T. SPACIE.

ROLLER SKATE.

APPLICATION FILED AUG. 11, 1908.

917,499.

Patented Apr. 6, 1909.

2 SHEETS—SHEET 1.

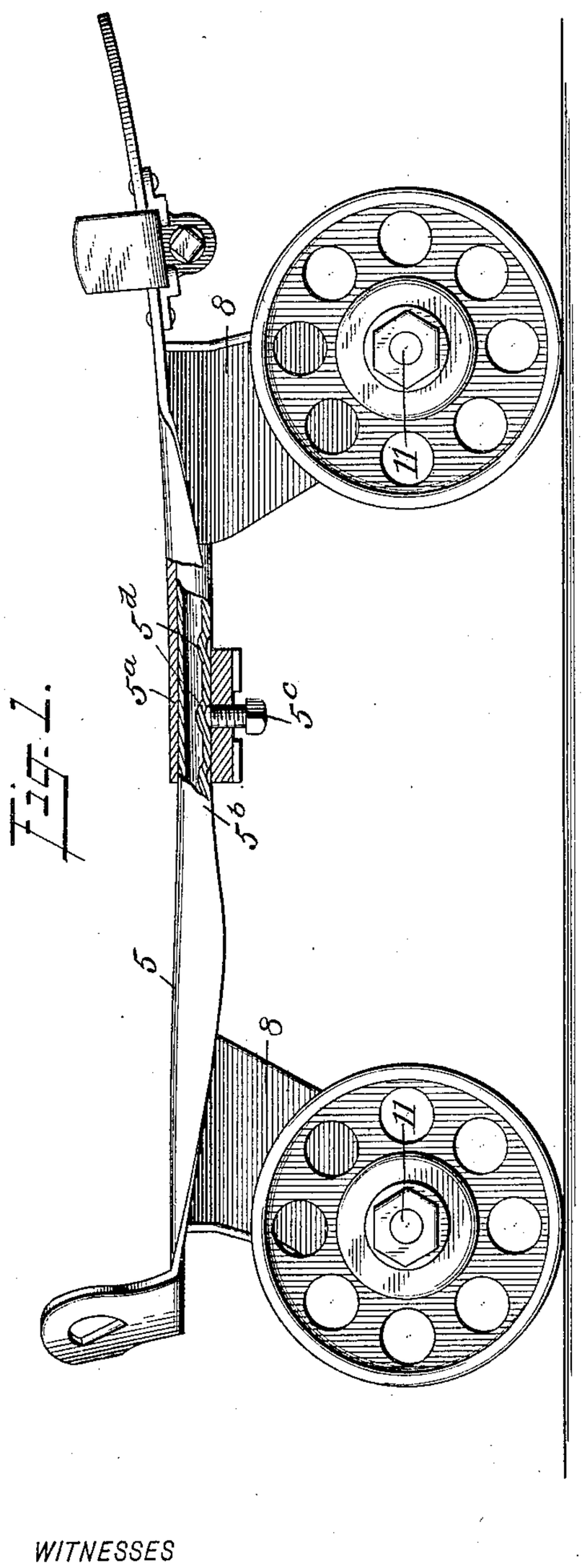

Fig. 1.

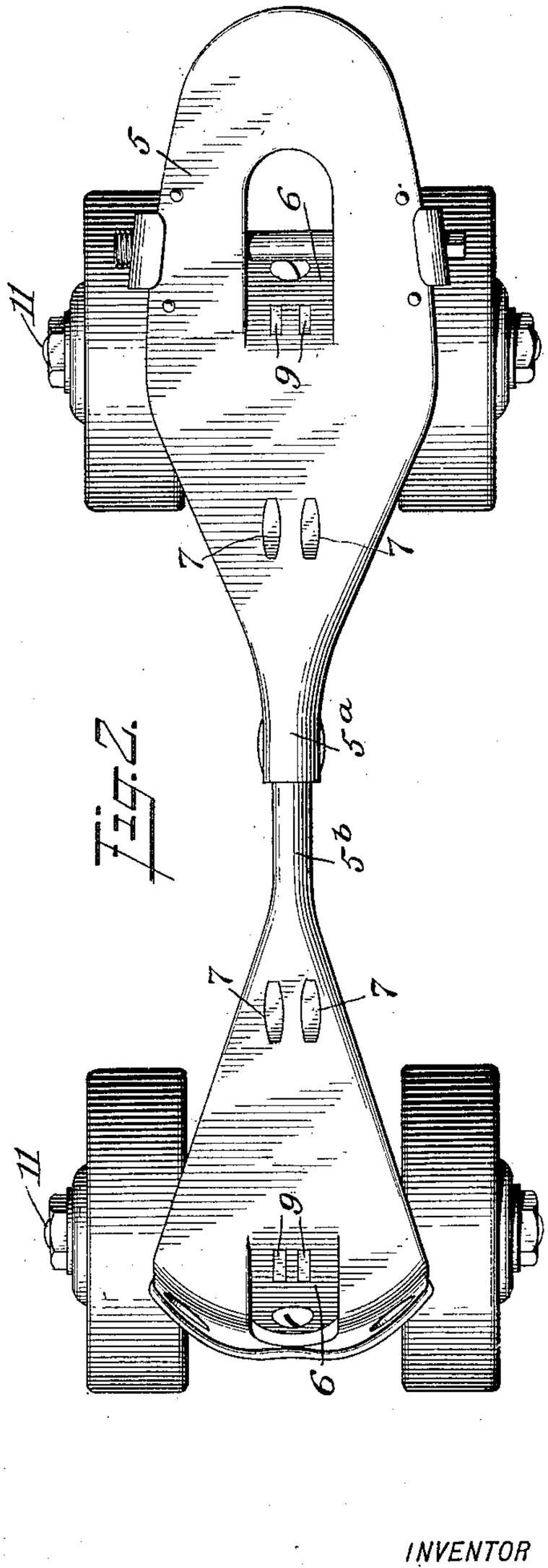

Fig. 2.

WITNESSES

INVENTOR

Thomas Spacie

BY Munn & Co

ATTORNEYS

T. SPACIE.

ROLLER SKATE.

APPLICATION FILED AUG. 11, 1908.

917,499.

Patented Apr. 6, 1909.

2 SHEETS—SHEET 2.

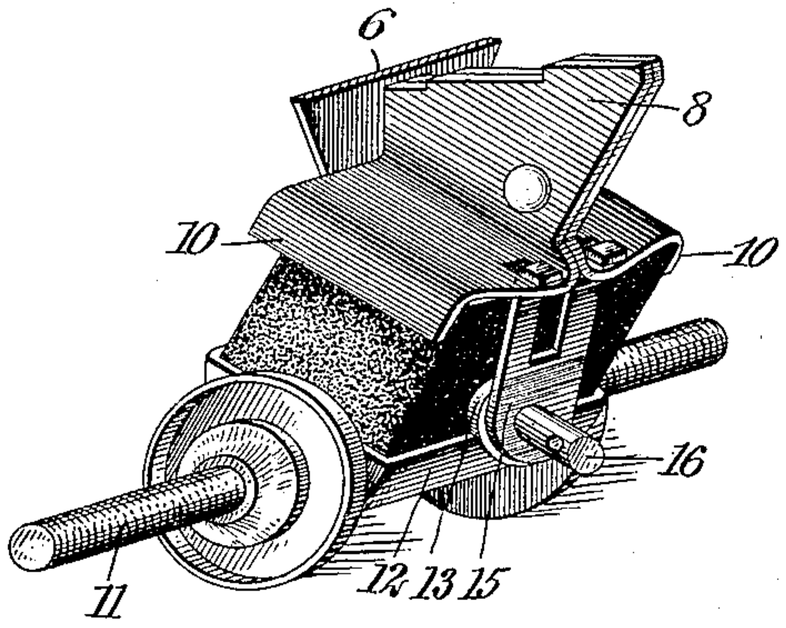

Fig. 3

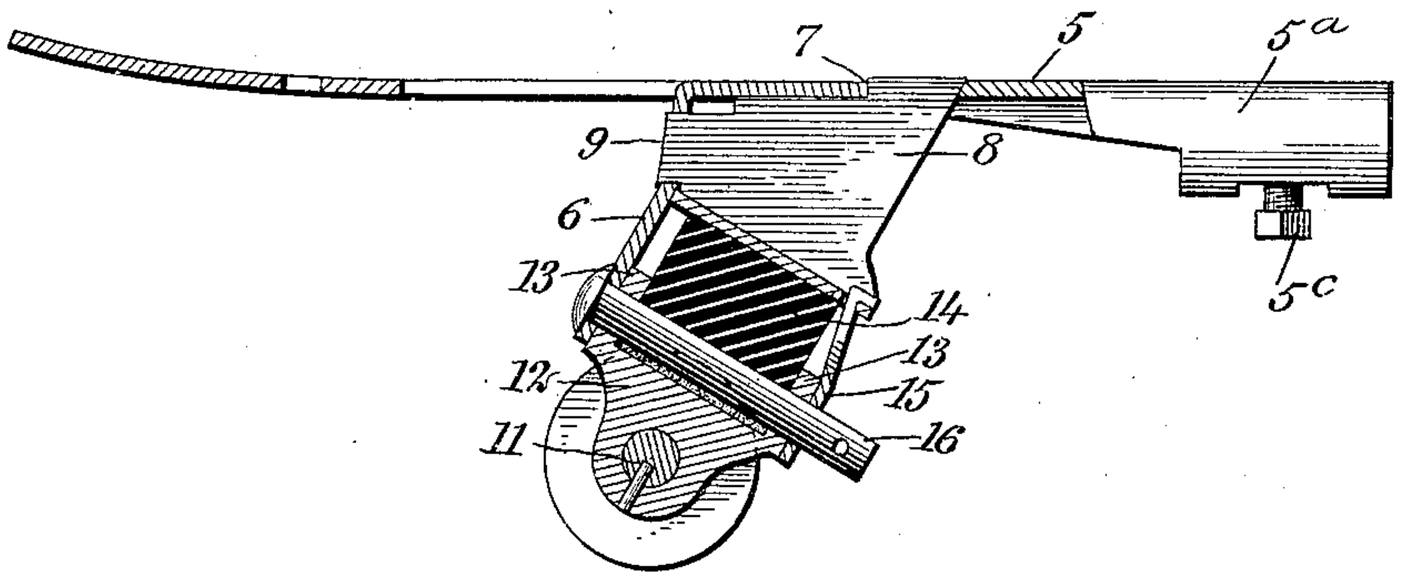

Fig. 4

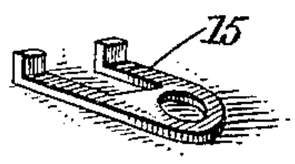

Fig. 5

WITNESSES

E. G. Bromley,

INVENTOR

Thomas Spacie

BY Munn & Co.

ATTORNEYS

UNITED STATES PATENT OFFICE.

THOMAS SPACIE, OF CHICAGO, ILLINOIS.

ROLLER-SKATE.

No. 917,499. Specification of Letters Patent. Patented April 6, 1909.

Application filed August 11, 1908. Serial No. 447,931.

To all whom it may concern:

Be it known that I, THOMAS SPACIE, a citizen of the United States, and a resident of Chicago, in the county of Cook and State of Illinois, have invented a new and Improved Roller-Skate, of which the following is a full, clear, and exact description.

This invention is an improvement in roller skates of the character disclosed in Letters Patent granted to me January 7, 1908, Number 876,245, wherein is shown and described an elastic cushion or spring interposed between the foot plate and the rear and front rollers, affording a relative lateral yielding movement between these parts.

The present invention has for its purpose to provide for this movement between the foot plate and rollers with greater ease, and also for the convenient removal and renewal of the cushion, as well as produce a stronger construction. This I accomplish by placing the elastic cushion between the foot plate and roller spindle and pivotally connect these parts in a way such that the opposite ends of the spindle are adapted to swing to and from the foot plate against the action of the cushion.

Reference is to be had to the accompanying drawings forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the views.

Figure 1 is a side elevation, partly in section, of a skate embodying my improvements; Fig. 2 is a plan of the same; Fig. 3 is a perspective view of one of the roller mountings embodying my invention; Fig. 4 is a central section through the same, longitudinally of the skate, when applied to the foot plate; and Fig. 5 is a perspective view of a detachable hanger forming a feature of my improvement.

I have shown a skate foot plate 5 of an extensible nature to fit shoes ranging in size. This is made possible by making the foot plate of two pieces, one of which has a tubular inner end 5^a and the other a reduced inner end 5^b fitting into the tubular member where it is adjustably secured by a set screw 5^c, slipping of the two parts being effectively prevented by providing the parts 5^b with a row of depressions 5^d in which the point of the screw projects. Both the toe and heel of the foot plate have downwardly bent tongues 6 stamped therefrom, and adjacent slots 7, the latter receiving the highest projecting portions of a supporting plate 8. This supporting plate I have shown constructed in all respects the same as the supporting plates disclosed in my patent above referred to in so far as it is made of a double thickness of material with the intermediate portions riveted or otherwise rigidly secured flat together and constructed with a stepped top edge. The front of this plate is extended near its top to pass through a slot in the tongue 6, over which it is riveted or otherwise suitably secured as indicated at 9. The layers of material of which the supporting plate is constructed are spread apart to lie in approximately the same plane, and have their extremities turned downwardly to provide flanges 10. The roller axle or spindle 11 I have shown with the inner bearings secured thereto, between which it is keyed to a casting or other like member 12 having a depression in its upper face and apertured lugs 13 arranged centrally of its front and rear sides. Seated within the depression in the casting 12 is an elastic cushion or spring 14, ordinarily of rubber, the same being pressed against the laterally extended portions of the supporting plates 10 by a pivot pin 16 which passes through the extremities of the tongue 6, the lugs 13, and a detachable hanger 15, the latter, as shown in Fig. 5, being approximately U-shaped, with the extremities of its arms offset to engage on the supporting plate 8, apertures being provided in the said plate for this purpose, as is best illustrated in Fig. 3.

The elastic cushion, it will be observed from Fig. 4, is grooved or otherwise cut out on its under face to clear the pivot pin 16, and is prevented from shifting laterally not only by the recess in the upper face of the casting, but also by the flanges 10 of the supporting plate which embraces it at opposite sides.

The tongue 6, it will be seen from Fig. 2, does not depend from the foot plate vertically, but has a forward inclination and arranged approximately at right-angles to the bottom of the supporting plate, which throws the roller spindle forwardly and enables the same to rearwardly yield under the shock of the rollers, as well as to swing to and from the foot plate at opposite sides of the

pivot pin 16, the latter movement facilitating in the steering of the skater, as is obvious.

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

1. In a skate, a foot plate having a depending tongue, a supporting plate having a connection with the foot plate and said tongue, a hanger carried by the supporting plate, a roller spindle pivotally connected to the tongue and hanger, and resilient means interposed between the supporting plate and roller spindle.

2. In a skate, a foot plate having a downwardly and forwardly inclined tongue, a supporting plate rigidly attached to the foot plate and to the tongue, a roller spindle having a member rigidly attached thereto, a hanger detachably connected to the supporting plate, a pin passing through the tongue, member and hanger, pivotally connecting them together, and an elastic cushion interposed between the member and supporting plate.

3. In a skate, a foot plate having a depending tongue, a supporting plate attached to the foot plate and to the tongue, a U-shaped hanger having the extremities of its arm offset to detachably engage in apertures in the supporting plate, a roller spindle, a casting secured to the roller spindle having a depres sion in its upper face, a pivot pin passing through the tongue, casting and hanger, and an elastic cushion seated in the depression of the casting and embraced at opposite sides by the supporting plate.

4. In a skate, a foot plate having a supporting member, a depending tongue arranged at one side of said member, a hanger detachably connected to the opposite side of said member, a roller spindle carrier, and a pin passing through the tongue, carrier and hanger, pivotally connecting them together.

5. The combination of a foot plate having a depending tongue, a supporting plate attached to the foot plate and to the tongue, provided with laterally-extending portions having depending flanges at their extremities, a hanger detachably engaged with the supporting plate, a roller spindle, a casting secured intermediate the length of the roller spindle having a depression in its upper face, a pivot pin passing through the tongue, casting and hanger, and an elastic cushion seated in the depression of the casting and embraced at opposite sides by the flanges of the supporting plate.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

THOMAS SPACIE.

Witnesses:
R. L. HAINES,
GEORGE H. SCHWARTZ.