

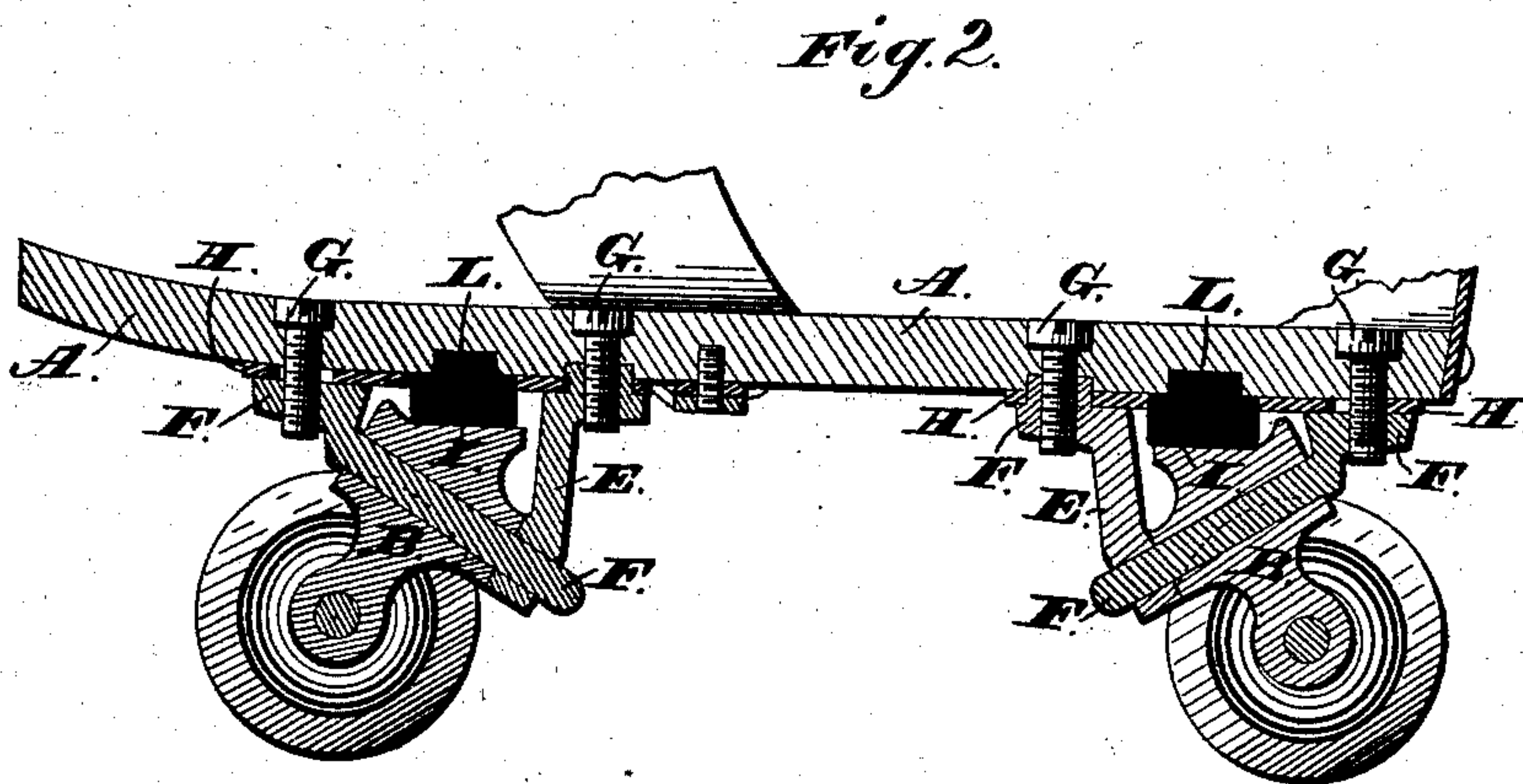
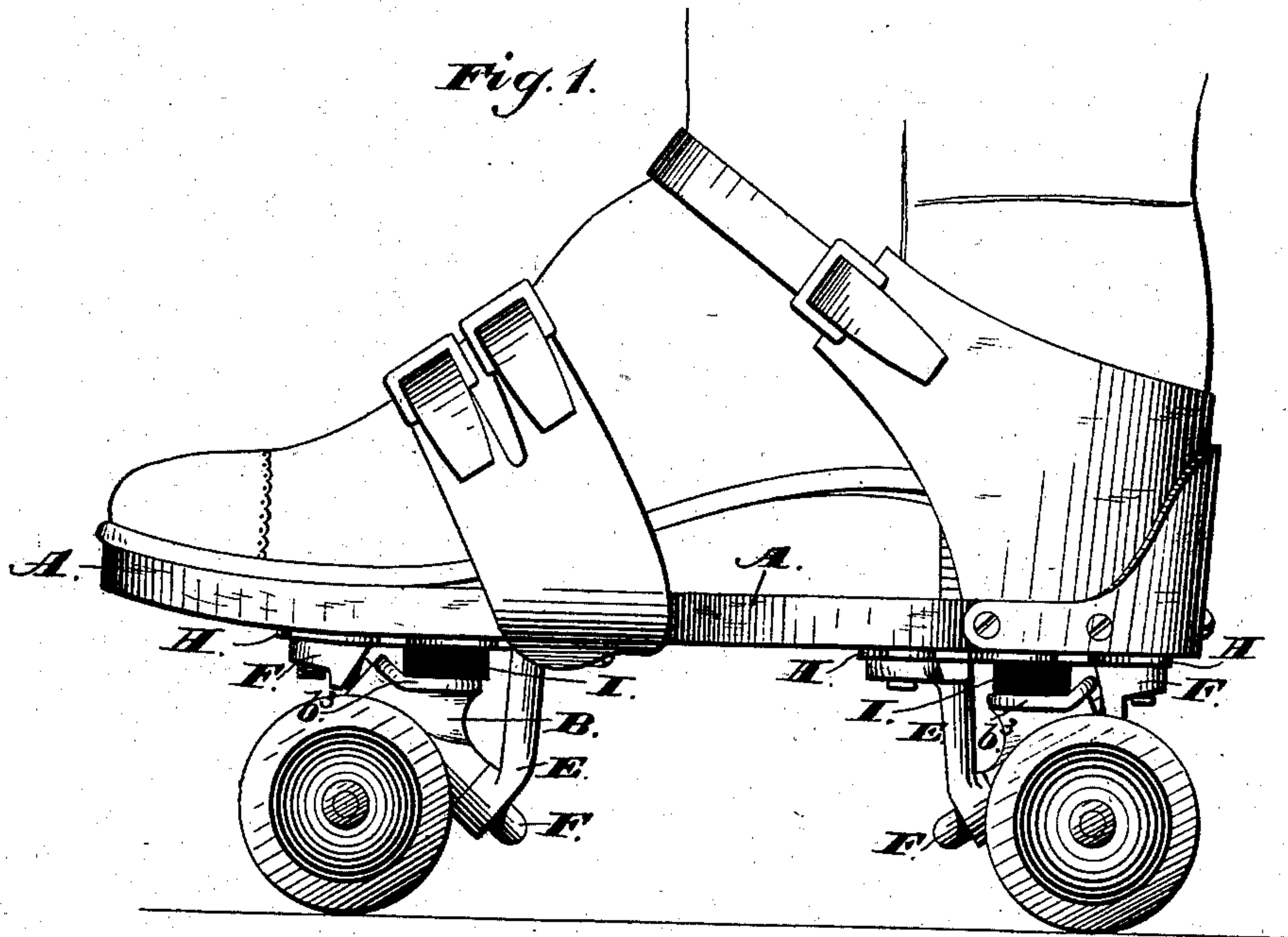
(Model.)

2 Sheets—Sheet 1.

S. WINSLOW.
ROLLER SKATE.

No. 255,065.

Patented Mar. 14, 1882.



Witnesses:

Jas. E. Hutchinson.

J. A. Rutherford

Inventor.

Sam'l Winslow,

By his Attorney,

James L. Norris.

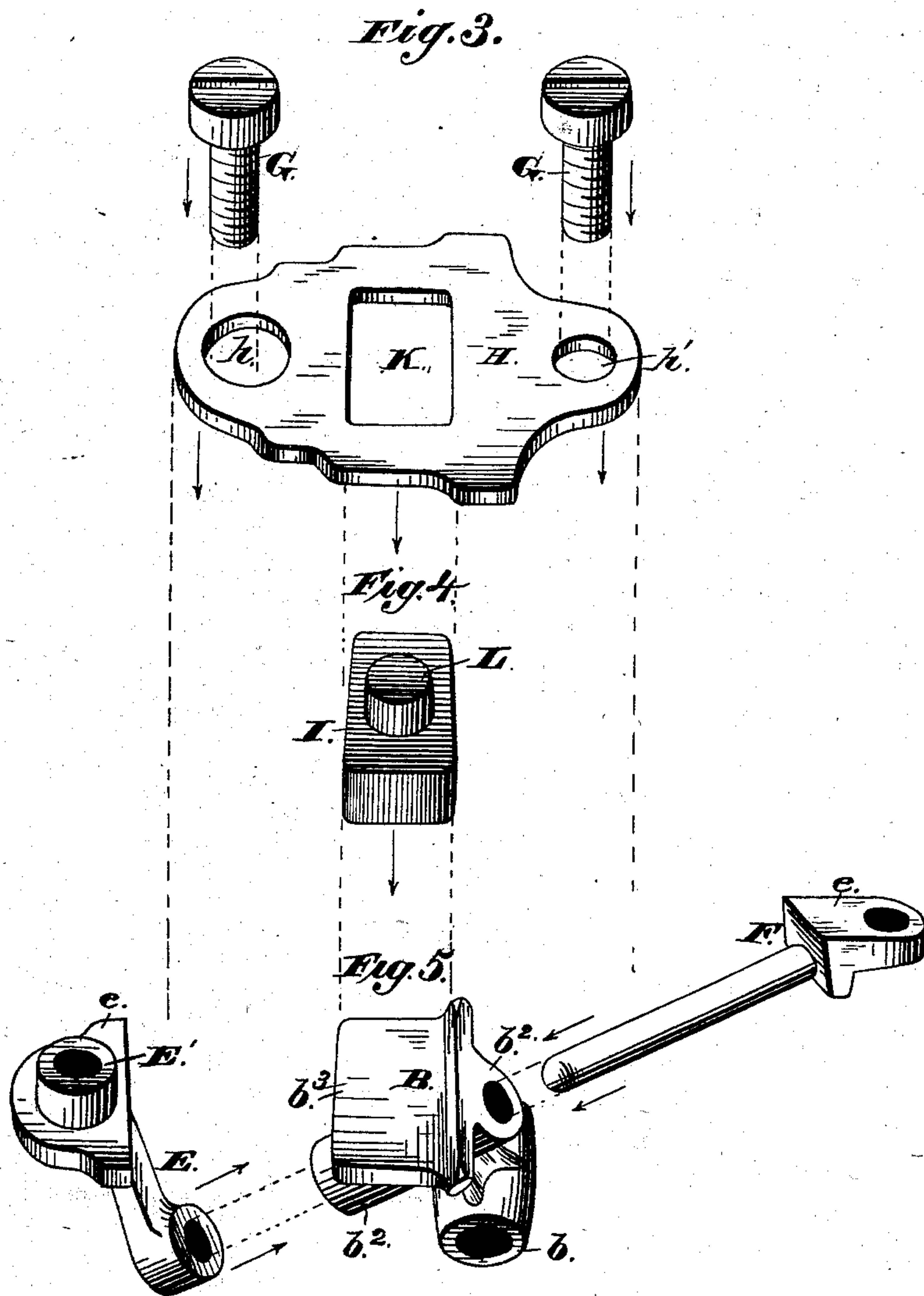
(Model.)

2 Sheets—Sheet 2.

S. WINSLOW
ROLLER SKATE.

No. 255,065.

Patented Mar. 14, 1882.



Witnesses:

Jas. E. Hutchinson.
J. A. Rutherford.

Inventor.

Sam'l Winslow,
By his Attorney,
James L. Norris.

UNITED STATES PATENT OFFICE.

SAMUEL WINSLOW, OF WORCESTER, MASSACHUSETTS.

ROLLER-SKATE.

SPECIFICATION forming part of Letters Patent No. 255,065, dated March 14, 1882.

Application filed January 25, 1882. (Model.)

To all whom it may concern:

Be it known that I, SAMUEL WINSLOW, a citizen of the United States, residing at Worcester, in the county of Worcester and State of Massachusetts, have invented new and useful Improvements in Roller-Skates, of which the following is a specification.

This invention relates to an improvement upon the roller-skate secured to me by Letters Patent of the United States, bearing date April 26, 1881, and numbered 240,800.

In my present skate the foot-piece has a side-wise-rocking motion, and is provided with two pairs of rollers front and rear, and the roller-carrier is swiveled upon an inclined pin that is supported at its lower forward end in a bracket or hanger, and held at its upper end by a bracket or hanger, as shown in my former patent. In said patent, however, the plate from which the hanger depends is secured directly against the under side of the foot-piece, while a separate plate or bracket, which holds the upper end of the inclined pin, is also secured directly to the bottom of the foot-piece. Under my present invention, in lieu of securing these plates directly against the bottom side of the foot-piece, I interpose between the foot-piece and the top faces of the two plates a single metal plate which is formed at one end with a perforation for one of the fasteningscrews, and at the opposite end of this plate I form a somewhat larger perforation for receiving a boss upon the plate that is provided with the long hanger, the fastening screw in this instance passing through the foot-piece and entering a screw-threaded socket in the boss.

In my patent above referred to the two plates are formed with notches or recesses for the wedge-shaped elastic block that is held between the under side of the foot-piece and the inclined plate upon the top side of swiveled roller carrier; but in my present invention the single plate that is interposed between the two supports for a swivel-pin and the foot-piece has a central opening for the elastic block, and in the under side of the foot-piece is formed a recess into which a teat upon the elastic block is received.

Under my present construction the two supports for the inclined pin, which are practically

a long and a short bracket or hanger, in lieu of being clamped against the foot-piece, are held against a single metal plate which in effect connects them together, thus giving increased strength and rigidity to the structure; and it will also be found that the rigidity of such connection formed by clamping the hangers or brackets against a firm unyielding body, such as the said intermediate plate, will be more lasting than where they are held in immediate contact with a wooden foot-piece the material of which will by constant pressure be liable to yield to some extent. The elastic block will be more securely held in place by the walls of an opening formed centrally through a plate secured at both ends to the foot-piece, and the said elastic block will also be more securely held against any shifting or lateral displacement by reason of its teat received into a recess formed in the foot-piece of the skate. Finally, the several parts constituting the connection between the roller-axle and the foot-piece can be readily taken apart or put together, as occasion may require.

In the accompanying drawings, Figure 1 is a side elevation of a roller-skate with my improvement applied; Fig. 2, a longitudinal section thereof, taken on a central vertical plane. Fig. 3 represents the screws and the bed-plate that is designed to be secured to the bottom side of the foot-piece. Fig. 4 is a perspective view of the elastic cushion, and Fig. 5 represents in detail the swiveling or rocking roller-carrier, the swivel-pin, and the two hangers or brackets.

A designates the foot-piece, provided with heel and toe straps, as usual.

The rocking roller-carrier B comprises a transverse tubular bearing, *b*, for the roller-axle upon which the rollers are loosely mounted, a longitudinal inclined sleeve, *b*², united by means of a short neck to said tubular bearing and adapted to constitute a bearing for the inclined pin, upon which the roller-carrier rocks, and a horizontal plate or seat, *b*³, that is formed upon the inclined sleeve and adapted to serve as a seat or support for the elastic block.

The front and long bracket or hanger E is formed at its lower end with a socket which receives the lower end of the inclined swivel-

pin, and the rear short bracket, F, is preferably made integral with the upper end of the said pin. These hangers are connected with the foot-piece of the skate by means of screws G G, that are passed through the foot-piece from its upper side, and between the upper flat faces, *e e*, of these two hangers and the under side of the foot-piece is interposed a single metal bed-plate, H, against which the two hangers will be clamped and held by the screws. This plate has at one end an opening, *h*, into which is fitted a boss, E', that is formed upon the top side of the long hanger E, the said boss having a screw-threaded bore which receives the screw. The swivel bracket or hanger F has, however, a plane upper side that fits against the bed-plate, which at this end is formed with a perforation, *h'*, for the remaining fastening-screw, which, passing through the foot-piece and the bed-plate, enters a screw-threaded hole in the small hanger.

I indicates the elastic india-rubber block, which constitutes an elastic support tending to hold the foot-piece erect, but allowing it to yield to accommodate the movements of the skater's foot. The walls of the rectangular opening K, that is formed through the center of the bed-plate, embrace the sides to the elastic block which is seated upon the seat or plate on the rocking roller-carrier. The elastic block is provided upon its upper side with a teat or projection, L, and the foot-piece is formed with a screw into which the said teat is fitted. It will thus be seen that, while a portion of the top side of the elastic block fits against the under side of the foot-piece, its teat is held in a recess in the latter, and that the block is further held by the walls of the opening in the bed-plate. That portion of the bed-plate above the seat or plate on the rocking roller-casing is made somewhat greater in width than the said plate on the roller-carrier, so that the rocking of the foot-piece too far to either side, and consequently twisting or unnecessary straining of the ankle, will be avoided by either of the corners *h*² of the plate H striking against the bed-plate. In my former patent the lugs upon the plate that is formed with the sleeve for the inclined pin strike di-

rectly against the foot-piece; but in the present instance the bed-plate receives the shock, and, being of metal, will not become soon worn or indented.

What I claim is—

1. In a roller-skate, the combination, essentially as hereinbefore described, of the foot-piece, two depending front and rear stationary brackets or hangers supporting an inclined pin arranged substantially coincident with a central longitudinal line through the foot-piece, a roller-support arranged on said pin, a flat metallic plate interposed between the said stationary brackets or hangers and the under side of the foot-piece and constituting a broad plane bearing for the said brackets or hangers, and attaching screws or bolts passing through both the brackets or hangers and the flat plate, for the purposes set forth.

2. In a roller-skate, the metal bed-plate secured to the under side of the foot-piece and interposed between the said foot-piece and the hanger supporting the inclined pin upon which the rocking roller-carrier is mounted, said bed-plate being formed with an opening for an elastic block that is located between the foot-piece and the rocking roller-carrier, substantially as described.

3. In a roller-skate, the elastic block located between the foot-piece and the rocking roller-carrier, and provided with a teat received in a recess in the under side of the foot-piece, substantially as described.

4. The combination, in a roller-skate, of the foot-piece with the long and short hangers supporting the inclined pin upon which the rocking bearing is mounted, and the metal bed-plate H, secured directly to the foot-piece and interposed between the foot-piece and the hangers, said bed-plate being formed at one end with an opening receiving a boss upon one of the standards, substantially as described.

In testimony whereof I have hereunto set my hand in the presence of two subscribing witnesses.

SAMUEL WINSLOW.

Witnesses:

ISAAC D. GOULDING,
SAMUEL WELTY.