

J. A. McClain,

Swing,

Nº 63,278.

Patented Mar 26, 1867.

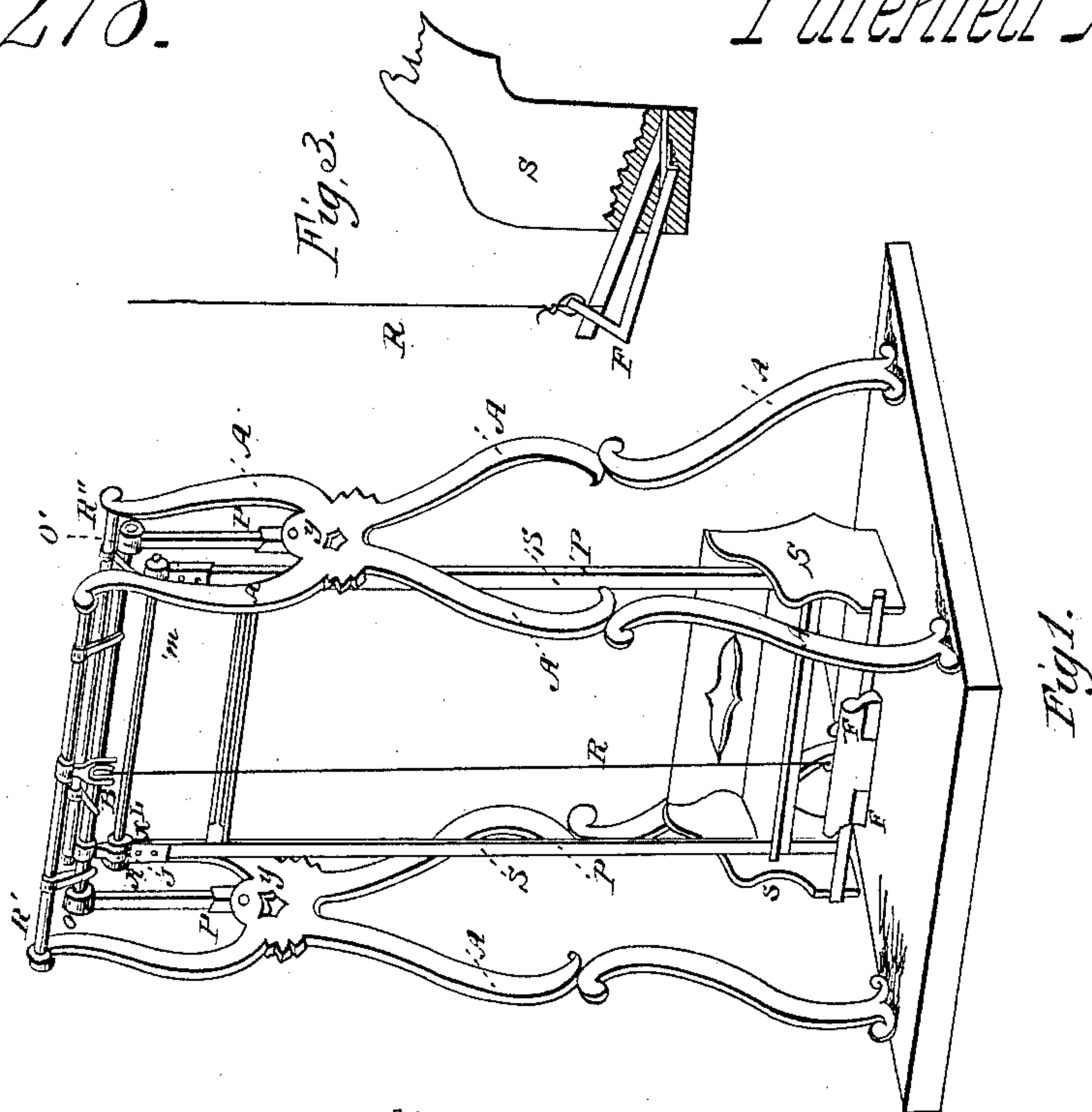


Fig. 1.

Fig. 3.

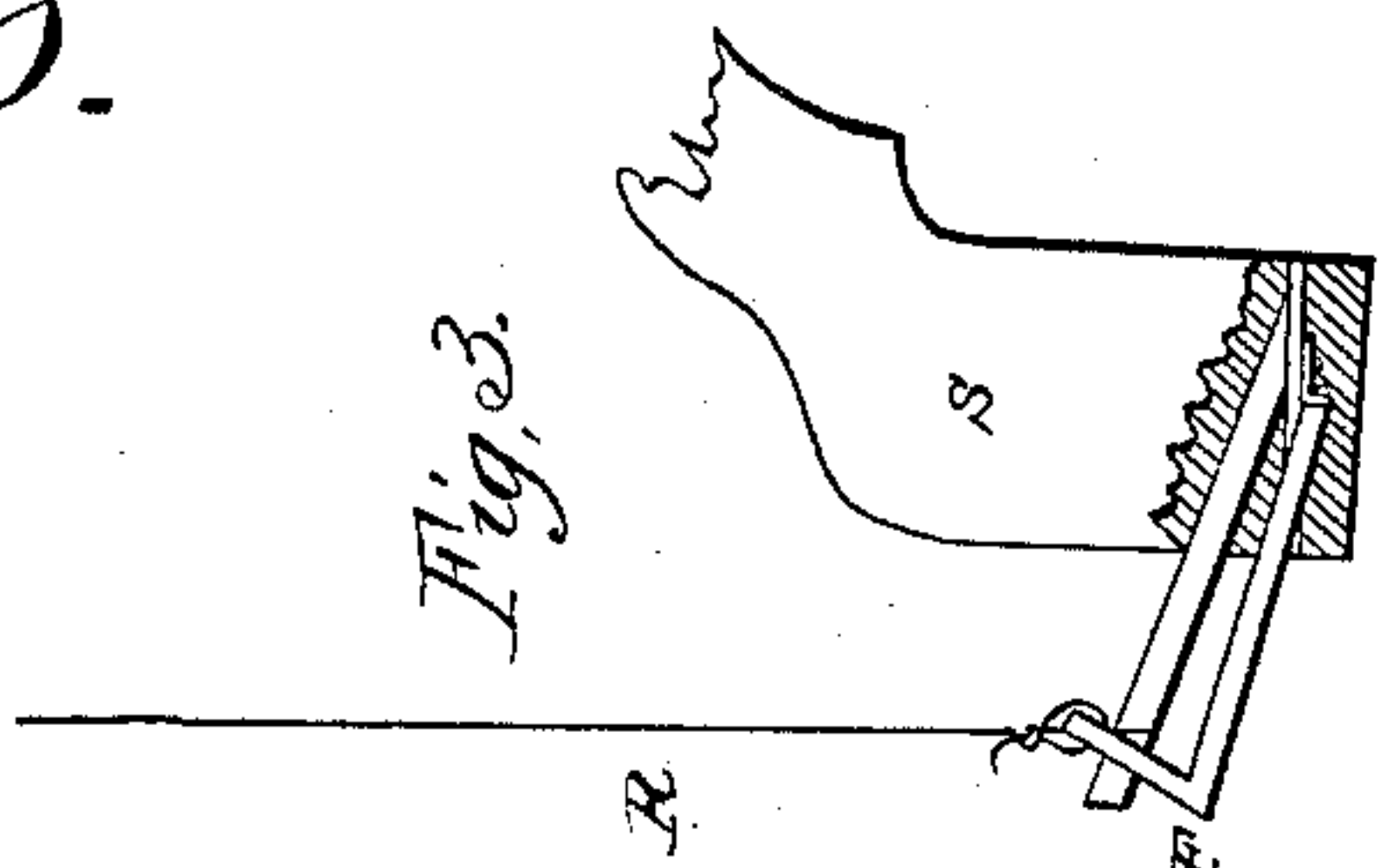


Fig. 2.

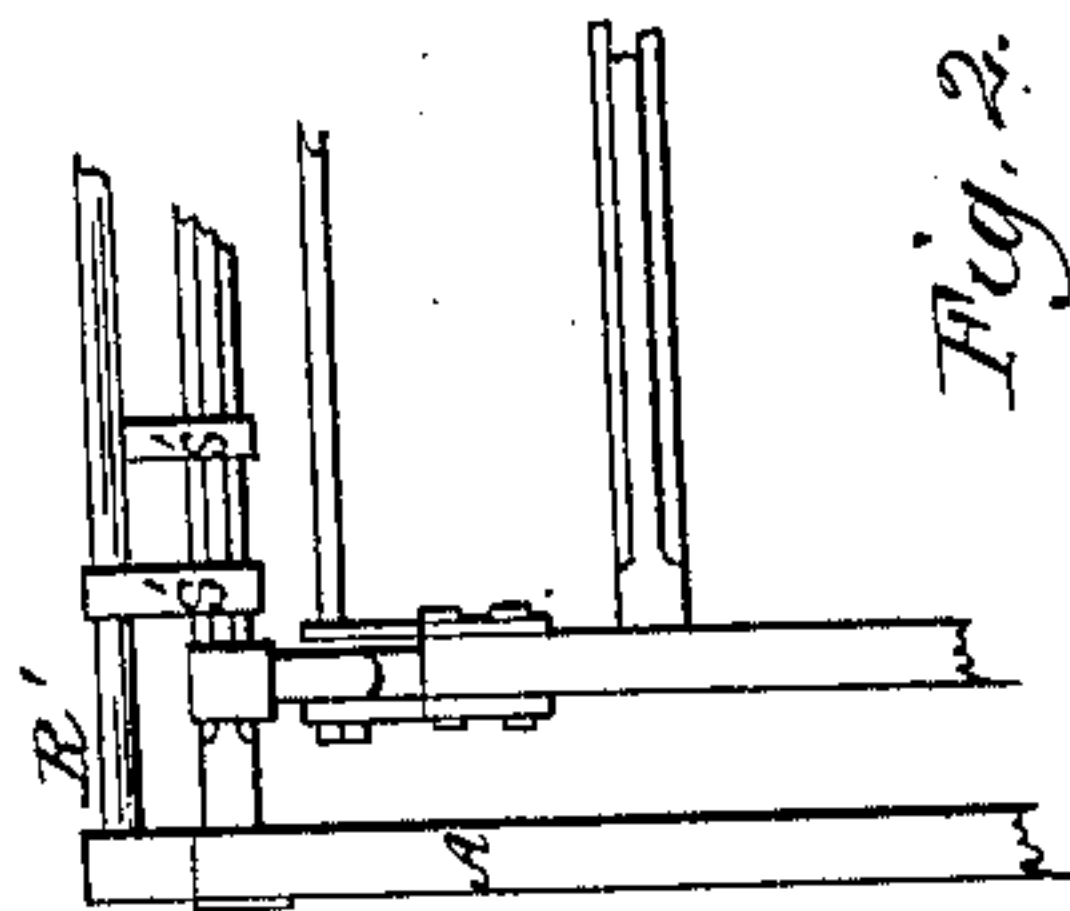


Fig. 6.

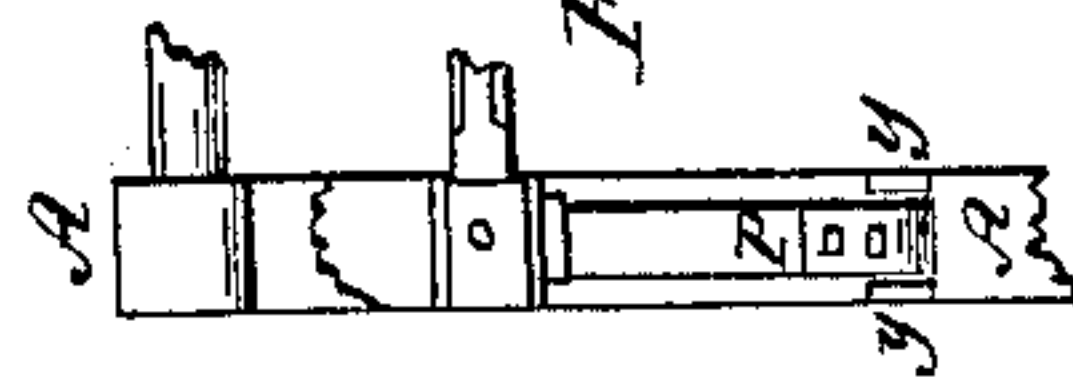


Fig. 4.

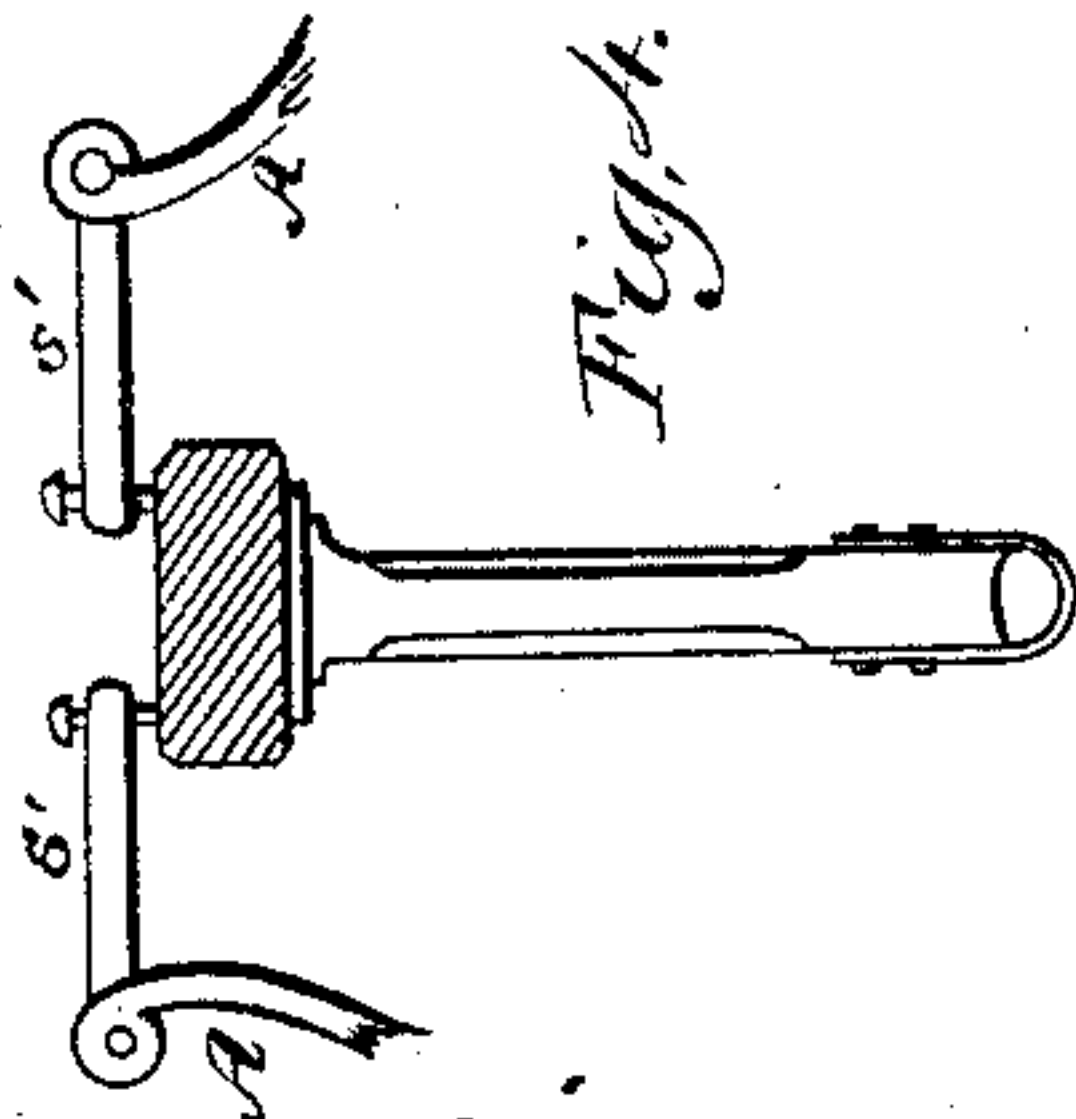
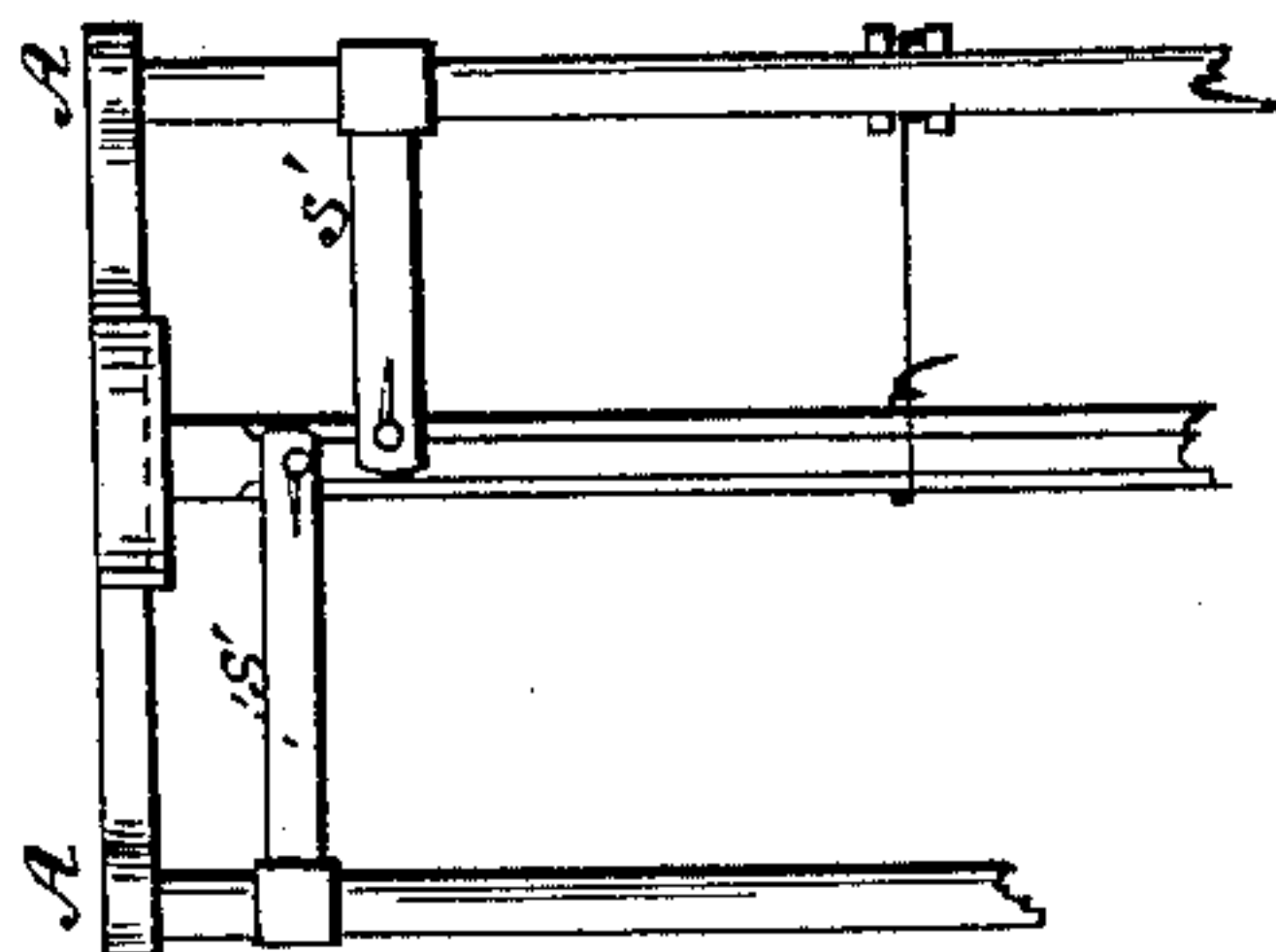


Fig. 5.



Witnesses.

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JOHN A. McCLAIN, OF PHILADELPHIA, PENNSYLVANIA.

Letters Patent No. 63,278, dated March 26, 1867.

IMPROVEMENT IN SWINGS.

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, JOHN A. McCLAIN, of the city of Philadelphia, in the county of Philadelphia, in the State of Pennsylvania, have invented a new and useful Improvement in "Swings;" and I do hereby declare that the following is a full and exact description of the same, reference being had to the accompanying drawings, and to the letters marked thereon, making a part of this specification, in which—

Figure 1 is a perspective view of my swing.

Figure 2, a detached elevation view of the mode of springs used by me on my swing.

Figure 3, a sectional elevation, showing the connection of the seat with the foot-board and rope.

Figure 4, an end view of the attachment of springs on the vibrating frame.

Figure 5, a top view of do.

Figure 6, a view, on a larger scale, of the way the vibrating frame is connected, by means of its pivot, with the uprights of the swing.

The nature of my invention consists in the construction of a swing, acted on by means of a movable foot-board, a rope, and a peculiar system of vibrating frame and springs, which enable the swinger, however young, to obtain an easy swinging motion, by a simple and non-fatiguing movement of the feet on the foot-board.

To enable others skilled in the art to make and use my invention, I will proceed to describe its mode of construction and operation.

A A R' R'' is a frame, composed of two uprights, A A, standing parallelly on any suitable platform or frame, and connected together by the rods R' and R'', parallel, and set apart by about two feet and a half or more. The uprights A A can be made in any ornamental way. A frame, P O O' P, composed of two vertical sides, P and P, united parallelly by rod or top piece, O O', is made so that when placed in proper position its vertical sides, P and P, will rest on their inferior ends on y, or at the point of intersection of both X's of the uprights A A, and its horizontal top branch or rod will be a little lower than the level of the rods R' and R''. Two sets of springs, S' and S', respectively attached two by two on each rod R' and R'', are fastened opposite to each other, on each side of both uprights A, and by their other ends on rod or top piece O O' of frame P O O' P. Springs S' S' to be made of India rubber, gutta percha, or any metal to suit. A seat, S S, of suitable size, and of any ornamental form to suit, is next suspended on to rod O O' by means of suspenders, wooden or metallic, S P S P, which are fastened to the seat on one end, and at the other hang from rod O O' by means of hinge-hooks K L. A foot-board, F, is attached to the foot-rest of the seat S, by means of hinges, and on the middle of the outside edge of said foot-board F is fastened rope R, which goes up towards rod R', passes through block or ring B, and is fastened on top piece or rod of vibrating frame P O O' P.

Thus disposed my swing is ready for use. Any person seated in seat S S, and giving a slight pressure with the feet to foot-board F, will act on rope R so as to make frame P O O' P move forward on its pivots y and y. The movement forward, or vibration of P O O' P, will act on the two back springs, and give the suspenders, and the seat they support, a backward movement; the same will vibrate forward, when the feet ceasing to act on foot-board F, will thus slacken the tension of the rope, will permit the back springs S' to react backwards; the frame P O O' P will follow, and when the swinger will again act on the foot-board the two movements already described will alternately take place, and an easy swinging movement be obtained.

I am aware that a foot-board similar to mine, not only in form, but in its way of acting and purpose, has already been in use, and I do not intend to claim of itself otherwise but in its connection with my peculiar mode of vibrating suspension. Similar remark will also apply to the rope which I use. I do not either desire to confine myself, in the construction of my swing, to wood or metal in any of its parts, nor to the peculiar or usual way of fastening the rope to the seat or its foot-board.

But having thus described my invention, what I claim as my invention, and desire to secure by Letters Patent of the United States, is—

1. The vibrating frame P O O' P, and springs S' S', whether metallic or otherwise, when constructed and combined in the manner and for the purpose above described and set forth.

2. The combination of upright A A, and vibrating frame P O O' P, rope and foot-board R and F, springs S' S', and suspenders and seat S P and S, the whole combined and constructed for the purpose in the manner aforesaid described and set forth.

JOHN A. McCLAIN.

Witnesses:

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