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E. JERVOISE

1,703,936

ROLLER SKATE

Filed Feb. 16, 1928

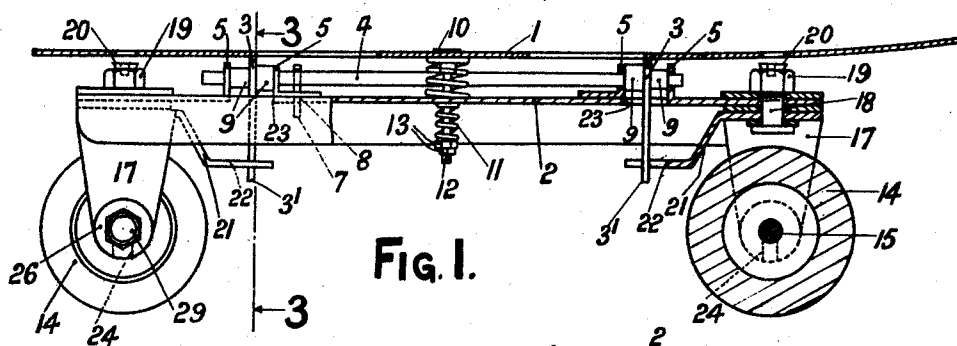


Fig. 1.

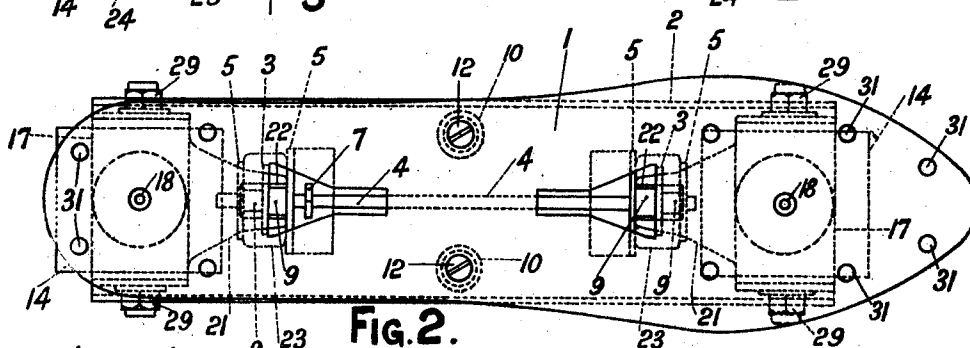


Fig. 2.

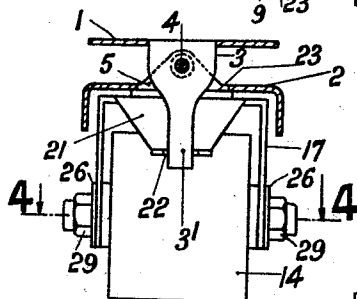


Fig. 3.

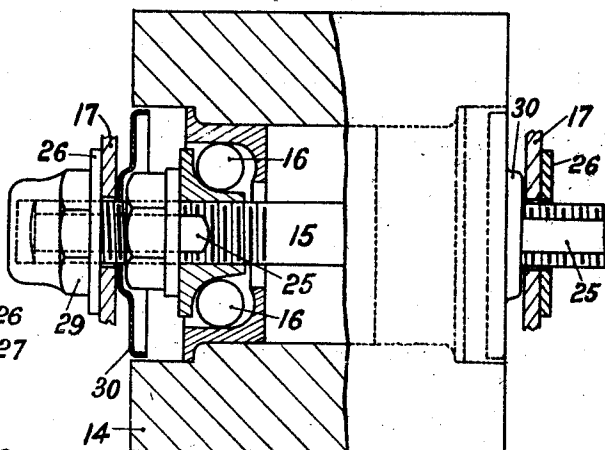


Fig. 4.

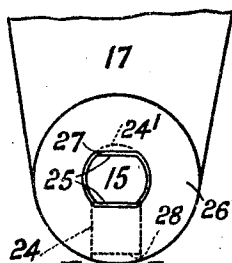


Fig. 5.

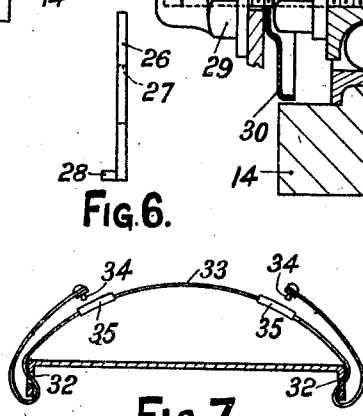


Fig. 6.

Fig. 7.

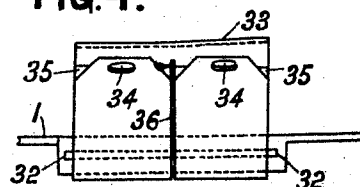


Fig. 8.

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UNITED STATES PATENT OFFICE.

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ROLLER SKATE.

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This invention relates to roller skates and more particularly to roller skates of the two roller type. The invention has for its object to provide an improved construction of such skates.

The improved roller skate in accordance with my invention is illustrated in the accompanying drawing in which Fig. 1 is a part elevation part vertical section and Fig. 2 is a plan view thereof. Fig. 3 is a section on the line 3—3 of Fig. 1, Fig. 4 a part plan part section on the line 4—4 of Fig. 3 drawn to a larger and showing the roller assembly, Figs. 5 and 6 are fragmentary detail views and Figs. 7 and 8 are fragmentary views showing an alternative means of toe fastening.

Referring to the drawing, 1 denotes an upper platform adapted to rock laterally on a lower platform 2, the platform 1 for this purpose being formed with spaced depending arms 3 adapted to rock about a pivot rod 4 penetrating said arms and sustained by brackets 5 formed on or secured to the lower platform 2.

The pivot rod 4 is anchored to the platform 2 as by a split pin 7 or the like which is passed through an aperture 8 in said platform and penetrates the rod 4.

Shouldered bushes 9 are pressed into the depending arms 3 and serve as bearings for the pivot rod 4 and take the thrust against the brackets 5.

Rocking movement of the upper platform is controlled by compression springs 10 interposed between the platforms 1 and 2, one at each side thereof, and by compression springs 11 coaxial with the springs 10 and located beneath the lower platform, each pair of superposed springs 10, 11 being penetrated by a common bolt 12 anchored to the platform 1 and equipped at the lower end with adjusting nuts 13 cooperative with the relative lower spring 11.

It will be understood that both pairs of opposed springs 10, 11 coact to limit the rocking movement of the upper platform.

14 denotes the rollers which are mounted on ball bearings 16 on axles 15 carried by inverted horn pieces 17 each of which is mounted to swivel about a vertical bolt 18 penetrating the lower platform and the axis of which extends diametrically through the relative roller.

The nuts 19 of the bolts 18 are locked by providing recesses in the bolt ends and ex-

panding the bolts thereat, as shown at 20 (Fig. 1).

Each of the horn pieces 17 is formed with a longitudinally disposed lever arm 21, such lever arms extending towards one another and presenting slots 22 each of which is engaged by the lower end 3' of the relative depending arm 3, the arms 3 for this purpose projecting through openings 23 in the lower platform 2.

The side arms of the horn pieces 17 are formed with keyhole slots 24 (Fig. 5) for engagement with the roller axles 15, said axles having diametrically opposed flats 25 which permit insertion of the axles 15 through the narrow boundaries of the slots into the circular portions 24' thereof. Rotation of the axles 15 through angles of 90° locates such axles 15 in the recesses 24' and to lock said axles against further rotation the projecting ends thereof are each embraced by a washer 26 having flats 27 engaging the flats 25 on the axle and also having a protuberance 28 adapted to enter the lower boundaries of the keyhole slot 24.

Box nuts 29 threaded on the projecting ends of the axles abut on the washers 26.

The ball bearings 16 are equipped with dust caps 30.

The skates may be attached to boots or the like by screws penetrating apertures 31 on the upper platform 1 or, and as shown in Figs. 7 and 8, the toe end of the platform 1 may be formed with slots 32 through which is passed a strap 33 adapted to embrace the toe cap of the boot.

The strap 33 is preferably fitted with press buttons 34 or the like engageable with socket members 35 mounted on the strap and adjustable thereon to permit lengthening or shortening thereof.

The strap may be split at each side into two strips as indicated at 36 (Fig. 8).

When the skate is in use and is travelling in a straight line, the upper platform 1 is practically level and the arms 3 extend vertically downwards and maintain the lever arms 21 in about the longitudinal centre line of the skate, with the axes of the two rollers parallel to one another, but when the skater inclines his foot and the upper platform 1 laterally, the arms 3 then make an angular movement towards one or other side of the skate and turn the lever arms 2 and the horn pieces 17 with the axles 15 and rollers 14, so that the

axes of the rollers are then inclined to one another to the proper amount, according to the radius of the curved track along which the skate is intended to travel.

5 I claim:

In a roller skate of the type described, having a roller supporting platform provided with a roller unit adjacent each end thereof and a foot supporting platform spaced from
10 said roller platform and adapted to rock thereon, means for pivotally mounting said foot platform on said roller platform, said

means comprising spaced brackets longitudinally aligned on said roller platform, depending arms on said foot platform extending
15 through said roller platform adjacent said brackets, space bushings separating said arms from said brackets, and a pivot rod extending through said brackets said arms and said bushings longitudinally between said plat-
20 forms.

In testimony whereof I have signed my name to this specification.

EDWYN JERVOISE.