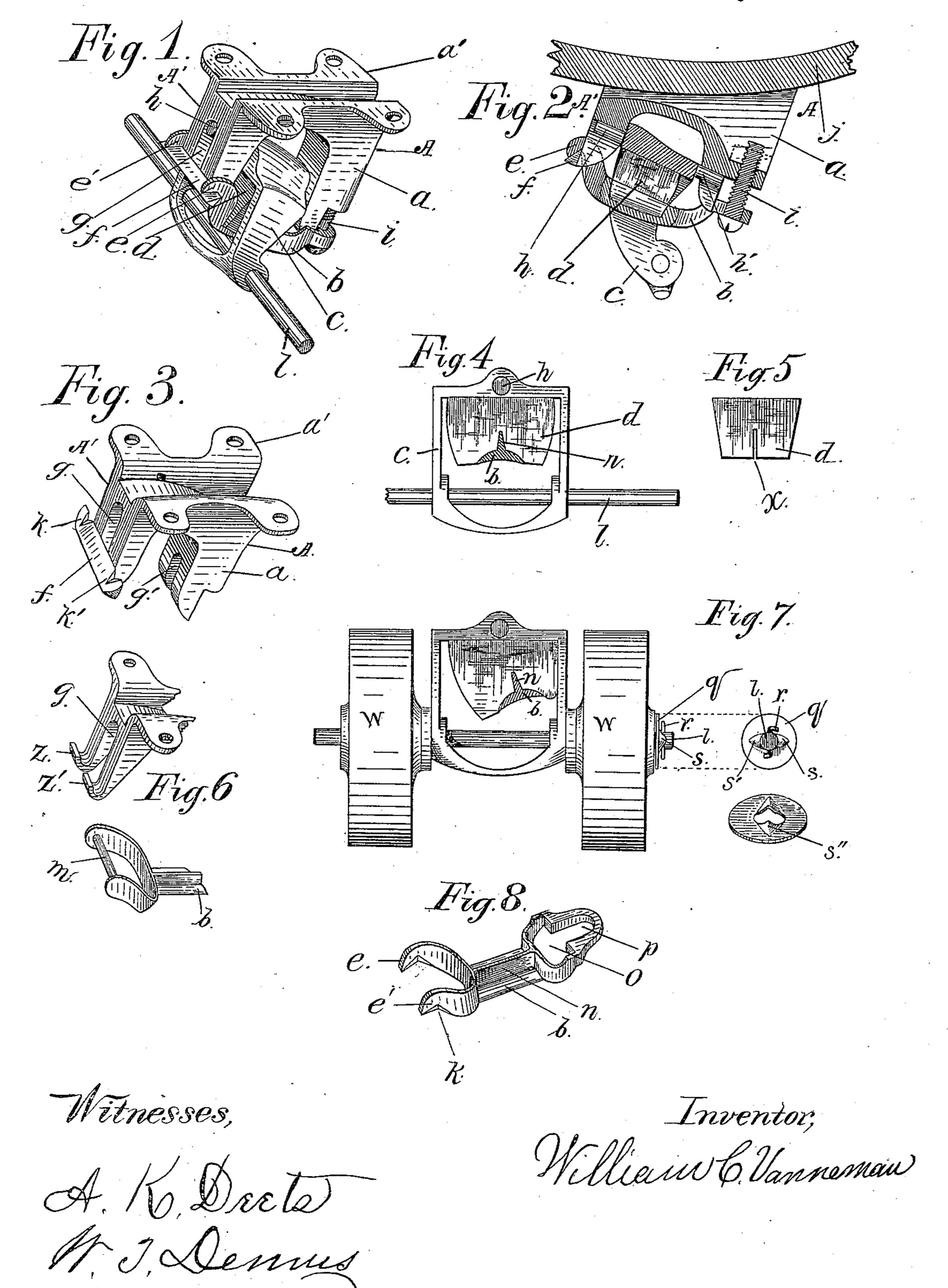
W. C. VANNEMAN.

ROLLER SKATE.

No. 298,323.

Patented May 6, 1884.



UNITED STATES PATENT OFFICE.

WILLIAM C. VANNEMAN, OF RICHMOND, INDIANA.

ROLLER-SKATE.

SPECIFICATION forming part of Letters Patent No. 298,323, dated May 6, 1884.

Application filed January 4, 1884. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM C. VANNE-MAN, a citizen of the United States, residing at Richmond, in the county of Wayne and 5 State of Indiana, 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.

10 My invention relates to that class of rollerskates in common use for parlor and rink skat-

ing.

My invention consists in the novel construction of the trucks used and in the fewer num-

15 ber of pieces required.

In the drawings which accompany this specification, forming part of the same, Figure 1 is a perspective view of the hanger and truck frame and axle and bed-plate. Fig. 2 is a lon-20 gitudinal vertical section of the hanger and truck frames, showing the spring in position; also the bed-plate. Fig. 3 is a perspective view of the hanger-frame. Fig. 4 is a vertical cross-section of the truck-frame. Fig. 5 is a 25 front elevation of the rubber spring. Fig. 6 is a perspective of the front end of the hangerframe and bed-plate, showing another form of connecting the same. Fig. 7 is an elevation of the truck, truck-frame, and spring when 30 the spring is thrown sidewise by the action of the hanger-frame; also showing the form of the washer used to retain the wheel upon the axle and the manner of their use. Fig. 8 is a perspective view of the bed-plate.

In Fig. 1, a represents the hanger-frame, in which a' is the top surface, to which is attached the foot-piece, and which is provided with screw-holes admitting screws to secure the

same.

Depending from the surface a' are lugs or projections, forming the ends of the hangerframe A A', as shown in Fig. 3. The projection A is furnished with a vertical slot or opening, g', which receives the pivot h' of the 45 truck-frame c. (Seen also in Fig. 2.) The projection A' has a similar slot or opening, g, which is closed at its lower end by a horizontal triangular cross-bar, f, rigidly attached to the lower ends of the projection A'. The edges 50 of the cross-bar f are furnished with V-shaped notches outside of its point of contact with the

projection A', which receive and support the ends e e of the bed-plate b. The ends e e of the bed-plate b are recessed to fit the notches k k' of the cross-bar f.

i, Fig. 1, is a temper-screw passing through an opening in the end of the bed-plate b at p, and engaging in a screw-thread in the projection A of the hanger a, as seen in Fig. 2.

d, Fig. 1, is a rectangular rubber spring rest- 60 ing upon the bed-plate b, and pressing against the top bar of the truck-frame c, provided with a vertical slot, x, Fig. 5. The lower portions of the truck-frame c are provided with holes to receive the axle l. The truck- 65 frame c is provided with pivots h h', which have their bearings in the slots g g' in the hanger-frame a, and upon which the hangerframe a and the foot-piece to which it is attached are permitted an oscillating motion by 70 the action of the operator. The bed-plate b, Fig. 8, is constructed of a horizontal bar, b, having an upward-projecting rib, n, (shown in Fig. 4,) a lateral opening, o, and loop p at one end of the bar, and semicircular jaws ee, 75 provided with notches k^2 , at the opposite end, each end being elevated above the bar b, the jaws e e having their bearing in the horizontal cross-bar f, while the opposite end is supported by the head of the temper-screw i, by the 80 action of which screw it is permitted a vertical motion, increasing or diminishing the pressure upon the spring d, which rests upon it, and which is held in place by the rib n being inserted in the slot x, Figs. 4 and 5.

In Fig. 7, l represents the axle, w w the wheels, and q the washer; r, the linch-pin. sis a raised projection on the face of the washer q, the projection being highest in the central portion, where the axle protrudes, at which 90 place it is cut away to allow a vertical linchpin to be inserted.

In Fig. 6 the front end, A', of the hanging frame is provided with curved arms zz', and the end of the bed-plate has a rod, m, secured 95 horizontally between the jaws ee, which, when placed in the curved arms z z', produces another form of support for that end of the bedplate in which it is conveniently hinged. When the truck-frame is placed in position, with the 100 jaws e e resting upon the cross-bar f, the screw i is inserted in the loop p, and screwed into

its thread in the projection A, the head of the screw i resting against the under surface of the loop p, and thus raising that end of the bed-plate. The spring d, being attached, as 5 shown, to the upper surface of the bed-plate, is brought in contact with the under surface of the cross-bar which forms the top of the truck-frame c, and as the screw i is turned home the pressure on the spring is increased to as may be required.

It will be seen that the hanger-frame a, the truck-frame c, and the bed-plate can be readily detached and disconnected by removing the temper-screw i, and that when these parts are 15 in working position more or less density can be imparted to the spring d by means of the

temper-screw i.

I am aware that it is not new to combine a pressure-plate with the roller-support, said 20 pressure-plate being pivoted at one end, and adjustable at the other end by an adjustingscrew, and which I do not claim.

Having thus fully described my said invention, what I claim as new, and desire to se-

25 cure by Letters Patent, is-

1. In a roller-skate, the hanger-frame provided with pendent lugs at opposite ends, with a space between the lugs to receive a truck-frame, said lugs being slotted vertically 30 to receive the axles of the roller-supporting truck, substantially as described.

2. In a roller skate, the bed-plate formed at one end with the forked arm, at the opposite end with the openings o and p, and between 35 the two ends with the bar b, provided with the longitudinal rib n, substantially as de-

scribed. 3. The combination of the hanger-frame provided with pendent lugs slotted vertically, 40 and having at the end a support for a bedplate, a truck-frame adapted to have an axle connected therewith, and provided with piv-

ots having their bearings in said vertical slots, and a bed-plate connected with said hangerframe below the pivots of said truck-frame, 45 substantially as described.

4. The combination of the hanger-frame, the truck-frame having a laterally-yielding connection therewith, a bed-plate below said truck-frame, and a spring-cushion between 50 said bed-plate and truck-frame to restore said truck-frame to its normal position when relieved from strain, substantially as described.

5. The combination of the hanger-frame, the truck-frame having a laterally-yielding 55 connection therewith, a bed-plate below said truck-frame, a spring-cushion between said bed-plate and truck-frame, and means for adjusting said bed-plate to tighten or loosen the connection between the parts, substantially as 60 described.

6. The combination of the hanger-frame provided with pendent lugs slotted vertically, and having at the end a support for a truckframe, a truck-frame provided with journals 65 having their bearings in said slotted lugs, a bed-plate connected with the hanger-frame below the bearings of the truck-frame, a springcushion interposed between said truck-frame and bed-plate, and a screw for tightening the 70 connection between said parts, substantially as described.

7. In a roller-skate, the combination, with the wheel and axle, of the washer q, provided with the projection on its face, and a linchpin 75 to the axle to one side of the projection, substantially as described.

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

WILLIAM C. VANNEMAN.

Witnesses:

A. K. Deets, W. T. DENNIS.