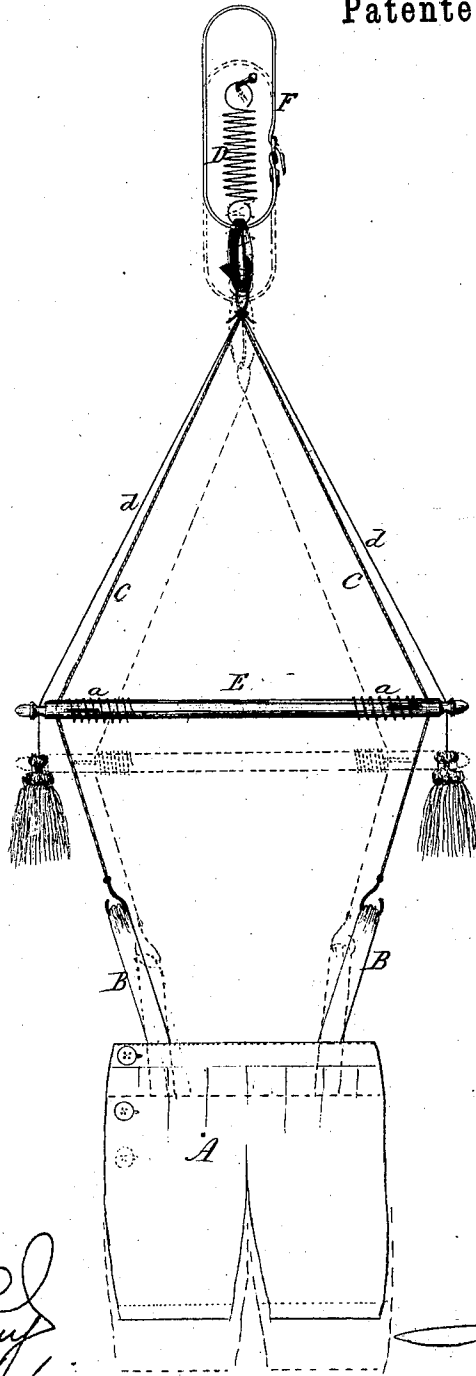


E. L. WARNER.  
BABY JUMPER.

No. 105,149.

Patented July 5, 1870.



Witnesses.  
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# United States Patent Office.

EGBERT L. WARNER, OF OXFORD, CONNECTICUT.

Letters Patent No. 105,149, dated July 5, 1870.

## IMPROVED BABY JUMPER.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, EGBERT L. WARNER, of Oxford, in the county of New Haven and State of Connecticut, have invented a new Improvement in Baby-Jumper; and I do hereby declare the following, when taken in connection with the accompanying drawings, and the letters of reference marked thereon, to be a full, clear, and exact description of the same, and which said drawings constitute part of this specification, and represent a front view.

This invention relates to an improvement in baby-jumpers, that is, an apparatus by which the infant is supported, so as to barely touch its feet to the floor, and with an elastic apparatus operating so that, by a slight action of the feet, the body is raised and lowered, and kept in constant motion for the amusement of the child; and

The invention consists in the arrangement of a supporting device for the body of the child upon a vertical spring combined with transverse springs, so that a double action is obtained.

A is a device constructed so as to receive the child, and allow the free play of its limbs, and is secured by suitable straps B B and cords C C, to a vertical spring, D, supported in any convenient position, so that the feet of the child may touch or rest upon the floor.

Between the cords O C, and so as to extend the same, is arranged a rod, E, the cords O passing through slots in the said rod, and bearing against the

springs *a* on the rod, and the said rod supported by auxiliary rods, *d*, so as to allow free play of the cords C through the rod.

When the child is placed in the support A, so as to draw down the support, the spring D yields, and also the springs *a a* on the rod, so as to come into the position denoted in broken lines in the drawings, and the play up and down contracts and extends both the springs *a a* and the vertical spring D.

As there must be some limit to the extent to which the spring D may be drawn or extended, I arrange an adjustable strap, F, so as to arrest the downward movement of the spring at any desired point, and the springs *a a* prevent the jerk which would otherwise occur when the spring D had been drawn to its fullest extent and stopped; the springs *a a* being compressed yield sufficiently, after the spring D has been stopped, to prevent any inconvenient effects from the sudden stoppage of the action of the spring D.

I claim as my invention—

The baby-jumper herein described, consisting of the support A, cords C C, vertical spring D, with its adjusting strap F, and the rod E, with the auxiliary springs *a a*, operating in the manner specified.

EGBERT L. WARNER.

Witnesses:

JOHN H. SHUMWAY,

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