(Model.)

J. WILKIE.

ROLLER SKATE.

No. 327,845. Patented Oct. 6, 1885.

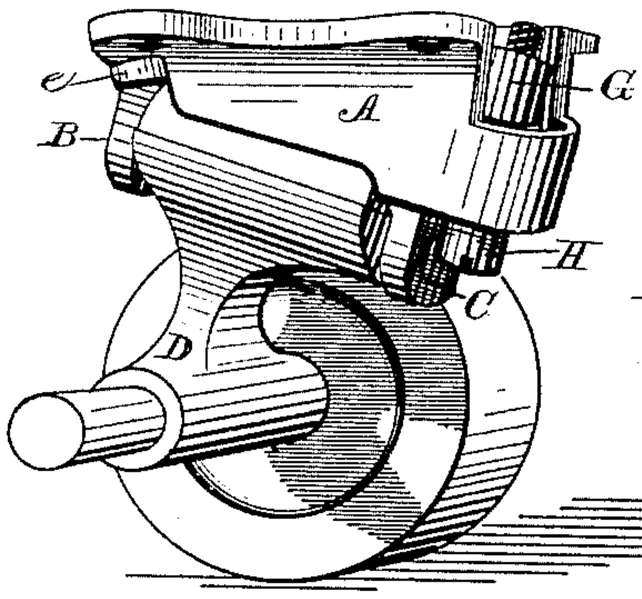

Fig. 1.

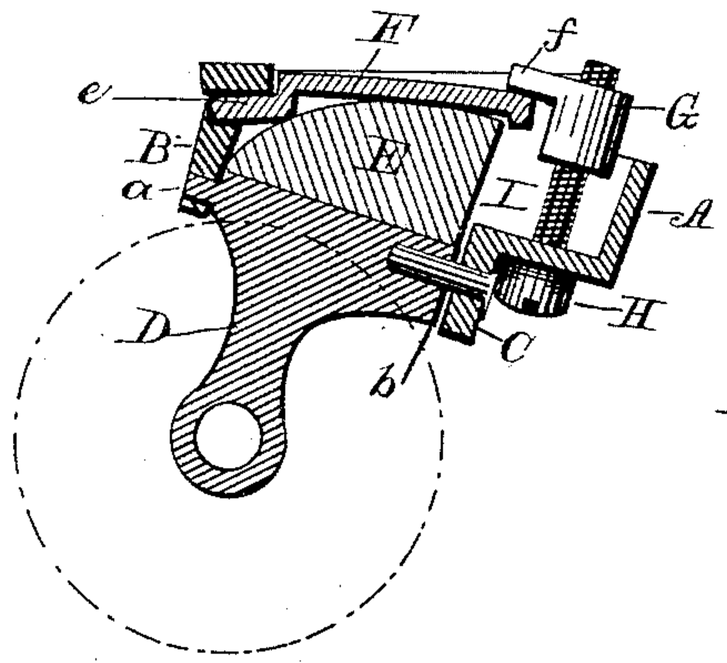

Fig. 2.

WITNESSES

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JAMES WILKIE, OF DETROIT, MICHIGAN.

ROLLER-SKATE.

SPECIFICATION forming part of Letters Patent No. 327,845, dated October 6, 1885.

Application filed January 10, 1885. Serial No. 152,458. (Model.)

To all whom it may concern:

Be it known that I, JAMES WILKIE, a citizen of the United States, residing at Detroit, in the county of Wayne and State of Michigan, have invented certain new and useful Improvements in Roller-Skates, of which the following is a specification, reference being had therein to the accompanying drawings.

My invention relates to improvements in roller-skates.

The object of my invention is to provide a means by which the skater is enabled to readily adjust the tension of the elastic spring.

My invention consists in forming a recess in the upper portion of the bracket, into which the rubber packing or other spring is inserted, the lower side of said spring being adapted to rest on the upper side of the hanger, while the upper portion of the spring is operated upon by a lever-plate, bracket, and screw, by which the tension of the spring is regulated or adjusted, as will more fully appear.

Figure 1 is a side elevation of one truck of my device with one wheel removed. Fig. 2 is a longitudinal sectional view.

A indicates the metal bracket, adapted to be attached to the sole or foot-piece of the skate. The bracket A is cast with a central aperture and with projecting lugs B C at each end, in which the hanger D is pivoted. The hanger D is made flat or slightly concave on its upper surface, the forward portion being provided with a projection or pin, *a*, adapted to fit in an opening in the lug B, and by which means the forward end of the hanger is pivoted to the bracket. The rear end of the hanger is provided with an aperture adapted to receive a pin or screw, *b*, which passes through the lug C and into the aperture of the hanger, and by which means the rear end of the hanger is pivoted to the bracket in such a manner that it can be readily attached or detached.

E is an elastic spring, of rubber or other suitable material, adapted to fit within the cavity of the bracket A, its lower face resting on the upper edge or end of the hanger D. The rubber spring may be of any suitable form, but the form shown is the one preferred, as it is the best adapted to the tension devices, which I will now proceed to describe.

F is a metal plate, which is bifurcated or provided with two projecting lugs, *e*, (only one shown,) at its forward end adapted to pass out under the top plate of the bracket and embrace the lug B. The rear end of the metal plate F passes beyond the rear end of the elastic spring, and is operated upon by the screw-nut G, said screw-nut being provided with a projection or elongated side, *f*, which impinges on the rear end of the plate F.

H is a screw-bolt, which passes through the bottom of the bracket and into the screw-nut G, that portion of the bracket being extended to the rear of the hanger to form a cavity, I, for the screw and nut.

By securing the front end or the prongs *e* of the plate F under or into a notch or recess in the bracket, as shown and described, and by drawing the other end down by means of the nut and bolt, the plate acts on the rubber spring with a powerful leverage-pressure, and the tension of the spring is readily adjusted.

It will be noticed that the head of the screw-bolt lies close to and in almost immediate contact with the head or outer end of the bolt *b*, so that when the parts are in place the bolt *b* cannot work out of its proper position.

From the foregoing description the operation of my device will be obvious to those skilled in this art, and the tension of the spring is readily increased or diminished by simply turning the screw H.

My device is composed of but few parts, is simple and cheap in construction, and is not liable to get out of order, and, besides, the hanger is so adjusted with relation to the spring that the device is always under the control of the skater for straight or curvilinear motions.

The front end of the plate F may be made to fit in a ledge in the bracket instead of having the projecting lugs embrace the lug B, and other changes and modifications may be made without departing from the spirit of my invention.

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

1. In a roller-skate, the hanger D, having a pivot-pin formed on one end, adapted to fit in a seat in the bracket A, and the bolt *b*, adapted

to pass through an opening in the bracket and engage with the other end of the hanger, in combination with the screw-head H, whereby the bolt *b* is held in its seat, as set forth.

2. The combination, with the bracket A, of the plate F, having a lug, *e*, at one side, the nut G, and adjusting-screw H, and the hanger D, pivoted in the frame at *a*, and at *b* to a removable bolt, substantially as specified.

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

JAMES WILKIE.

Witnesses:
THOS. B. RAYL,
W. E. MOSS.