

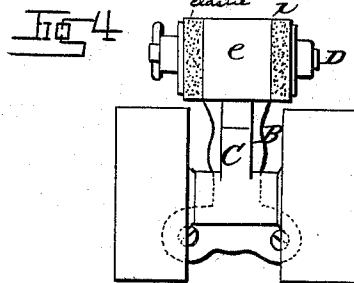
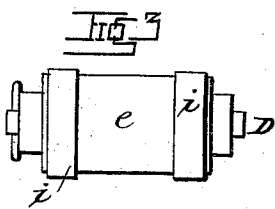
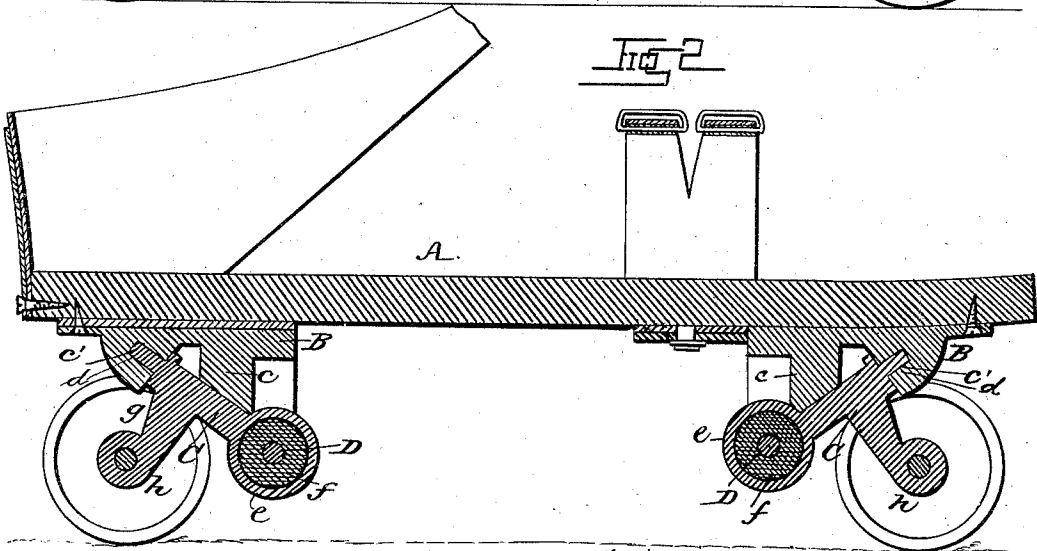
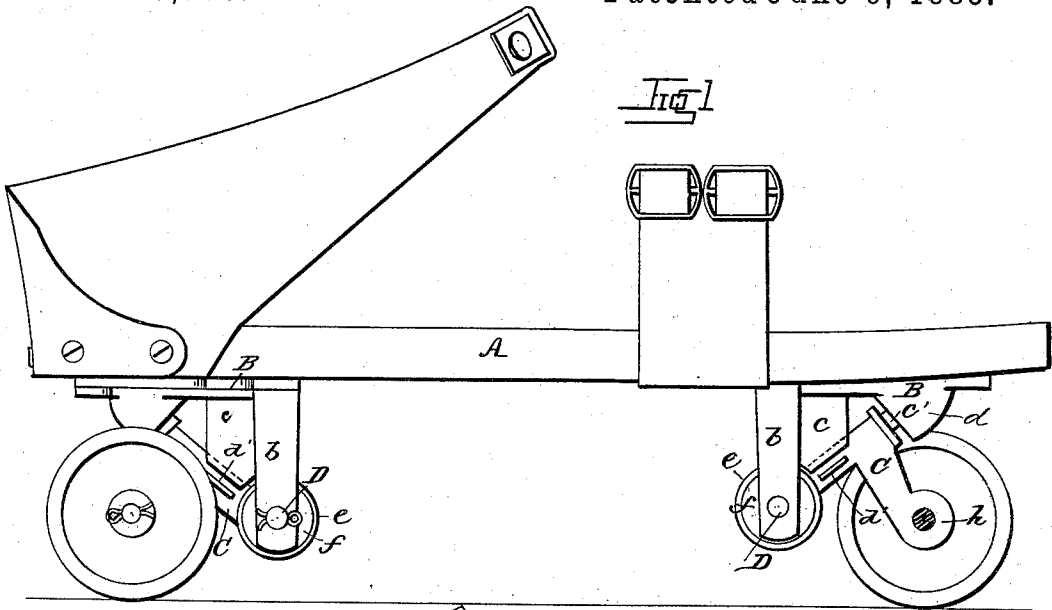
(No Model.)

G. H. THOMPSON.

ROLLER SKATE.

No. 319,530.

Patented June 9, 1885.



WITNESSES:

Fred. S. Dietrich
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GEORGE H. THOMPSON, OF FROSTBURG, MARYLAND, ASSIGNOR TO HENRY D. HUFF AND CALEB BRINTON, OF CHICAGO, ILLINOIS.

ROLLER-SKATE.

SPECIFICATION forming part of Letters Patent No. 319,530, dated June 9, 1885.

Application filed June 4, 1883. (No model.)

To all whom it may concern:

Be it known that I, GEORGE H. THOMPSON, a citizen of the United States, residing at Frostburg, in the county of Allegany and State of Maryland, have invented a new and useful Improvement in Roller-Skates, of which the following is a specification.

This class of skates has heretofore been difficult to construct in such a manner as to make them capable of performing perfectly the operations required of them in the complex evolutions of skating without depriving them of the essential compactness and durability they should possess.

I overcome the defects usually found in the former modes of construction by means of the construction and combination of movable and fixed parts, as hereinafter described and illustrated by the accompanying drawings, in which—

Figure 1 is a side view of a skate provided with my improvements; Fig. 2, a longitudinal section, and Figs. 3 and 4 detached views.

To the foot-stock A, I attach two like sets of metallic brackets and hangers, one set to the heel and one to the toe of the stock. Each set consists of a stationary and movable part. The stationary part is composed of the plate B, having the pendent arms *b b*, the post or bearing *c*, and the socket *d*, and the movable part is composed of the inclined axis C, having the reduced end *c'*, stops *d'*, a cylindrical head, *e*, containing the elastic tube *f*, and the inclined arm *g*, which, having the head *h*, serves as a bearing for the axle with rollers attached. The movable part is connected at one end with the stationary part by means of the socket *d* of plate B and the reduced end *c'* of the axis C, and at the other end by a pin, D, passing through the arms *b b* and through the elastic tube *f* in the cylindrical head *e* and the elastic washers *i i*, one of which is placed at each side of said head, or between it and the adjacent arm *b*. These washers form a yielding bearing for the lower inner ends of the arms *b*, and in connection with the elastic tube form an elastic bearing for the movable parts in their several positions.

The stops *d'* limit the oscillations of the axis

C to the action required for giving the rollers their necessary movements.

The post *c*, with the groove in its lower end (shown by dotted lines, Fig. 1) to fit the axis C, relieves the elastic head of the weight that would come upon it if said post was absent, and said post affords a solid guide for the movable parts, the office of the elastic tube being more particularly to serve for a spring to the axis C in its oscillations—that is to say, the post prevents too great compression of the elastic tube between the pivot D and head *e*, and the lower end, being concaved or grooved, allows the axis C to oscillate freely.

The plate B is attached to the foot-stock with screws, the end with the socket *d* pointing toward the toe when attached in front and pointing toward the heel when attached to the rear of the stock.

What I claim is—

1. The combination, with the plate B, formed with a socket, *d*, at one end, pendent arms *b* at its opposite end, and the intermediate grooved bearing-block, *e*, of the movable part C, formed at one end with a pin, *c'*, fitting within socket *d*, a head, *e*, at its opposite end, and the pendent wheel carrying arm *g*, the tubular elastic cushion *f*, within the head *e*, and the pin D, passing through the arms *b* and the elastic cushion, substantially as set forth.

2. The combination, with the plate B, formed with a socket, *d*, and pendent arms *b* at its opposite ends, and the intermediate grooved bearing-block, *e*, of the movable part C, formed with a pin, *c'*, fitting within socket *d*, a cylindrical head, *e*, at its opposite end, and the pendent wheel-carrying arm *g*, having a head, *h*, the tubular elastic cushion *f*, within the cylindrical head *e*, the pin D, passing through the arms *b*, and elastic cushion *f* and the elastic washers *i* on said pin D at opposite sides of head *e*, substantially as set forth.

GEO. H. THOMPSON.

Witnesses:

H. C. HUNTEMANN,
W. R. B. ATKINSON.