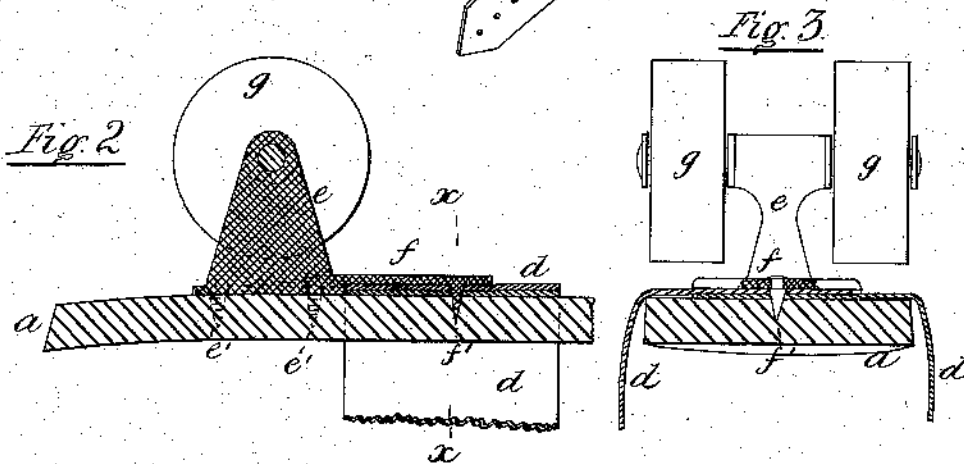
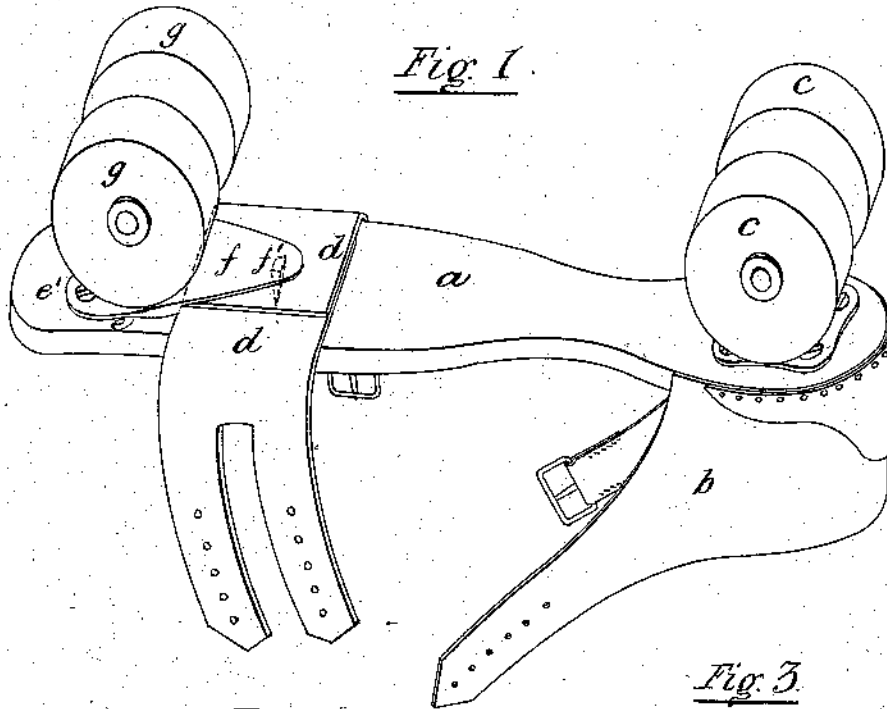


(No Model.)

J. G. NORMAN.
Roller Skate.

No. 242,966.

Patented June 14, 1881.



Witnesses.

A. D. Williams
John D. Tholover

John G. Norman.
Inventor.
per Alfred Thelock
Atty.

UNITED STATES PATENT OFFICE.

JOHN G. NORMAN, OF NEW YORK, N. Y.

ROLLER-SKATE.

SPECIFICATION forming part of Letters Patent No. 242,966, dated June 14, 1881.

Application filed April 21, 1881. (No model.)

To all whom it may concern:

Be it known that I, JOHN G. NORMAN, a citizen of the United States, residing at New York, county and State of New York, have invented certain new and useful Improvements in Roller-Skates, of which the following is a specification.

This invention in roller-skates relates to the manner of connecting the retaining-straps to the sole-piece, and has for its object to simplify and cheapen such connection, as well as to strengthen the bracket to which the rollers are attached.

The invention consists in forming on the roller-bracket a projecting flange to overlie the ends of the retaining-straps on the bottom of the sole-piece. Said projecting flange is provided with a pointed stud adapted to pass through the ends of the straps and into the under side of the sole-piece, thereby firmly securing the straps to the sole-piece and obviating the necessity of using screws or other devices heretofore used for this purpose.

To describe my invention more particularly, I will now refer to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a perspective view of a roller-skate, showing my improvements thereon. Fig. 2 is a part longitudinal section of the same, and Fig. 3 is a transverse section cut through the line *x x*.

The wooden sole-piece *a*, the instep-strap *b*, and heel-rollers *c* are of the ordinary construction.

The straps *d*, which secure the front part of the skate to the foot, are, in roller-skates as now made, generally fastened to the under side of the sole-piece *a* by means of screws; and to save the trouble and expense attending the use of these screws I construct the front roller-bracket, *e*, as shown—that is, with the projecting flange *f*, which extends over the overlapping ends of the two straps *d d* at the center of the sole-piece *a*, so as to press on them when the bracket *e* is secured to the sole-piece by means of the screws *e'*. The flange *f* is provided with the pointed stud *f'*, which passes through holes in the ends of the straps *d d* and into the sole-piece, thereby firmly holding the straps in place.

Only one pointed stud, *f'*, is shown, and is sufficient in all ordinary cases to retain the straps permanently in place; but, if desired, two or more studs may be formed on the flange *f*, and the pointed stud *f'* may be cast on the flange *f*, as shown at Fig. 2, or be made separately and then riveted thereto, as shown at Fig. 3.

The front rollers, *g g*, are fitted on a spindle passing through the bracket *e*, and the heel-rollers *c* are fitted to their supporting-bracket in a similar manner.

If two sets of straps are required at the front part of the skate, then I propose to make the bracket *e* with two projecting flanges provided with pointed studs, one at the front and the other at the rear of the bracket; and it is obvious that this improvement may be applied to the heel-bracket by changing the form of the strap *b*.

It will be observed that the flange *f* increases the bearing-surface of the bracket *e*, so that the bracket is less liable to become loosened on the sole-piece, and that the bracket *e* and straps *d d* by this improvement may be secured to the sole-piece *a* in the same time as is now required to secure the bracket only to the sole-piece.

Having now described my invention, I wish it understood that I do not claim, broadly, the roller-bracket of a roller-skate provided with a flange, under which the retaining-straps are held; but—

What I claim, and desire to secure by Letters Patent, is—

1. The improvement in roller-skates, consisting of the roller-bracket provided with a flange and pointed studs adapted to secure the straps to the sole-piece, substantially as set forth.

2. The bracket *e*, provided with the flange *f* and stud *f'*, in combination with the sole-piece *a* and straps *d d*, substantially as and for the purpose set forth.

In witness whereof I have hereunto set my hand this 18th day of April, A. D. 1881.

JOHN G. NORMAN.

Witnesses:

ALFRED SHEDLOCK,
H. D. WILLIAMS.