This invention relates generally to rink-type roller skates and more particularly to a toe stop arrangement for rink-type roller skates.

The roller skate structure of the present invention is of a kind which is particularly useful when it is desired to change from a small toe stop to a larger one, or vice versa, such as, for example, would be desirable in switching from pleasure skating to exhibition or competitive skating. Heretofore, a common practice has been to change from a pair of skates incorporating a small toe stop to a pair incorporating a larger toe stop. This, of course, necessitated possession of the two types of skates and frequently led to an individual skating with a toe stop not particularly suited to his desires or to the type of skating in which he was participating. It is, therefore, an object of the present invention to provide a novel roller skate structure of a kind which is susceptible to the attachment of different toe stops and one in which changes of the toe stops are readily made.

A toe stop arrangement of the kind exemplified herein must necessarily be suitable for preventing the various stops from working loose from the skate in use, else otherwise it would be strictly limited. Hence, another object of the invention is to provide a toe stop arrangement in which the various stops are securely fastened to the toe stop supporting structure.

Yet another object of the invention is to provide a roller skate structure which obviates manufacturing different model skates for large and small toe stops.

Still another object of the invention is to provide a roller skate which includes a toe stop supporting structure that precludes dirt and other foreign matter from fouling the means for fastening the toe stop to the supporting structure.

Further objects and features of the invention pertain to the particular structure and arrangements whereby the above objects are attained.

The invention, both to its structure and mode of operation, will be better understood by reference to the following disclosure and drawings forming a part thereof, wherein:

FIG. 1 is a general, elevational view in reduced dimension of a roller skate fashioned in accordance with the invention;

FIG. 2 is a fragmentary, sectional view of the toe stop and toe stop supporting structure of FIG. 1, a small, cylindrical toe stop being shown;

FIG. 3 is a view through the section 3–3 of FIG. 2;

FIG. 4 is a view through the section 4–4 of FIG. 2;

FIG. 5 is a fragmentary, sectional view of the toe stop supporting structure showing a large, hemispherical toe stop affixed thereto;

FIG. 6 is a perspective view in much reduced dimension of the toe stop shown in FIG. 5; and

FIG. 7 is a perspective view of a tool which may be used in changing from one type of toe stop to the other.

Referring now in detail to the drawings, specifically to FIG. 1, there will be seen a roller skate indicated generally at 10 including a sole plate 12 to which a front wheel truck assembly 14 and a rear wheel truck assembly 16 are attached by suitable means. There is also provided a brake bar 18 for linking the trucks 14 and 16 in spaced relationship.
against the bottom surface of boss 20 by means of the open-end-wrench portion 54 of the tool 46.

Switching from toe stop 56 to toe stop 22 may be affected by reversing the above described procedure.

Tool 46 may also be provided with a hexagonal aperture, 56 which may be employed like a box wrench in adjusting the wheel nuts in the truck assemblies 14 and 16.

While particular embodiments of the invention have been shown, it will be understood, of course, that the invention is not limited thereto since many modifications may be made; and it is, therefore, contemplated to cover by the appended claims any such modifications as fall within the true spirit and scope of the invention.

The invention is claimed as follows:

1. A roller skate toe stop assembly comprising a toe stop supporting structure on the forward end of a roller skate and having a threaded bore inclined downwardly and forwardly and of a predetermined diameter adapted to receive a threaded connector of a stop member of relatively large over-all dimension, an externally threaded bushing received in said threaded bore and having an internally threaded aperture of a reduced diameter relative to the predetermined diameter of said threaded bore, said bushing having a radial flange disposed in opposition to the adjacent outer face of said supporting structure, a toe stop of relatively small over-all dimension, and a bolt fixedly carried by said toe stop of relatively small over-all dimension and having an enlarged end disposed in the body of the toe stop and a threaded end projecting from the upper face of the toe stop and threadedly engaged in the internally threaded aperture of said bushing for mounting the toe stop on said supporting structure with the central upper portion of the toe stop clamped between the enlarged end of the bolt and the radial flange on said bushing.

2. A roller skate toe stop assembly as claimed in claim 1, wherein the radial flange on said bushing includes a tool receiving depression facilitating its application to and removal from said threaded bore.

3. A roller skate toe stop assembly as claimed in claim 1, wherein the enlarged end of the bolt includes flange means embedded in said toe stop with the material of the central upper portion thereof clamped between said flange means and the radial flange on said bushing.

4. A roller skate toe stop assembly as claimed in claim 1, wherein the outer face of the supporting structure is provided with peripheral protuberances exteriorly of said radial flange to engage the adjacent surface of said toe stop.

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