(No Model.)

E. C. PHILLIPS.

ROLLER SKATE.

No. 292,850. Patented Feb. 5, 1884.

Fig. 1.

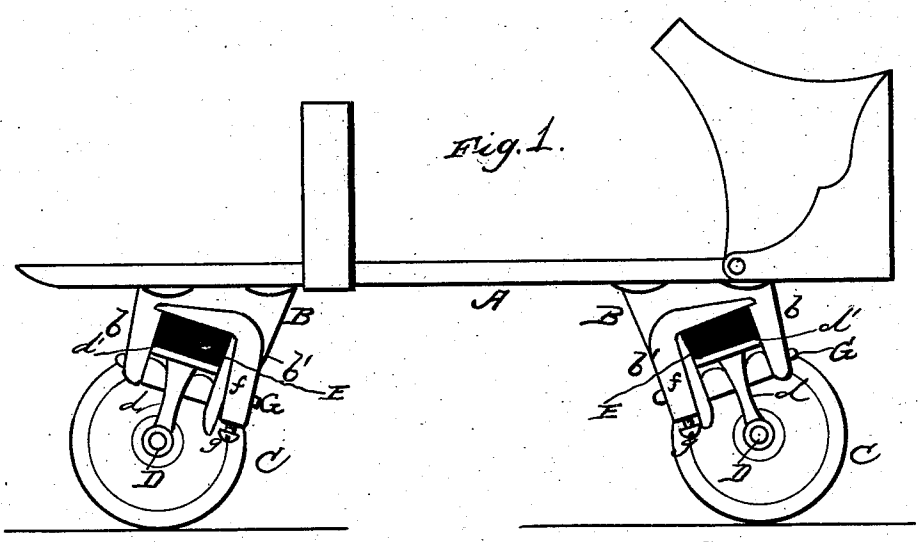


Fig. 2.

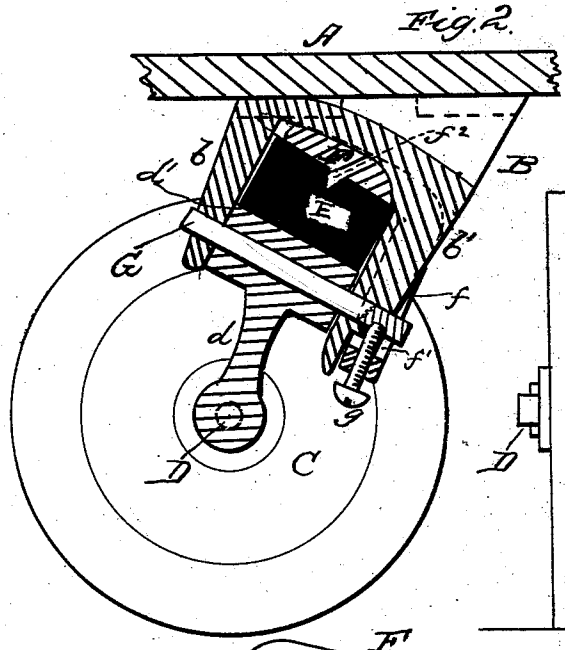
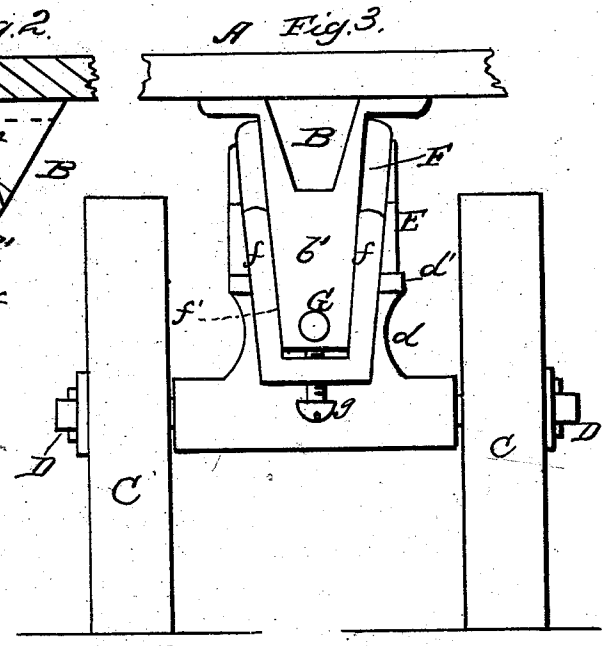


Fig. 3.



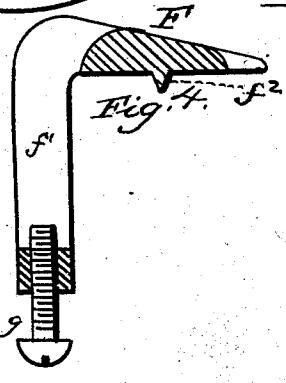


Fig. 4.

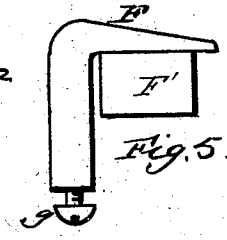


Fig. 5.

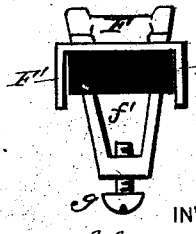


Fig. 6.

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UNITED STATES PATENT OFFICE.

ELWOOD C. PHILLIPS, OF RICHMOND, INDIANA.

ROLLER-SKATE.

SPECIFICATION forming part of Letters Patent No. 292,850, dated February 5, 1884.

Application filed December 14, 1883. (No model.)

To all whom it may concern:

Be it known that I, ELWOOD C. PHILLIPS, a citizen of the United States, residing at Richmond, in the county of Wayne and State of Indiana, have invented certain new and useful Improvements in Roller-Skates; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to that class of roller-skates in which the foot-piece has a sidewise rocking motion, and is provided with two pairs of rollers—one pair at the toe and the other pair at the heel portion of the skate; and it has for its object the production of skates that, while being light and inexpensive, will be strong and durable; and to this end the invention consists in novel features of construction and combination and arrangement of parts, as will be fully hereinafter described, and specifically pointed out in the claims.

In the accompanying drawings, Figure 1 represents a side elevation of my improved skate having one roller of each pair removed; Fig. 2, a longitudinal vertical central section through the rear or front portion of the skate. Fig. 3 is a front view. Figs. 4, 5, and 6 are detail views.

In the drawings, A represents the sole or foot plate of the skate, formed of wood or metal, as may be preferred, and provided with toe and heel straps, as usual, for securing it to the foot of the wearer.

To the under side of the foot or sole plate A, and near the heel and toe, are secured metallic plates B B, each one having downwardly-projecting hangers *b b'*, said hangers having perforations near their lower ends, for the purpose hereinafter described. The rollers C C are loosely mounted on axles D D, arranged transversely under the heel and toe portions of the foot or sole piece, and said axles are cast integral with standards *d d*, terminating at their upper portions in flat seats *d' d'*, upon which rest the rubber cushions E E. The standards *d d* are perforated longitudinally immediately beneath the seats *d' d'*, for the purpose hereinafter described.

Interposed between the plates B B and the rubber cushions and their seats are plates F F, which rest immediately upon the rubber cushions, and upon which in turn rest the plates B B. Said plates F F each have a downwardly-projecting flange, *f*, slotted, as at *f'*, said flange being at a right angle to the plate F. Each plate F, at about its center, is provided with a spur, f^2, which is adapted to enter a corresponding depression in the rubber cushion, and serves to maintain said cushion in position, while at the same time it does not interfere with the proper operation of said cushion. The lower portion of the downwardly-projecting flange *f* is provided with a screw-threaded perforation to receive a screw, *g*, for the purpose hereinafter described. The plates B B are adapted to rest immediately upon the plates F F, said plates F F being embraced between the hangers *b b'*, the hangers *b'* passing down between the slotted flanges *f*, and said hangers *b b'* straddling the cushions E E.

After the parts are placed in position, as above described, a pin, G, is passed through the perforations in the hangers *b b'*, and through the perforations in the standards *d d*, above described, said pins serving not only to secure the parts in position, but also forming pivots upon which the foot or sole plate of the skate is adapted to rock. Said pins G are each provided at one end with a recess adapted to register with the perforation in the lower end of the flange *f* of the plate F, and the screw *g* enters said recess and firmly locks said pin in place against all liability of accidental displacement.

In the event of the rubber cushions E E becoming worn, the wear may be taken up or compensated for by screwing up the screws *g g*, thus compressing said cushions between their seats and the plates F F.

To prevent the oil used for lubricating the wheels or pin G from coming in contact with and injuring the rubber cushions, I provide the plate F with side wings, F', extending downwardly past the lower edge of said cushions. These wings F' may be formed in one piece with the plates F, or of separate pieces.

If, for any reason, it should prove desirable to remove the cushions or detach the parts, the screws *g g* have only to be loosened, when the pins G G may be withdrawn and the parts detached.

From the above description it will be readily seen that while the foot or sole piece of the skate permits of a free rocking motion upon

the rollers, the wear of the cushions can be compensated for without detaching or disarranging any of the parts.

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

1. In a roller-skate, the combination of the plate B, having downwardly-projecting hangers *b b'*, the plate F, having slotted flange *f*, the seat *d'*, elastic cushion E, and pin G, constructed and arranged substantially as described, and for the purpose set forth.

2. In a roller-skate, the combination of the plate B, having downwardly-projecting hangers *b b'*, the plate F, having slotted flange *f*, the seat *d'*, elastic cushion E, pin G, and screw *g*, substantially as and for the purpose described.

3. In a roller-skate, the combination of the plate B, having downwardly-projecting hangers *b b'*, the plate F, having slotted flange *f*, and provided upon its under side with a spur, *f²*, the elastic cushion E, having a depression to receive said spur, the seat *d'*, the pin G, having a recess near one end, and the screw *g*, all constructed and arranged in the manner described, and for the purpose set forth.

4. In a roller-skate, the combination of the plate B, having downwardly-projecting hangers *b b'*, the plate F, having side wings, F', and slotted flange *f*, the seat *d'*, elastic cushion E, and pin G, constructed and arranged substantially as described, and for the purpose set forth.

In testimony whereof I affix my signature in presence of two witnesses.

ELWOOD C. PHILLIPS.

Witnesses:

WILLIAM P. JAY,

JAMES W. HENDERSON.