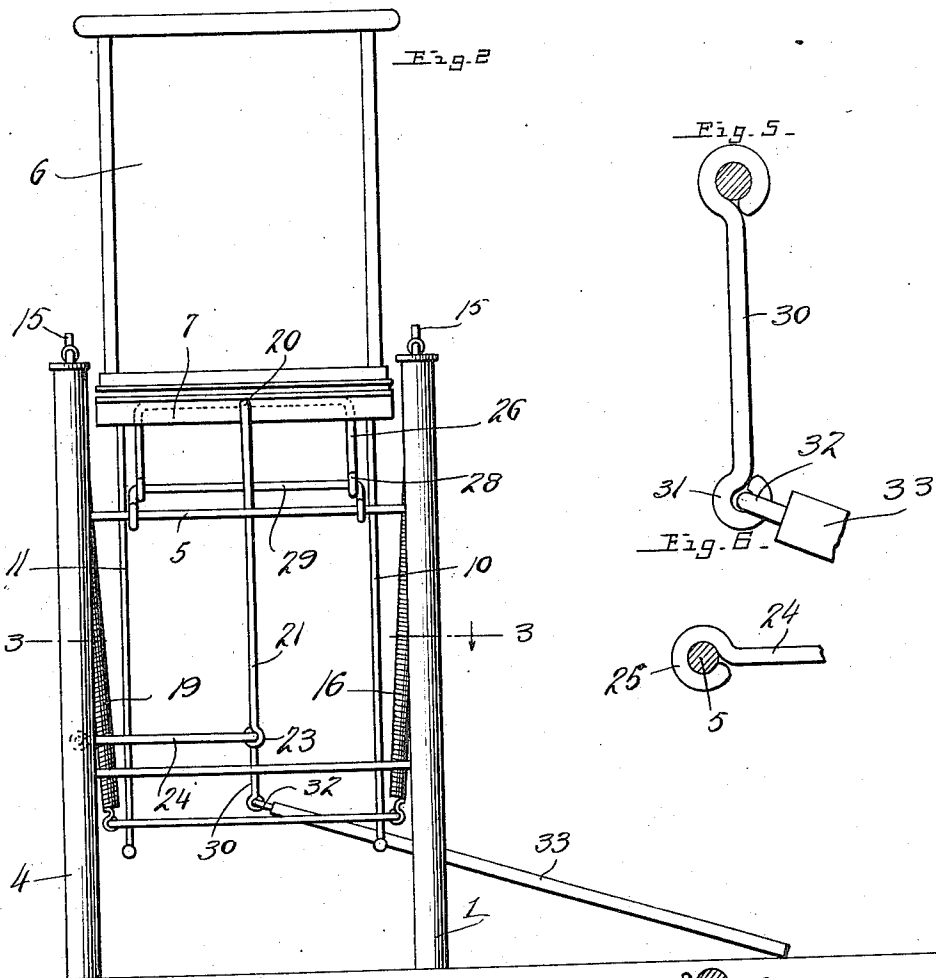
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BABY-JUMPER.

1,261,400.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, ROLAND J. JOHNSON, a citizen of the United States, residing at Woodworth, in the county of Stutsman and State of North Dakota, have invented certain new and useful Improvements in Baby-Jumpers, of which the following is a specification.

This invention relates to an improvement in baby jumpers and more particularly to a device of this character which is constructed with a supporting frame structure upon which a basket is movably mounted and is arranged to have movement imparted thereto.

An object of my invention is to provide a device of the character described which has the basket so mounted and carried by the frame work that the basket is supported entirely through the medium of springs which require the basket to be jogged or moved only slightly and continued movement will be accomplished for a short period through the natural resiliency of the springs or which allows the basket to be manually moved with very little effort.

A further object is to provide means connected between the basket and the frame work in such a manner that as the basket is jogged or has movement in its up and down path, this movement will be confined to a predetermined path and the basket will not tilt either endwise or sidewise irrespective of where the baby may be placed therein or irrespective of pressure which may be exerted upon the side or end portions of the basket.

Yet another object is to provide means so arranged in conjunction with the movable basket that movement may be imparted thereto by the use of the foot while a person is either sitting or standing and thus the jogging or jumping of the basket may be started and continued with very little effort while a person is sitting and reading, sewing, or is otherwise occupied.

With the above and other objects in view, my invention consists in certain novel features of construction and combinations of parts which will be hereinafter set forth in connection with the drawings and then more particularly pointed out in the claims.

In the drawings:—

Figure 1 is a view in side elevation of the device of my invention. 55

Fig. 2 is an end view of the structure.

Fig. 3 is a sectional view taken on the line 3—3 of Fig. 2.

Fig. 4 is a horizontal sectional view on the line 4—4 of Fig. 1 and looking in the direction indicated by the arrow. 60

Fig. 5 is an enlarged detail view of the connection for the operating or jogging means.

Fig. 6 is a fragmentary detail view showing the connection for one of the stabilizing devices. 65

The supporting frame work comprises the four posts or uprights 1, 2, 3 and 4, which are connected together by the cross rods 5 so that a substantially rectangular frame work is provided, this frame work being made of such width that the posts or uprights 1 and 2 are sufficiently spaced from the uprights 3 and 4 that the basket 6 may be fitted between the pairs of uprights and will have clearance on each side to thus allow free movement of the basket. 70

The basket 6 may be made in any desired and suitable shape and style, the elaborateness of the same of course depending in a great measure upon the cost to which it is desired to have the completed device run. However, it is perhaps preferable that this basket be made of woven willow or reed, but under any circumstances it is desirable that the bottom 7 of the basket be made solid and have the cleats 8 and 9 secured transversely thereacross. These cleats 8 and 9 have the supporting rods 10, 11, 12 and 13 secured therein to depend downwardly and made of lengths somewhat less than the length of the standards of the frame structure. A rectangular frame member 14 is connected with the lower end of the supporting rods 10, 11, 12 and 13, so that a somewhat rigid frame work is provided which has sufficient strength to support and carry the basket 6. 80

The hook brackets 15 are mounted in the upper ends of the standards 1, 2, 3 and 4, and coil springs 16, 17, 18, and 19 are each connected at one of their ends with the various brackets 15 carried by the upright stand- 100

ards, the free ends of the coil springs having connection with the frame portion 14 adjacent to or at the corners thereof, it being of course understood that the supporting rods 10, 11, 12 and 13 are sufficiently spread that they connect at their lower ends also substantially at the corners of the rectangular frame portions 14. It is preferable that the springs 16, 17, 18 and 19 be made of sufficient length that the basket 6 is normally held with the bottom 7 thereof just slightly below the top of the upright standards, and thus a proper mounting of the basket from the supporting frame structure is accomplished and at the same time the length of the springs is sufficient that a considerable degree of elasticity and flexibility is permitted therein to allow the basket to be jogged without severe shocks or sharp rebounds.

While the mounting as above set forth will allow the desired up and down or jogging movement of the basket of the jumper, the basket will at the same time be permitted to have side and endwise movement and will also be liable to lateral or endwise tipping if the weight is not evenly placed and distributed therein, and to overcome this objection I mount the substantially U-shaped rod 20 through suitable bearing openings provided in the cleats 8 and 9 so that the arms 21 and 22 thereof are brought down adjacent to the ends of the basket and these arms have eyes or loops 23 formed at the extremities thereof to be received around the bow portion of a substantially U-shaped member 24 which in turn has eyes provided on the end thereof to be received around one of the side brace bars 5 in the manner better shown in Fig. 6. It is of course understood that the U-shaped member 20 has a swinging connection with the basket 6 and that these connections are formed at the eyes 23 and at the connection of the substantially U-shaped member 24 through the medium of the eyes 25 received around the side brace bar 5, and thus the basket will be supported and held positively against endwise tilting or tipping while the up and down jogging movement thereof will not be materially interfered with. To hold the basket 6 against side tipping, the U-shaped member 26 is mounted in the bearings 27 on the lower side of the bottom 7 of the basket and is extended down to have the eyes 28 thereof connected on the substantially U-shaped member 29, which member in turn has eyes formed on the ends thereof similar to the eyes 25 and received around one of the laterally extending brace rods 5, these U-shaped members 26 and 29 acting to hold the basket 6 against lateral tilting or twisting movement.

The structure as above described is such that as a baby is placed within the basket 6, the springs 16, 17, 18 and 19 will be some-

what stretched or extended, but the basket 6 will at all times be maintained against tilting and any movement of the basket must be in a substantially vertical path. As the basket may be pressed down with the hand or otherwise and then released, the flexibility and resiliency of the springs will cause the same to be again elevated and this movement will continue until the springs again act to overcome the inertia of the basket and the same comes to rest. However, it is desirable that some means be provided by which the jogging or jumping movement of the basket may be readily accomplished and continued for a considerable period of time without any appreciable effort, and with this purpose in mind I connect the link 30 with the U-shaped member 24 so that it may have swinging movement and at the free end of this link provide the eye 31 which is adapted to receive a staple 32 carried by the end of the treadle piece 33. This treadle piece 33 is made of the proper length that it may be brought out to have the free end rest upon the floor or other surface upon which the upright members stand and thus as slight pressure is exerted intermittently with the foot or in any other way upon the treadle piece 33, downward pressure will be exerted upon the basket supporting means and consequently the springs will be stretched to again recoil as the pressure is removed from the treadle piece and to in this way give the desired jogging or jumping movement to the basket.

From the foregoing it will be seen that I have provided a baby jumper which has the parts thereof so arranged that a smooth and even jogging or jumping movement is imparted to the basket due to the fact that a considerable length of spring is provided for expansion and recoil, that the basket is positively held against lateral or endwise tilting while at the same time the up and down travel to accomplish the jogging action is in no way interfered with, and that by the use of the treadle the desired up and down movement of the basket can be accomplished with a relatively small manual effort and that the manually induced movement can be continued for a great period of time without tiring.

While in the foregoing I have set forth the device as being constructed to have the frame work left open and exposed, it will of course be understood that a canopy could be constructed around the upright standards to inclose the operating parts, that the form of the treadle and the arrangement of the same in conjunction with the remaining parts might be varied, that portions of the supporting and operating mechanism here described as constituting single members might be made in several pieces, and that a number of other variations and modifica-

tions might be resorted to in the form and arrangement of the several parts of the structure without departing from the spirit and scope of my invention, in view of which fact I do not wish to be limited to the exact disclosure but rather only to such points as may be set forth in the claims.

I claim:

1. A baby jumper comprising a supporting frame structure, a basket, swinging members connected with the basket and with the supporting frame structure to hold the basket against endwise and lateral movement while allowing up and down movement, and springs connected with the supporting frame structure and with the basket to resiliently support the same to have up and down movement in a jogging relation.

2. A baby jumper comprising a supporting frame structure, a basket, a U-shaped member mounted transversely of the basket with the arms thereof depended downwardly and capable of swinging movement, a second U-shaped member mounted on a swinging axis substantially at right angles to the axis of the first mentioned member, substantially U-shaped members carried by the supporting frame structure and having pivotal connection with the arms of the members carried by the basket, and springs connected between the supporting frame work and the basket and upon which the basket is given resilient mounting.

3. A baby jumper comprising a supporting frame structure made up of uprights connected together by side and end brace rods, a basket, a frame structure depending from the bottom of said basket and fixed thereto, a substantially U-shaped member mounted transversely on the basket in the middle portion thereof and with the arms depending and capable of swinging movement, a U-shaped member having the arms

of the first mentioned member pivotally connected therewith and said last mentioned U-shaped member mounted at its ends on the laterally extending brace rod, and springs connected with the upright members of the supporting frame structure and with the frame portion depending from the basket to thus give resilient support to the basket.

4. A baby jumper comprising a supporting frame structure made up of uprights connected together by side and end brace rods, a basket, a frame structure depending from the bottom of said basket and fixed thereto, a substantially U-shaped member mounted transversely on the basket in the middle portion thereof and with the arms depending and capable of swinging movement, a U-shaped member having the arms of the first mentioned member pivotally connected therewith and said last mentioned U-shaped member mounted at its ends on the laterally extending brace rods, a U-shaped member having the bow thereof movably mounted in bearings on the under side of the basket and this U-shaped member being thus disposed with the bow extending longitudinally of the basket and with arms depending therefrom, a U-shaped member having the arms of the longitudinally mounted member connected with the bow thereof and then connected at its ends with one of the side braces to be capable of swinging movement, and coil springs connected with the upper ends of the uprights of the supporting frame structure and with the frame portion depending from the basket.

In testimony whereof I affix my signature in presence of two witnesses.

ROLAND J. JOHNSON.

Witnesses:

WILL. H. WRIGHT,
J. J. NYGAARD.