April 1, 1924. 1,489,197

W. DAVERKOSEN ET AL

SKATE

Filed Sept. 15, 1922

Fig. 1.

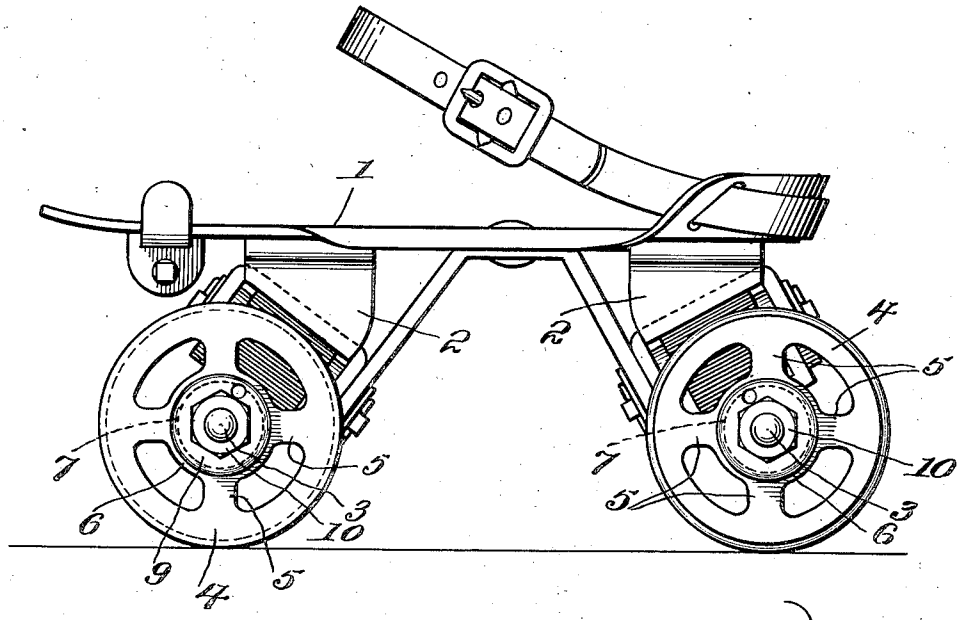


Fig. 2.

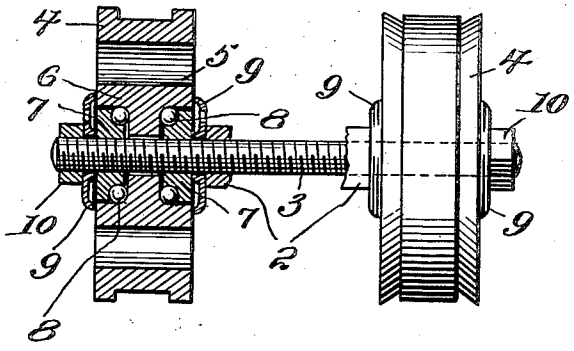
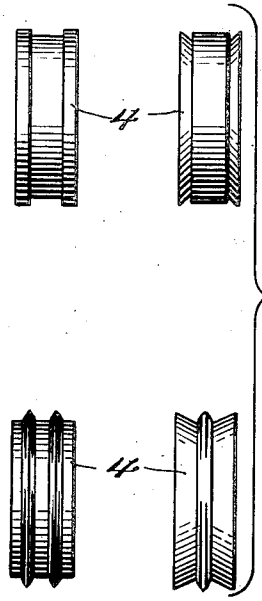


Fig. 3.



Witnesses
J. L. Wright
J. A. Nolan

Inventor
Paul H. Daverkosen
Walter Daverkosen
By Victor J. Evans
Attorney

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UNITED STATES PATENT OFFICE.

WALTER DAVERKOSEN AND PAUL H. DAVERKOSEN, OF JANESVILLE, WISCONSIN.

SKATE.

Application filed September 15, 1922. Serial No. 588,439.

To all whom it may concern:

Be it known that WALTER DAVERKOSEN and PAUL H. DAVERKOSEN, citizens of the United States, residing at Janesville, in the county of Rock and State of Wisconsin, have invented new and useful Improvements in Skates, of which the following is a specification.

This invention relates to improvements in skates and has for its principal object to produce an ice skate having ball bearing rollers which have their contacting surface grooved or cut for preventing the lateral movement of the skate.

Another object of the invention is to produce an ice ball bearing roller skate having rollers which are provided with a cone core which is designed to hold the ball bearings therein.

A further object of the invention is to produce ball bearing rollers which may be used or applied to any standard ball bearing roller skate and used in the capacity of an ice skate, said rollers being simple in construction, efficient in operation and manufactured and marketed at a moderate cost.

This invention also consists in certain other features of construction and in the combination and arrangement of the several parts, to be hereinafter fully described, illustrated in the accompanying drawings and specifically pointed out in the appended claim.

In describing my invention in detail reference will be had to the accompanying drawings wherein like characters of reference denote like or corresponding parts in the several views, and in which:—

In the drawings:

Figure 1 is a side elevation of the invention as applied to a skate.

Figure 2 is a radial sectional view of one of the rollers partly in side elevation.

Figure 3 is a view showing the rollers having grooves of different character and being arranged in formation for association with the skate.

Referring now to the drawings wherein like characters of reference denote corresponding parts 1 indicates a frame of a skate of the ordinary construction which has depending bearing brackets 2 engaging an axle 3 which is journalled in rollers 4 for connecting said rollers to the skate.

Each rollers has its contacting surface grooved or cut differently so that the rollers will obtain a firm grip on the ice and thereby eliminating lateral movement of the skate. The rollers consists of spaced spokes 5 and have a cone core 6 forming the center thereof.

Exteriorly threaded members 7 are designed to threadedly engage the axle to hold ball bearings 8 within the core of the roller. These members are arranged on each side of the rollers for the purpose already specified. Metal gaskets 9 are provided on each side of the rollers and are designed to bear against the members 7 for holding them within the core of the roller, so as to eliminate any danger of losing the ball bearings contained within said core. The axles which are journalled in the rollers are designed to connect the rollers in pairs and have their outer ends provided with nuts 10 which bear against said gaskets for positioning the latter and holding the members 7 within the core of the roller, and thereby preventing the ball bearings from being lost.

From the above it will be seen that each of these ice ball bearing rollers have their contacting surface grooved or cut differently, so as to prevent the lateral movement of the skate. It is also apparent that these rollers may be used on any standard roller skate and used in the capacity of an ice skate.

It is thought from the foregoing description that the advantages and novel features of my invention will be readily apparent.

I desire it to be understood that I may make changes in the construction and in the combination and arrangement of the several parts, provided that such changes fall within the scope of the appended claim.

What I claim is:—

An ice skate of the character described comprising a roller skate frame, ball bearing rollers mounted on the frame and each of said rollers being grooved differently as and for the purpose specified.

In testimony whereof we affix our signatures.

PAUL H. DAVERKOSEN.
WALTER DAVERKOSEN.