(No Model.)

H. THOMAS.

ROLLER SKATE.

No. 332,460. Patented Dec. 15, 1885.

Fig. 1.

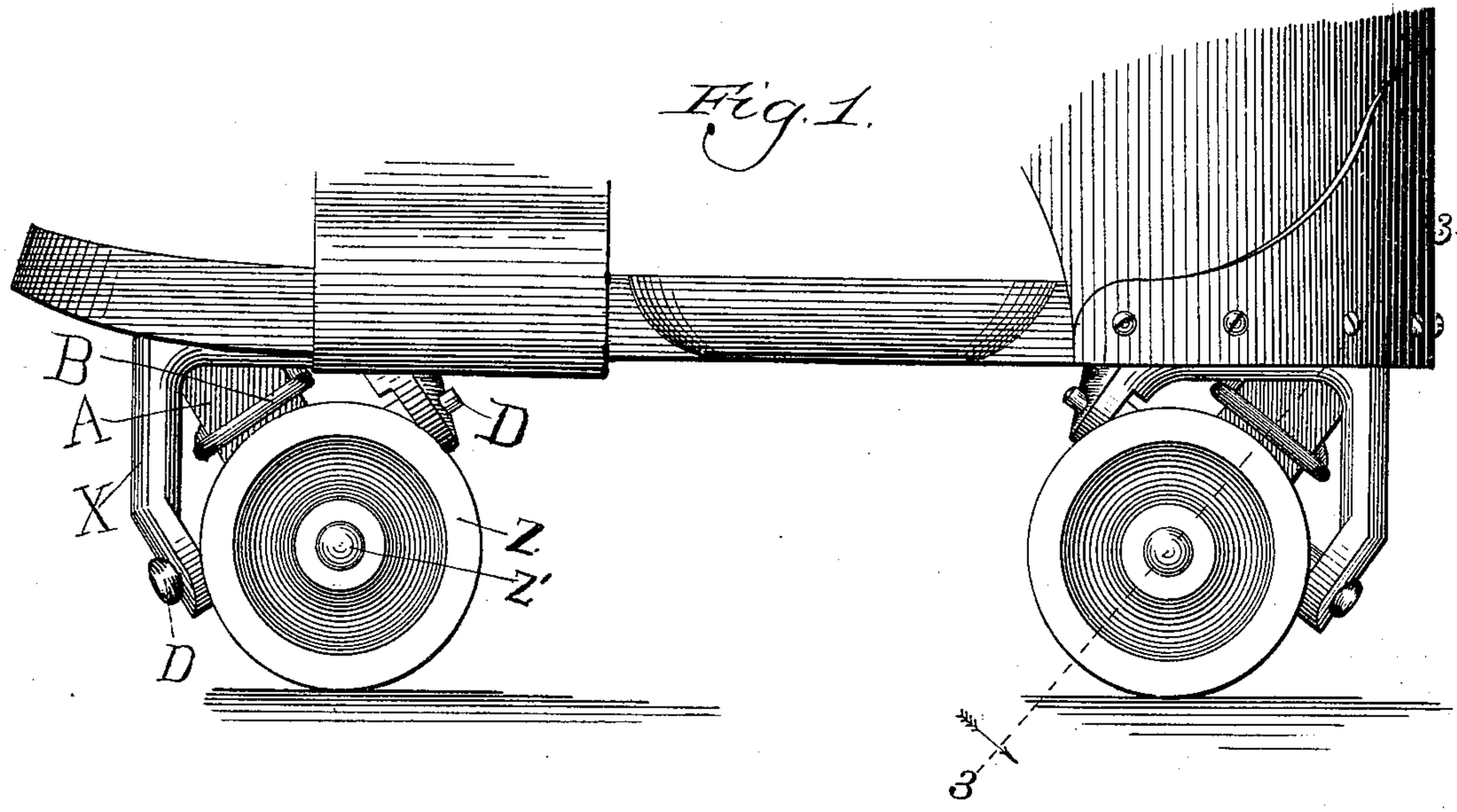


Fig. 4.

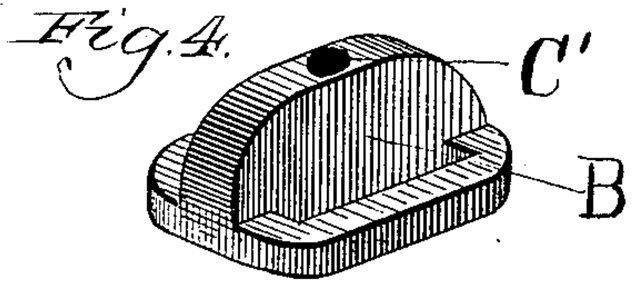


Fig. 2.

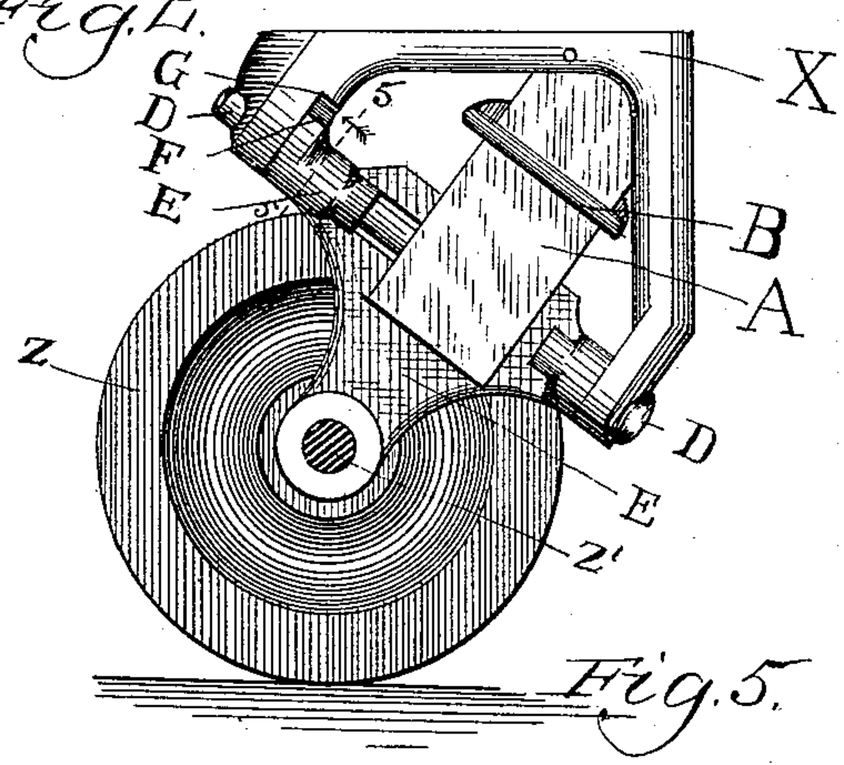


Fig. 3.

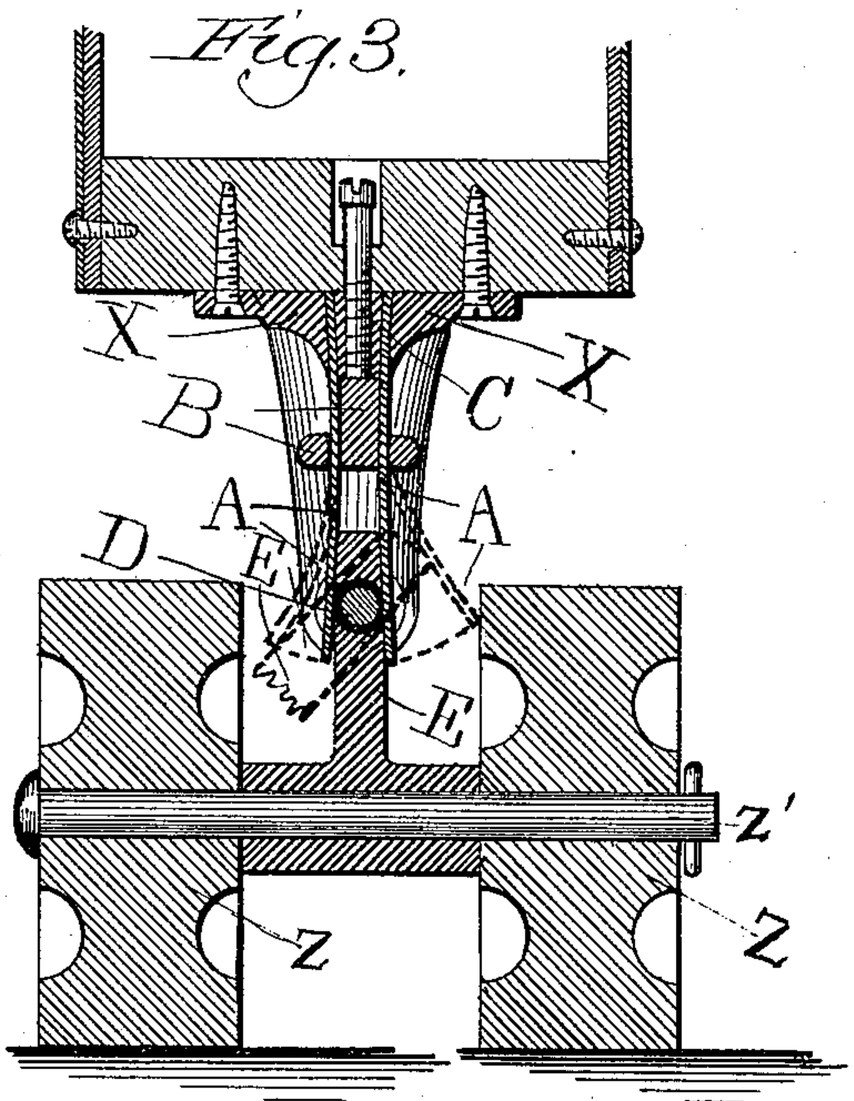
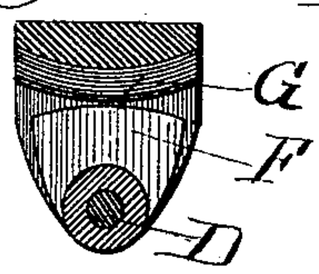


Fig. 5.



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UNITED STATES PATENT OFFICE.

HORATIO THOMAS, OF CHICAGO, ILLINOIS.

ROLLER-SKATE.

SPECIFICATION forming part of Letters Patent No. 332,460, dated December 15, 1885.

Application filed March 16, 1885. Serial No. 158,950. (No model.)

To all whom it may concern:

Be it known that I, HORATIO THOMAS, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Roller-Skates, of which the following is a specification.

My invention relates to "roller-skates," so called; and the object of my invention is to obtain an elastic spring, and which may be easily adjusted when desired, that shall be firm and uniform in its action, not easily broken or gotten out of repair, controlling and regulating the relative positions of the two parts or portions of the frame-work attached to the foot-board of the skate and carrying the rollers.

I have illustrated my invention by the drawings accompanying this specification and forming a part hereof.

Figure 1 is an elevation of a skate embodying in its construction my invention. Fig. 2 is an elevation illustrating my invention, one of the rollers being removed from its axle. Fig. 3 is a cross-section on line 3 3 of Fig. 1, looking in the direction of the arrow. Fig. 4 is a perspective of the adjusting sleeve or collar used by me in embodying my invention. Fig. 5 is a cross-section on line 5 5 of Fig. 3, showing the stop used to prevent breakage or strain on the spring or springs used by me.

Like letters refer to like parts throughout the several views.

A is the spring.

B is the sliding collar or sleeve by which the spring A is made adjustable.

C is a screw, by the turning of which sleeve B is raised or lowered on springs A A.

C′ is the hole or socket in sleeve B into which screw C sets or is placed.

D is the spindle upon which the portion of the frame carrying the rollers Z Z turns or partially rotates. The spindle D unites or holds together the two portions X and E of the frame-work attached to the foot-board and carrying the rollers.

E is a portion of the roller frame-work.

F is a shoulder on portion E of the frame-work.

G is a shoulder on portion X of the frame-work.

F and G, as illustrated in Fig. 5, form a stop, permitting a certain amount of rotation to part or portion E of the frame-work around or on spindle D.

Z′ is the spindle, on which are placed rollers Z Z.

X is the upper portion of the frame-work of the roller.

The operation and construction of my improved roller-frame are as follows: The springs A A, having sleeve B placed thereon, are placed in portion X of the frame-work, so that the inner surfaces of said springs press upon or against the outer surface of portion E of the said frame-work. The two portions E and X are thus held by said springs in the position illustrated in Figs. 2 and 3. By deflecting portion X of the frame-work to the left, (see Fig. 3,) or, which is the same in effect, deflecting the lower portion, E, of said frame-work to the left, springs A A are forced apart, in the manner illustrated by the dotted lines in said Fig. 3, by the web portion of part E. The said springs A will then constantly tend to force parts X and E of the frame-work back to the position illustrated in Figs. 2 and 3. If portion X or E of the frame-work be deflected to the right, it will be readily seen that the action of the springs A A is identical with the action just described of said springs.

The length of springs A A affected by said above-described deflections is governed by sleeve B, as is consequently the strength of said springs.

The position of sleeve B is regulated by screw C.

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

In a roller-skate, a frame-work composed of portions X and E, united by a spindle, in combination with springs A A and adjustable sleeve B, substantially as described, and for the purpose set forth.

HORATIO THOMAS.

In presence of—
C. C. WHITMORE,
C. F. PETERS.