

(No Model.)

O. S. M. CONE.

COMBINED BABY JUMPER, &c.

No. 347,092.

Patented Aug. 10, 1886.

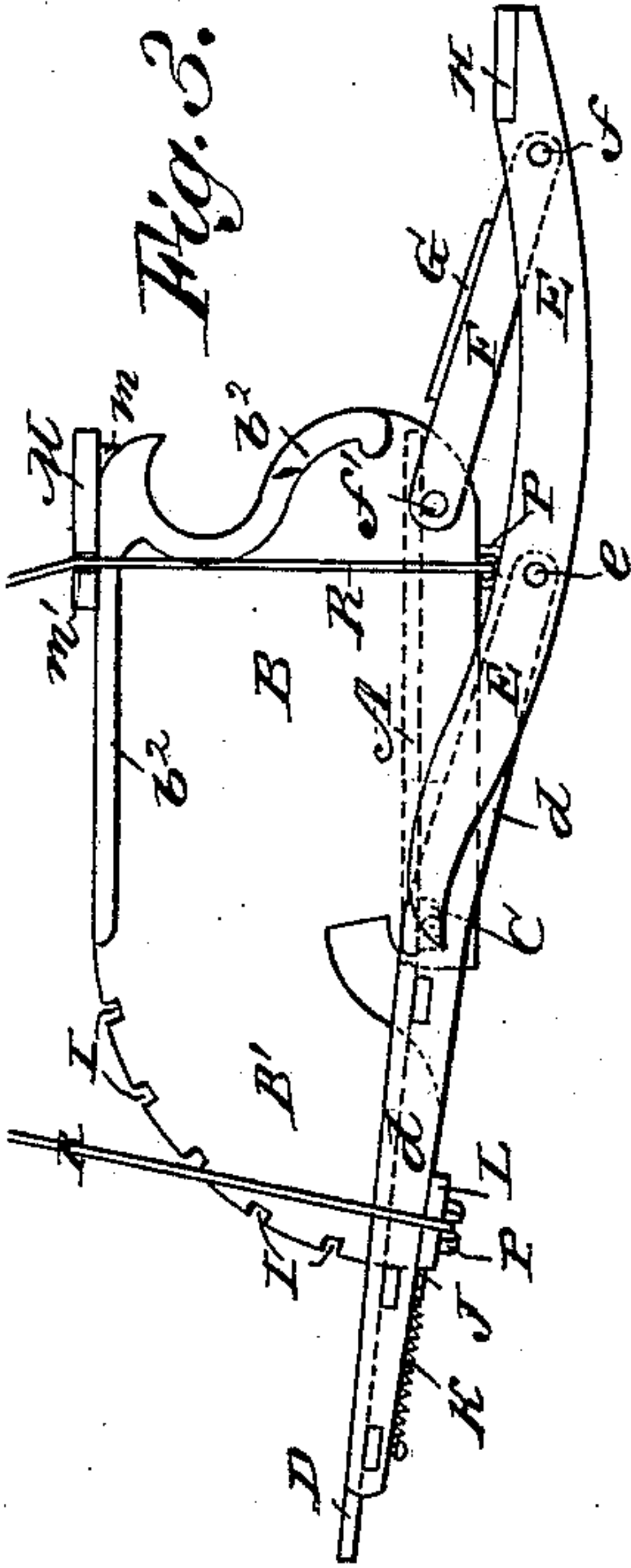


Fig. 3.

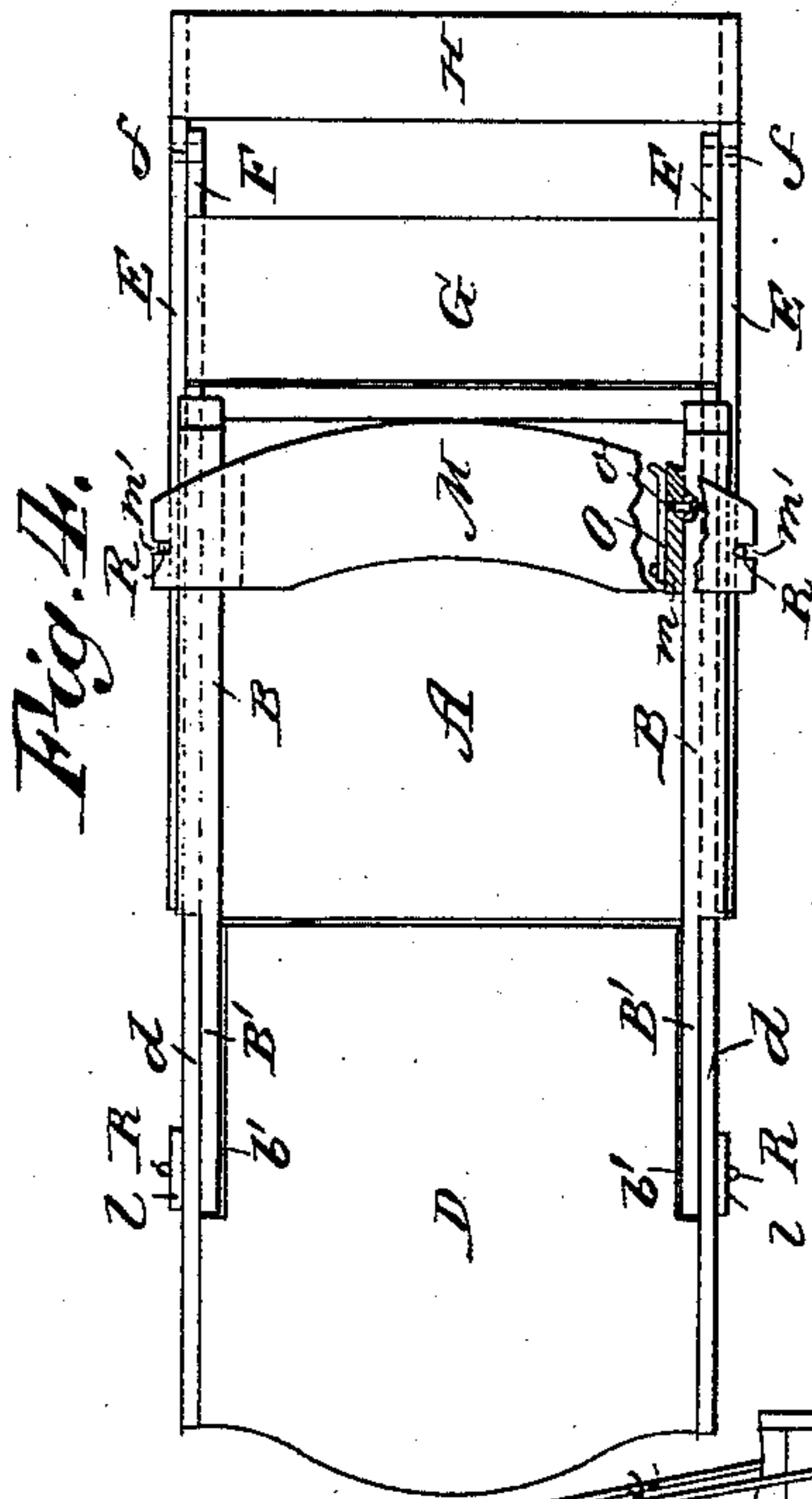


Fig. 4.

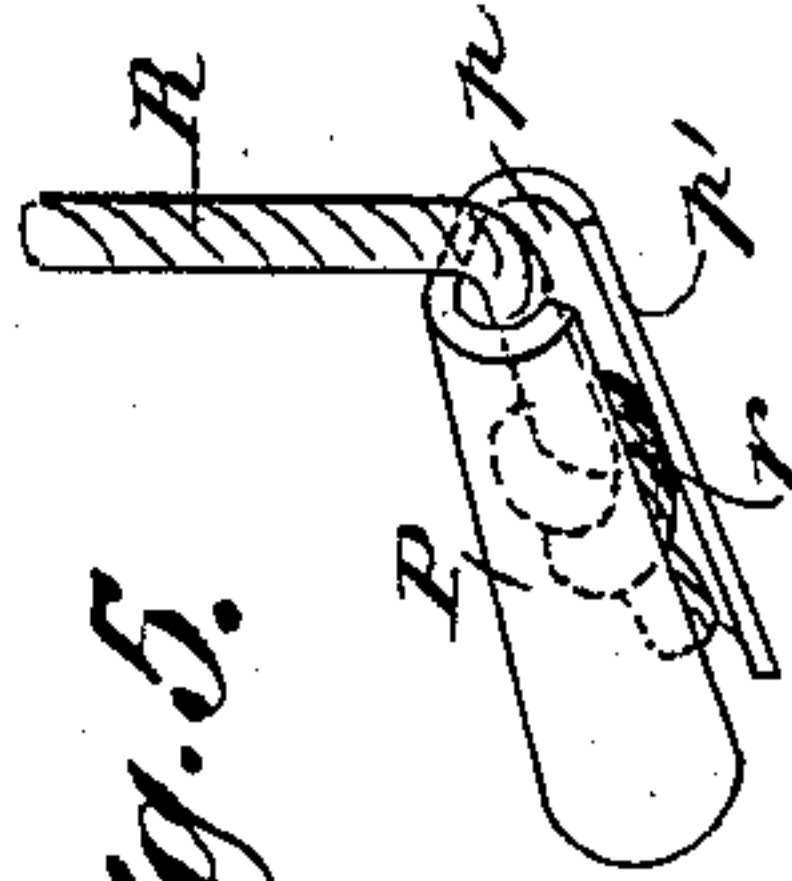


Fig. 5.

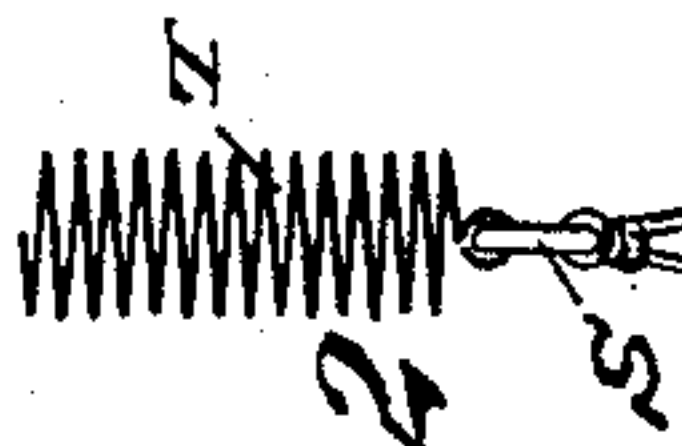


Fig. 2.

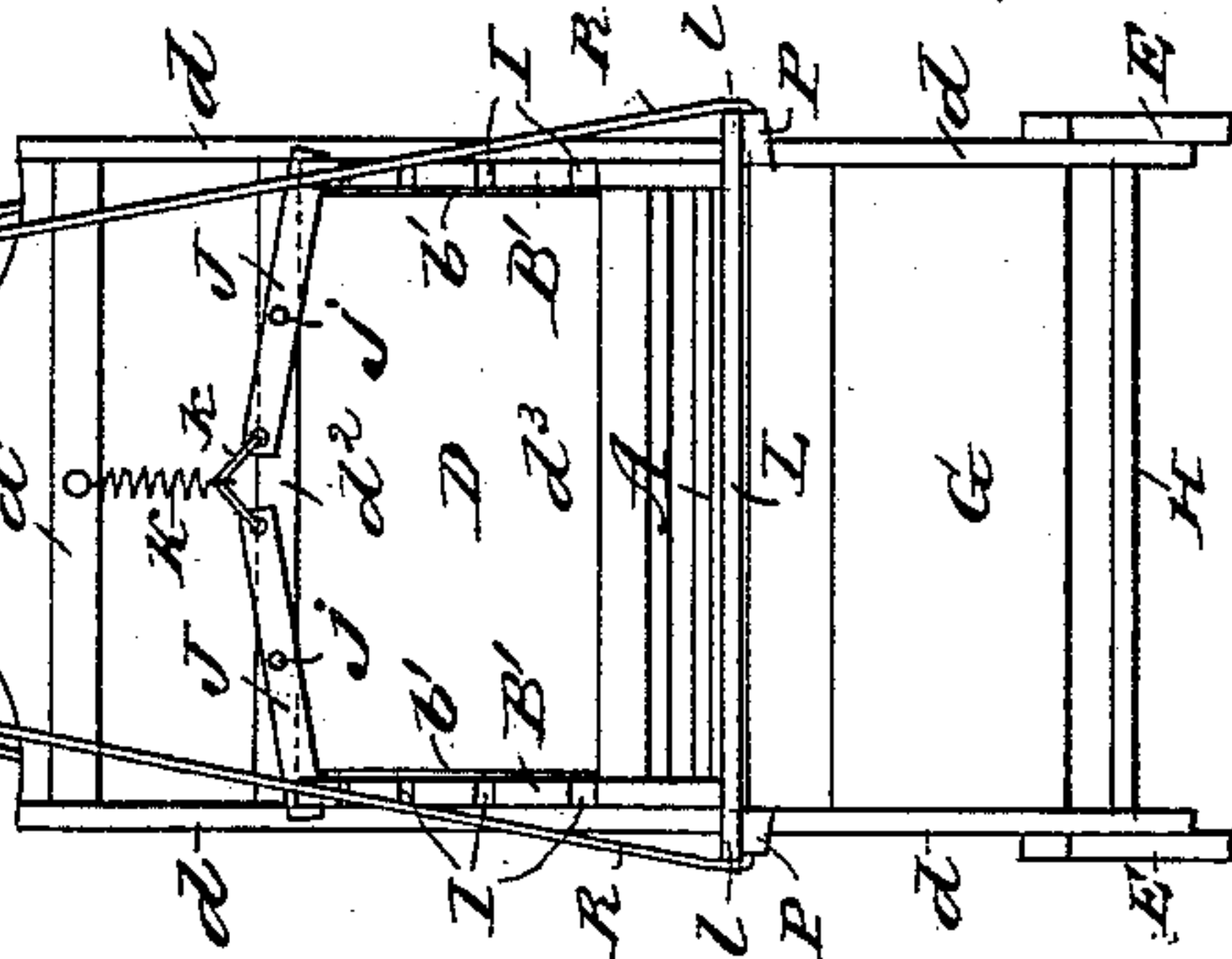


Fig. 1.

WITNESSES:

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# UNITED STATES PATENT OFFICE.

OWEN S. M. CONE, OF ST. PAUL, MINNESOTA.

## COMBINED BABY-JUMPER, &c.

SPECIFICATION forming part of Letters Patent No. 347,092, dated August 10, 1886.

Application filed May 8, 1886. Serial No. 201,551. (No model.)

*To all whom it may concern:*

Be it known that I, OWEN S. M. CONE, of St. Paul, in the county of Ramsey and State of Minnesota, have invented a new and Improved  
5 Combined Baby-Jumper, &c., of which the following is a full, clear, and exact description.

The object of my invention is to provide a simple, inexpensive, substantial article of furniture which may readily be adjusted to serve  
10 as a baby-jumper, a rocking chair, and a crib.

The invention consists in certain novel features of construction and combinations of parts of the jumper, rocker, and crib, all as hereinafter fully described and claimed.

15 Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar letters of reference indicate corresponding parts in all the figures.

Figure 1 is a vertical sectional elevation of  
20 my invention set up as a rocker, which is connected also to a jumper-spring; and Fig. 2 is a back view with the parts adjusted as in Fig. 1. Fig. 3 shows the improvement adjusted as a crib. Fig. 4 is a plan view with the parts  
25 adjusted as in Fig. 3, and partly broken away and in section; and Fig. 5 is a perspective view of one of the cord-holders which are attached to the seat and back of the jumper, and drawn to a larger scale.

30 The jumper-seat A has fixed to it the opposite side pieces or arms, B B, to which are pivoted at C the long bars  $d d$ , which are connected at their upper parts by cross-bars  $d' d'$  and to which latter cross-bars the back D of the jumper is fixed. To the lower ends of  
35 the bars  $d d$  the opposite rockers, E E, are pivoted at  $e$ , and the rockers extend forward and are pivoted near their front ends at  $f$  to the lower end parts of the short front legs, F F, of the jumper, and these legs are pivoted at  $f'$   
40 at their upper ends to the opposite sides, B B, of the jumper. The legs F F are connected by a front board or cross-piece, G, and the projecting forward ends of the rockers E E have  
45 fixed to them a board or cross-piece, H, which serves as a foot-rest when the article of furniture is set up as a rocker.

The sides or arms B B of the jumper have backward extensions B' B', which pass through  
50 slots or openings  $b' b'$  cut in the back D, next the opposite side bars,  $d d$ , (see Figs. 2 and 4,) and the outer upper edges of these extensions

B' are curved in arcs of circles struck from the pivots C as a center, and these curved edges of the parts B' are provided with a series of  
55 notches, I, into which pass the outer ends of levers J J, which are pivoted at  $j j$  to the frame cross-bar  $d''$ , and are connected at their inner ends by a cord,  $k$ , with one end of a spring, K, the other end of which is attached to the  
60 upper back cross-bar,  $d'$ . This spring normally contracts and presses the latch-levers J J into the notches I of the parts B', as best seen in Figs. 1 and 2 of the drawings.

The lower outer edges of the opposite side-  
65 arm extensions, B' B', are connected by a cross piece or bar, L, which strongly braces the parts B' B' to each other, and said cross-piece L has ends  $l l$ , projecting beyond the parts B' B', which serves as rests for the side bars,  $d d$ ,  
70 when the jumper is adjusted as a crib, as hereinafter explained.

At the tops and fronts of the side arms, B B, there is placed a cross board or tray, M, which has cleats  $m m$ , which range along the  
75 inner faces of the arms and brace them apart, and to each cleat  $m$  there is attached the one end of a spring-metal plate, O, which has a pin,  $o$ , projecting outward through the cleat, and adapted to enter a hole in the inner face  
80 of the adjacent arm B, and thereby lock the board M securely against either forward or backward movement on the arms B B. This board M serves as a guard to prevent fall of a  
85 child from the jumper, and also serves as a table on which to place toys or books to amuse the child.

A raised molding,  $b^2$ , at the outer faces of the arms B at their tops and fronts, stiffens the arms and makes them more comfortable to  
90 lean upon, and gives them a better appearance.

When the spring-pressed latch-levers J J are engaged with the upper front notches, I I, of the opposite extensions B' B' of the arms B  
95 B, the back D, legs  $d F$ , and rockers E, will be locked by the levers in positions relatively to the seat A, as shown in Figs. 1 and 2, and the piece of furniture may then be used as a rocking-chair. When the latch-levers J J are  
100 engaged with the lower rear notches, I, of the arm-extensions B', the back D, legs  $d F$ , and rockers E will assume and be locked by the levers in the position shown in Figs. 2 and 3,



and the piece of furniture may then be used as a crib, as the back D will be swung downward, when it will have support by the side bars, *d d*, on the ends *l l* of cross-piece L, and the boards or cross-pieces G H will be swung upward nearly level with the seat A. By placing the levers J J in any opposite pair of the middle notches, I, the back D and cross-pieces or leg-rests G H may be held in any desired intermediate positions, as will readily be understood. The levers J J are released from the notches I by pressing their inner ends downward or toward the seat A against the tension of the spring K.

To opposite sides of the seat A, underneath it, and underneath opposite ends of the cross-piece L, there are fixed the four clamps P, each of which is made, as shown in Fig. 5, of a metal plate bent around at the edges to form a tapering interior recess, *p*, into the large end of which a knot, *r*, on the end of a suspension-cord, R, may be slipped; but the knot will not pass through the smaller end of the recess from which the cord R leads; hence the end of the cord may be quickly passed through the lower side slot, *p'*, between the opposing bent ends of the clamp, and the knot will bind in the clamp and securely hold the cord thereto.

The four cords R converge, and are fastened to a ring, S, which is connected to a spiral spring, T, which is to be attached at its top to a hook, eye, or other support fastened overhead—say to a door-frame or to the ceiling of a room—and whereby the piece of furniture may be suspended for use as a jumper, the stretching and contraction of the spring giving an easy vertical reciprocation to the jumper, whether it be adjusted as in Fig. 1 or as in Fig. 3, or to any intermediate relative positions of its parts.

The two opposite front cords, R R, pass from their clamps P up the outside of the arms B' and through notches *m' m'* in the opposite ends of the tray M, thus holding the lower parts of these cords well forward, to give freer play to the child's arm at the front of the jumper. The slots *m'* may be substi-

tuted by holes made through the tray M near its extremities. The front clamps, P P, may be fixed to the outer faces of the side arms, B B, if preferred.

When the article of furniture is to be used as a rocker, the suspension-cords R may readily be disconnected from the clamps P by slipping the knots *r* backward in and from the clamps to allow the cords to pass through the side slots of the clamps.

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

1. In a combined baby jumper, rocker, and crib, the combination of the seat A, side arms, B B, fixed thereto, and having rear extensions, B' B', the back D, having side bars forming rear legs, and pivoted at C to the seat, the front legs, F, pivoted at *f'* to the seat, the rockers E E, pivoted at *e f* to the legs *d F*, notches I in the extensions B' of arms B, and latch-levers J J, pivoted to the back D, and adapted to the notches I, substantially as described, for the purposes set forth.

2. In a combined baby jumper, rocker, and crib, the combination, with the seat A, side arms, B B, having rear extensions, B' B', and the back D, pivoted at C to the seat, of a cross-piece, L, fixed to parts B', and having projecting ends *l l*, which form rests to the lowered back D, substantially as herein set forth.

3. The combination, with the seat A and side arms, B B, fixed thereto, and having rear extensions, B' B', notched at I, and the back D, pivoted at C to the seat, of the latch-levers J, pivoted at *j* to the back D, and adapted to the notches I of parts B', and a spring, K, holding the latch-levers in the notches, substantially as herein set forth.

4. The combination, with the side arms, B B, of a cross piece or tray M, having cleats *m m*, and spring-latches O, fixed to the cleats, and having pins *o*, adapted to holes in the arms, substantially as herein set forth.

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Witnesses:

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