

Sept. 2, 1941.

T. R. RONISH

2,254,450

SKATE

Filed Jan. 25, 1940

2 Sheets-Sheet 1

Fig. 1.

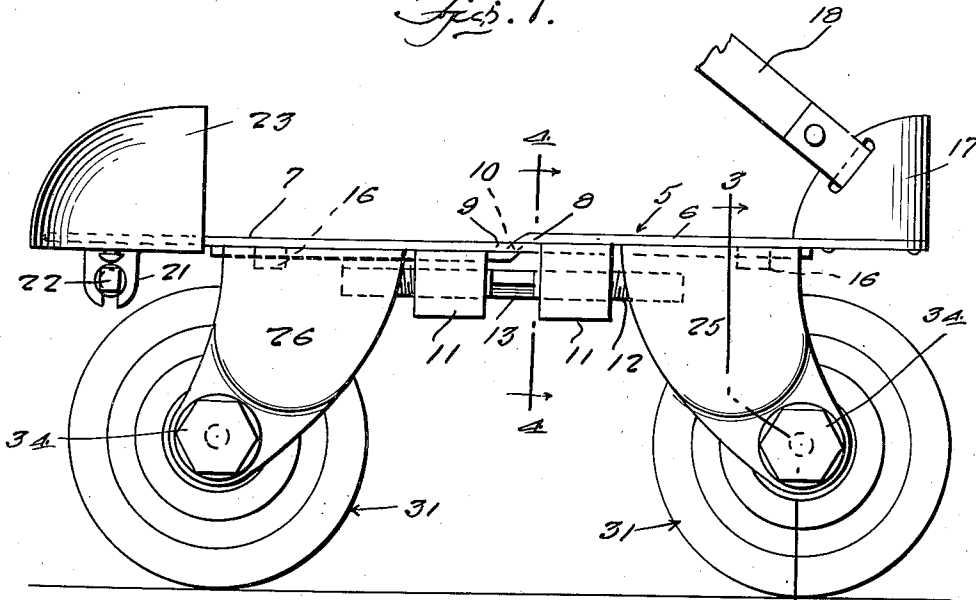
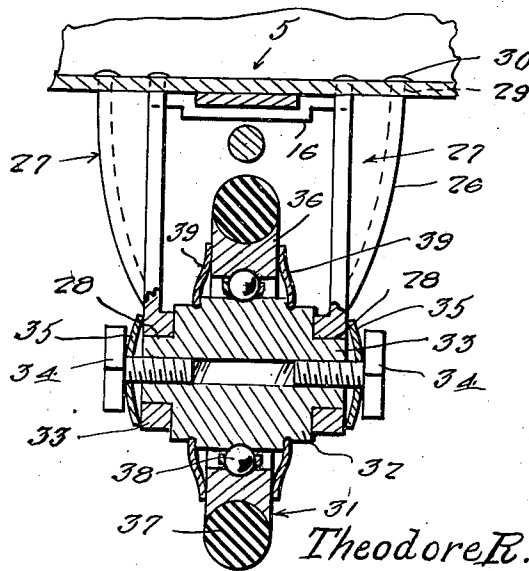


Fig. 3.



Inventor

Theodore R. Ronish

By *Clarence A. O'Brien*
and *Hyman Berman*
Attorneys

Sept. 2, 1941.

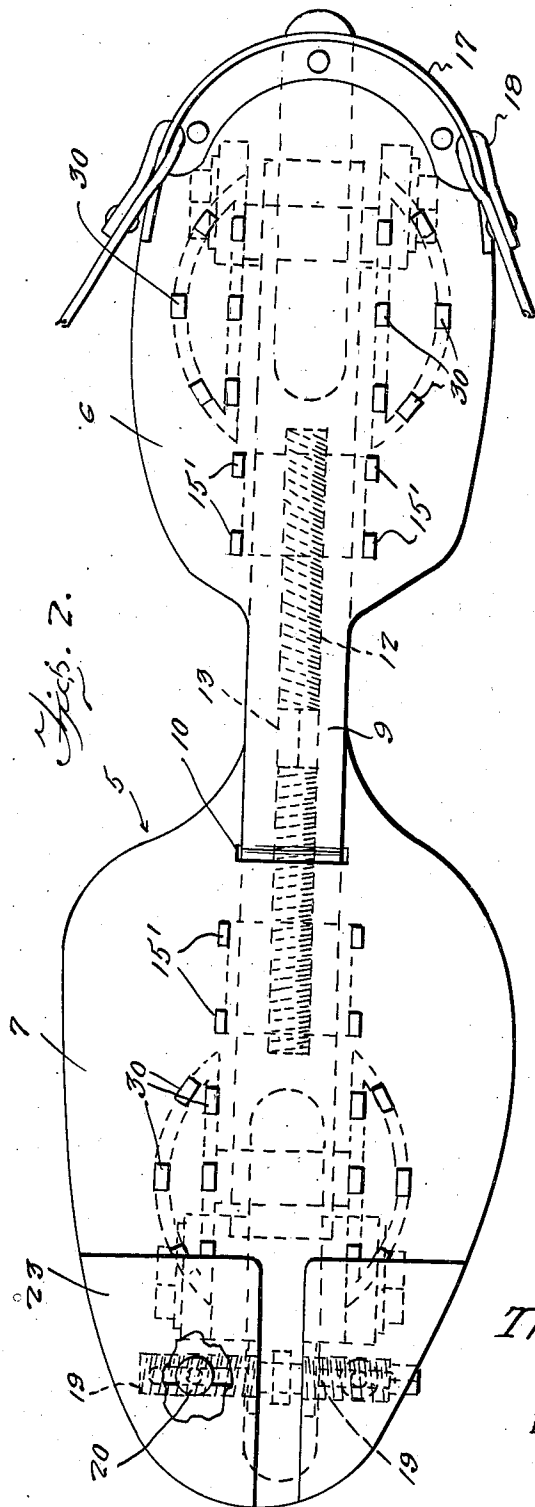
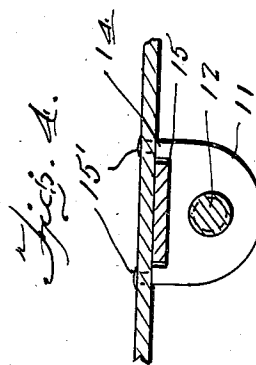
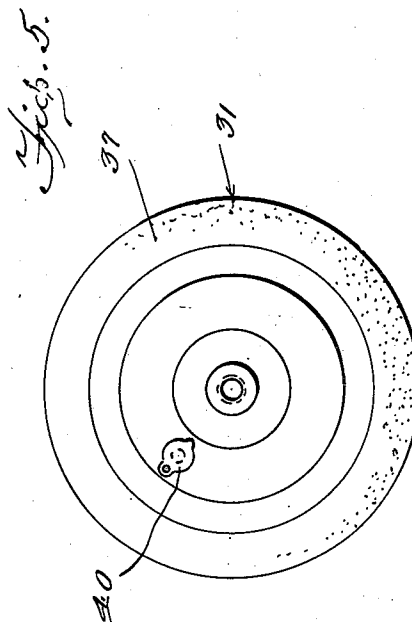
T. R. RONISH

2,254,450

SKATE

Filed Jan. 25, 1940

2 Sheets-Sheet 2



Inventor

Theodore R. Ronish

By

Clarence A. O'Brien
and Hyman Berman
Attorneys

UNITED STATES PATENT OFFICE

2,254,450

SKATE

Theodore R. Ronish, Cheyenne, Wyo.

Application January 25, 1940, Serial No. 315,587

1 Claim. (Cl. 280—11.27)

This invention relates to skates of the wheel or roller type, and has for the primary object the provision of a device of this character wherein a pair of wheels will be employed on each skate and arranged in tandem formation, that is a rear wheel and a front wheel, and each of a construction to reduce friction to a minimum, so that exceptional high speeds may be obtained by the skater as well as permitting the skater to have a greater amount of grace in skating.

Another object of this invention is an improved construction of wheel fork that may be employed either for the front or rear wheel and readily and efficiently secured to the skate platform and which will provide for a balanced distribution of the skater's weight on the wheels.

A further object of this invention is the provision of a platform construction easily adjustable as to length to permit the skate to be adjusted for different size shoes.

With these and other objects in view, the invention consists in certain novel features of construction, combination and arrangement of parts to be hereinafter more fully described and claimed.

For a complete understanding of my invention, reference is to be had to the following description and accompanying drawings, in which

Figure 1 is a side elevation illustrating a skate constructed in accordance with my invention.

Figure 2 is a top plan view illustrating the same.

Figure 3 is a sectional view taken on the line 3—3 of Figure 1.

Figure 4 is a transverse sectional view taken on the line 4—4 of Figure 1.

Figure 5 is a side elevation illustrating one of the wheels.

Referring in detail to the drawings, the numeral 5 indicates a platform including a heel portion 6 and a sole portion 7. The general outline of these portions is in accordance with a heel and sole of a shoe and the heel portion 6 is provided with an extension 8. Also the sole portion 7 has an extension 9 and the sole portion adjacent to where the extension 9 forms thereon is provided with a slot 10 to permit the extension 8 of the heel portion to extend therethrough. The extensions 8 and 9 have overlapping relation and the extension 8 is offset to extend through the slot 10 so as to bring the free end portions of the extensions to underlie the heel and sole portions of the platform, providing a construction which will permit the sections of the platform to be adjusted toward and from each other so that the

platform may be adapted to different size shoes.

Feed nuts 11 are mounted on the under face of the sections of the platform and one of said feed nuts has left hand screw threads while the other feed nut has right hand screw threads to match the right and left hand screw threads of an adjusting rod 12 provided between its ends or screw threaded portions with wrench-engaging faces 13. This construction permits the sections of the platform to be readily moved toward and from each other and the feed nuts have cut-away portions to form attaching shanks 14 and slot-like seats 15 therebetween through which the extensions 8 and 9 slide for maintaining said extensions in close sliding relation with the sections of the platform. The attaching shanks 14 extend through slots provided in the sections of the platform and are headed or riveted, as shown at 15'. The sections of the platform upon their under faces are further provided with brackets or guides 16 in which the extensions 8 and 9 are slidable mounted.

The heel section 6 of the platform has riveted or otherwise secured thereon an arcuately curved heel plate 17 to which is connected an ankle strap 18. The sole portion 7 adjacent its toe end is provided with transversely arranged slots 19 through which headed shanks 20 of feed nuts 21 extend. The feed nuts are provided with right and left hand screw threads to match the right and left hand screw threads of an adjusting rod 22. The headed shanks 20 are employed for slidably securing a toe clamp 23 on the platform and which includes companion sections adaptable on the platform toward and from each other to permit the toe clamp to be adjusted to accommodate the toe portions of shoes of different sizes.

It is to be understood that the toe clamp 23 is so shaped as to receive therein the toe of a shoe providing the front mounting of the platform on a shoe.

Secured to the heel and sole sections of the platform are rear and front wheel forms 25 and 26 both of identical construction and either is mountable on the sections of the platform consequently eliminating the necessity of manufacturing forks of different construction from each other for the heel and sole sections of the platform.

Each fork consists of plate-like portions 27 and each tapering toward one end with an arcuate curvature and provided in its smallest end portion with an axle opening 28. The major portions of the plate-like portions 27 are of double wall con-

struction with one wall bulged, as clearly shown in the drawings, presenting to the fork a streamline effect and providing a rigid construction. Formed on the upper edges of the walls are attaching shanks 29 which pass through slots provided in the sections of the platform and are riveted or headed, as shown at 30.

Carried by the forks are wheels 31 each consisting of a hub 32 having reduced end portions 33 fitted snugly in the axle openings 28 of the fork. The hub 32 is provided with a threaded bore in which are threaded stud bolts 34 acting to compress lock washers 35 against the fork and also acting to retain the reduced end 33 of the hub in the axle openings. The wheel 31 further includes a rim 36 on which is mounted a cushion tire 37 and interposed between the rim and the hub is an anti-friction bearing 38 so that the rim can rotate with a minimum amount of friction on the hub. Side cover plates 39 are carried by the rim and extend to the hub and free to rotate relative thereto. The plates 39 act to exclude dirt and foreign matter from the anti-friction bearings. One of the plates 39 has a lubricating opening normally closed by a cap 40 so that the anti-friction bearings can be easily lubricated whenever necessary.

Skates constructed in accordance with the foregoing description and as shown in the accompanying drawings will be extremely durable, economical to manufacture and repair and will per-

mit a skater to obtain high speed and grace in skating and may be successfully used on various skating surfaces with a minimum amount of vibration and noise.

5 It is believed that the foregoing description, when taken in connection with the drawings will fully set forth the construction and advantages of this invention to those skilled in the art to which such a device relates, so that further detailed description will not be required.

10 Having thus described my invention, what I claim is:

In a skate, a platform having four groups of slots therein, some of the slots of each group being arranged in an arcuate row and the other slots of the group being arranged in a straight longitudinally extending row, a pair of front wheel carrying members separate from each other, a pair of rear wheel carrying members separate from each other, each member having its upper portion formed of two walls, one wall being straight and the other wall being of arcuate shape, the upper end of each wall having upwardly extending tongues thereon, the tongues of the straight wall fitting in the slots arranged in a line and the tongues of the arcuate wall fitting in the arcuate row of slots, the tongues being riveted to the platform and wheels rotatably arranged between the wheel carrying members of each pair.

THEODORE R. RONISH.