(No Model.) 2 Sheets—Sheet 1.

THOMPSON M. CONNER & THEODORE M. CONNER.

ROLLER SKATE.

No. 302,241. Patented July 22, 1884.

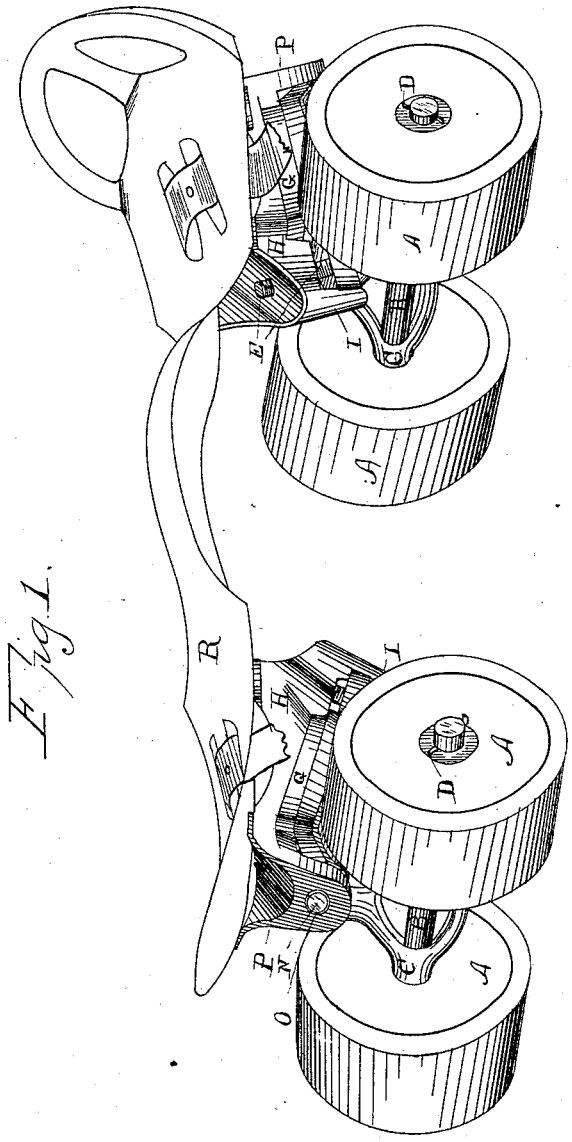

Fig. 1.

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Harrison Ogborn

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(No Model.) 2 Sheets—Sheet 2.

THOMPSON M. CONNER & THEODORE M. CONNER.

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Fig. 2.

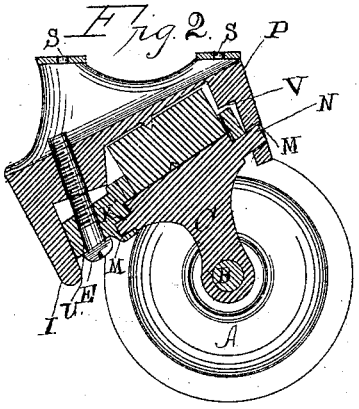


Fig. 3.

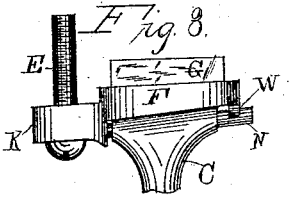


Fig. 4.

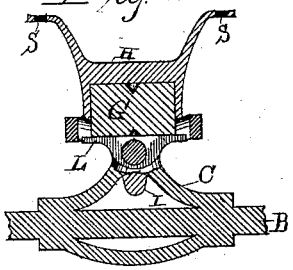


Fig. 5.

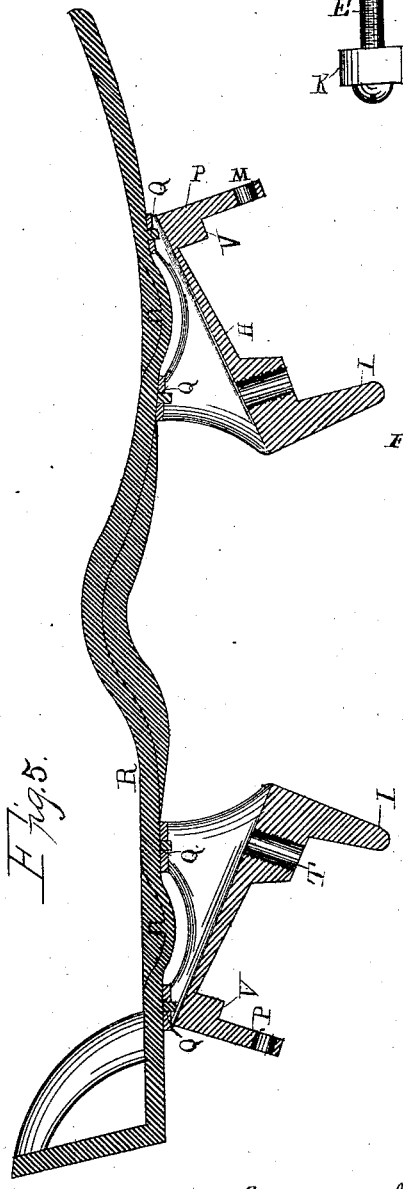
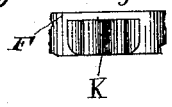


Fig. 6.



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UNITED STATES PATENT OFFICE.

THOMPSON M. CONNER AND THEODORE M. CONNER, OF RICHMOND, INDIANA.

ROLLER-SKATE.

SPECIFICATION forming part of Letters Patent No. 302,241, dated July 22, 1884.

Application filed June 12, 1884. (No model.)

To all whom it may concern:

Be it known that we, THOMPSON M. CONNER and THEODORE M. CONNER, of Richmond, Wayne county, and State of Indiana, have invented certain new and useful Improvements in Roller-Skates, of which the following is a specification in such full, clear, and exact terms as will enable others to construct and use the same, reference being had to the accompanying drawings, forming part of said specification, in which—

Figure 1 is a perspective view of the entire skate according to the preferred construction. Fig. 2 is a longitudinal vertical section. Fig. 3 is a detailed view of the cushion or spring, screw, and rubber-holder. Fig. 4 is a transverse section of rubber-holder and rocking plate, pivot, and stool. Fig. 5 is a longitudinal vertical section of the foot-plate, rivet, and stool. Fig. 6 is a sectional detail view of the same devices.

Our invention relates to a novel construction and arrangement of the pressure-plates, to novel means of preventing the undue lateral expansion of the rubber springs in a skate, and to novel means of pivoting the pressure-plate to skates; and it also consists in certain features of construction and combination hereinafter more particularly described, and set forth in the claims appended.

Our invention has for its object the production of a roller-skate combining durability and simplicity in its construction, and which can be readily and easily taken apart and put together, and in which there is great strength and quickness of adjustment, in which the rubber is protected from undue expansion, in means for giving any degree of strength or firmness to the rocking motion, and an elastic spring or cushion in a skate, to prevent sudden jars when passing over slight obstructions, and of great facility of turning movements.

In the drawings, A, Fig. 1, represents the wheels of our improved skate; B, the axle; C, the axle-support; D, the pins that hold the wheels in position; E, the screw that holds the rubber-holder in place, while the other end is held in position by ledge U and by pivot N, resting in notch W; T, the screw-hole in hanger. G is the rubber spring. F is the rubber-holder encircling the rubber. H is the hanger that supports the working parts. I is the lug that helps the screw to hold the rubber-holder in position. K is the notch in the end of the rubber-holder that engages with supporting-lug I. K′ is the lower pivot to the pressure-plate L, which pivots in hole M in rubber-holder F, while the other end of pressure-plate L is supported on pivot N in hole O in standard P on hanger H, while the hanger is held firmly in position by the stationary rivets Q, cast on the malleable iron or other soft-metal skate-plate R, and passing down through the cast or drilled countersunk holes S in the hangers H, which are firmly riveted to the plate thereby.

When our skate is constructed as shown, and it is desired to make a strong, firm spring and decrease the rocking motion of the foot by compressing the rubber, it is only necessary to turn the screw to the right, which may be made for a screw-driver or a thumb-screw, and when it is desired to make it a soft, easy elastic spring the screw has only to be turned the other way, when the pressure of the rocking plate will be released and the object accomplished. If it is desired to relieve the skate of the cushion or spring, it is done by loosening the screw, and if it is desired to diminish the cushion movement it is done by tightening the screw. Thus it will be seen that when new beginners wish to skate on our skate the tightening of the screw makes a firm slightly-elastic or non-elastic skate vertically, as desired, and restricts the rocking motion of the skate-plate by compressing the rubber; but when experts wish to use it the loosening of the screw not only secures a larger easy rocking motion to the skate-plate, but a soft, easy cushion-skate, while the very oblique position in which the pivoted pressure-plate rests gives a large amount of crimp to the skate, and makes it capable of making very short curves when in use.

Having thus described the nature, construction, and operation of our invention, what we claim as new and useful, and desire to secure by Letters Patent, is—

1. In a roller-skate, the soft metallic skate-plate R, in combination with the hanger H and lugs Q, said lugs being cast integral with said plate, and the stool firmly attached there-

to by riveting, for the purposes and in the manner substantially as herein set forth and described.

2. In a roller-skate, the oscillating pressure-plate L, having pivots N and K, one end pivoted to rigid stud P on hanger H, while the other end is pivoted in the adjustable rubber-holder F, arranged and operated as set forth, for the purposes specified.

3. In a roller-skate, the encircling rubber-holder F, having hole U near its lower end for its free movement on the screw, and open notch at the other end, in combination with ledge V, screw E, rubber spring G, and stool H, for the purposes and uses herein set forth.

4. In a roller-skate, the wheels A, axle B, axle-support C, and pressure-plate L, in combination with screw E, rubber-holder F, having the bearing M for the pivot K′, rubber spring G, hanger H, and skate-plate R, constructed and used for the purposes and in the manner herein set forth.

5. In a roller-skate, the screw E, rubber-holder F, pressure-plate L, rubber spring G, and hanger H, in combination with notch W and lug I, when constructed and operating together for the purposes and in the manner herein set forth and described.

In testimony whereof we have hereunto set our hands and seals this 5th day of June, 1884.

THOMPSON M. CONNER. [L. S.]
THEODORE M. CONNER. [L. S.]

Witnesses:
J. W. TAYLOR,
W. P. JAY.