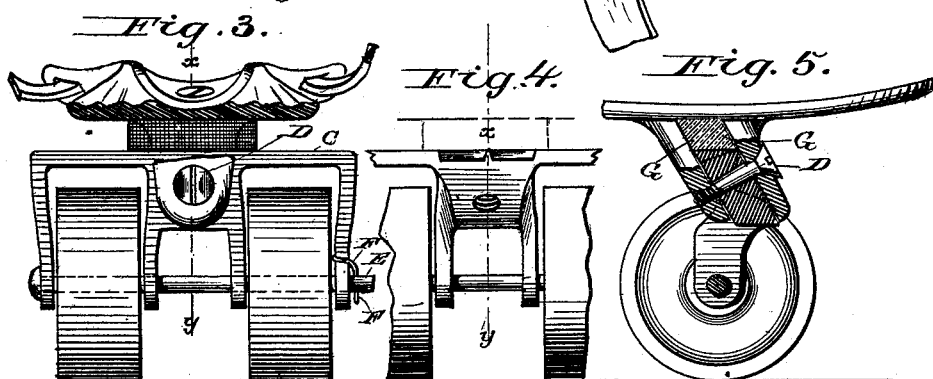
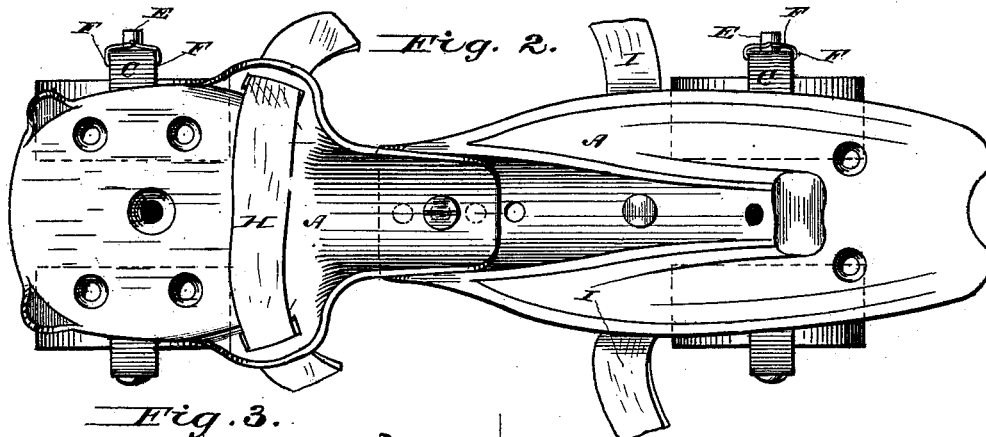
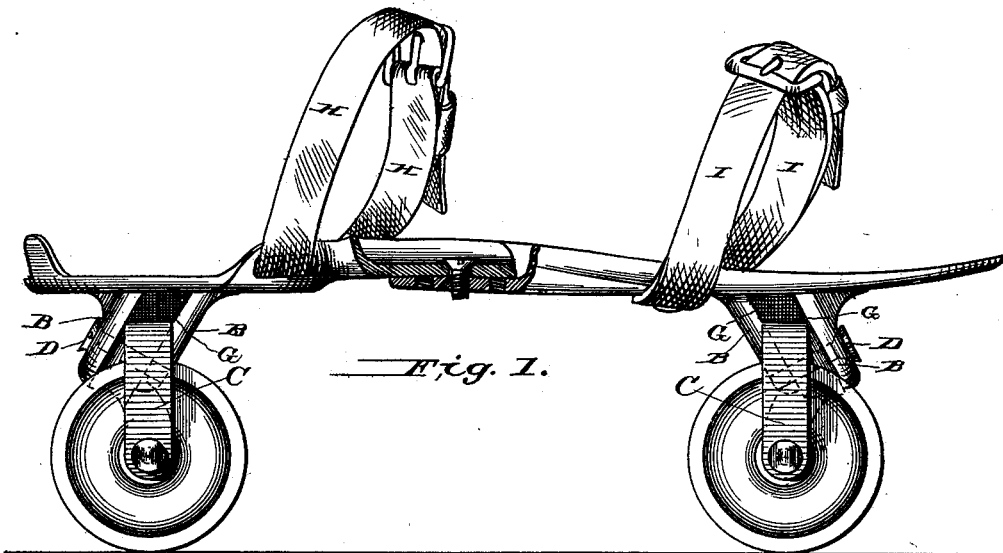


W. F. CORNELIUS.
Roller-Skate.

No. 213,546.

Patented Mar. 25, 1879.



Attest:
K. L. Perrine.
Ambou.

Wilber F. Cornelius.
Inventor.
By N. J. Abbott.
Atty.

UNITED STATES PATENT OFFICE.

WILBER F. CORNELIUS, OF MUNCIE, INDIANA, ASSIGNOR OF ONE-HALF HIS
RIGHT TO THADDEUS A. NEELY.

IMPROVEMENT IN ROLLER-SKATES.

Specification forming part of Letters Patent No. **213,546**, dated March 25, 1879; application filed
October 19, 1878.

To all whom it may concern:

Be it known that I, WILBER F. CORNELIUS, of Muncie, in the county of Delaware and State of Indiana, have invented certain new and useful Improvements in Roller-Skates; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification.

Figure 1 is a side elevation with a section cut away, so as to show the mode of adjustment to varying sizes. Fig. 2 is a plan view. Fig. 3 is an end view, partly in section, so as to show the spring. Fig. 4 is a detail view, and Fig. 5 is a section taken upon the line *x y* of Fig. 3.

A is the extension foot-rest, made in two pieces. The heel-piece of the foot-rest is made to slide over the rear part of the front piece, said piece being provided with holes, so they may be screwed or bolted securely together, the holes being bored one-half inch apart, permitting the skate to be adjusted to three or four different sizes by changing the screw or bolt to the several different holes.

B B are the slotted inclined bevel-plates on the bottom of the foot-rest, two on the rear and two on the front part of the same.

C C are the hangers, to which the inclined bevel-plates B B are attached in the center by means of coupling-screws D D, which pass through the first lug of the slotted bevel-plates B B, then through the hangers C C, and then screwed into the second lug of the slotted bevel-plates B B, which makes a secure fastening, and also makes a pivot for the hangers C C. Thus, when a side pressure is made on the foot-rest A the wheels and hangers C C must curve in the same proportion to the incline on the slotted bevel-plates B B, thus giving the foot-rest all the side and curved motions necessary in scientific skating.

The arms of the hangers C C are gouged out on the inside near the top, as shown in Fig. 3, so that when the wheels revolve it prevents any friction of the wheels against the side of the hangers.

E is the axle on which the wheels revolve, provided with a hole in one end to secure it in its proper place.

F is the wire bent around the arm of the hanger, and the two points bent downward, forming a slide on the arm of the hanger, then passing down through the hole in the axle E; then the points being bent outward holds it firmly in its place, thus making a slide-fastening both durable and cheap.

G is the rubber spring or cushion, so adjusted between the slotted bevel-plates B B as to bring the hangers C C and foot-rest to their natural upright position after having a side pressure on them.

The rubber springs G G can be so adjusted by making them extend farther out on the hangers C C as to make the hangers C C have but little side or curved motion, thereby making the skate roll in a straight line, making what is known as a "plain skate."

H I are the heel and toe straps, by means of which the skate is held firmly to the foot. The heel-strap H is held to the foot-rest by passing on the outside of a lug, then over the heel of the foot-rest, and through a corresponding lug on the opposite side, making a strong and secure fastening.

The toe-strap I is fastened by means of a rivet directly back of the front hanger, both as shown in Fig. 2.

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

1. The extension foot-rest A, provided with beveled plates B, in combination with spring G and hangers C, substantially as set forth.

2. The extension foot-rest A, provided with screw-fastening in the center of foot-rest, and lugs on the heel part of the foot-rest, for securing the strap H and bevel-plates B B, substantially as shown and described.

3. The slide-fastening F, constructed as described, in combination with hanger C, substantially as and for the purpose set forth.

4. The foot-rest A and plates B, in combination with the screw D and hangers C, substantially as shown and described.

In testimony that I claim the foregoing as

my own I affix my signature in presence of two witnesses.

WILBER F. CORNELIUS.

Witnesses:

HARRY BIRT,
T. J. BLOUNT.