

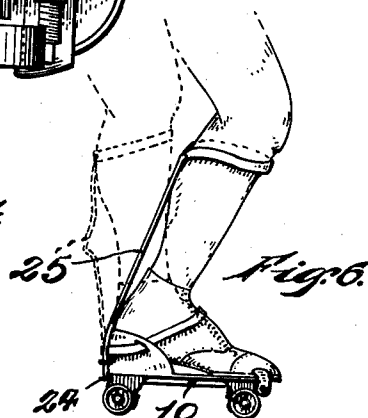
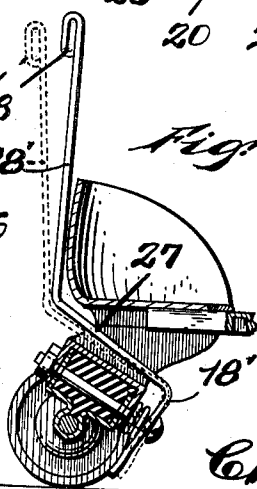
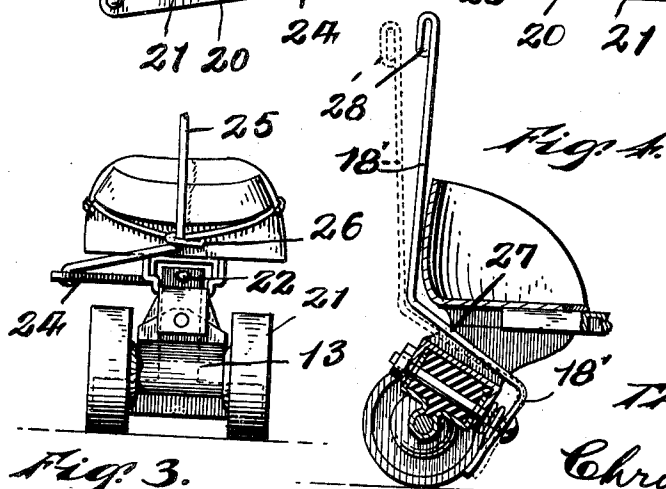
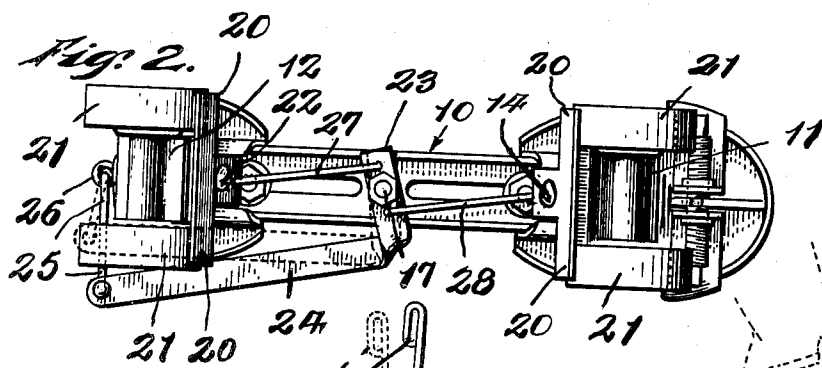
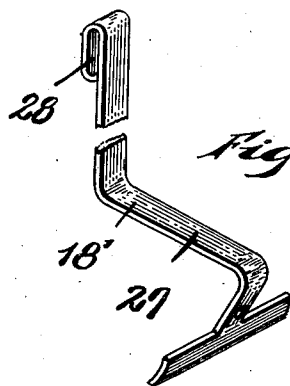
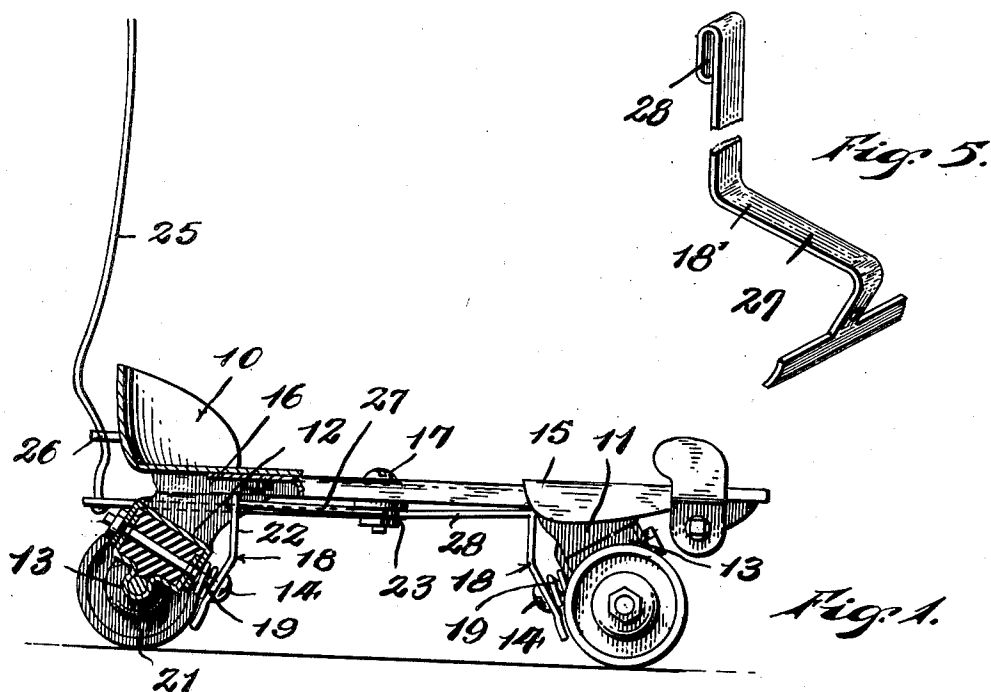
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2,179,592

ROLLER SKATE BRAKE

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ROLLER SKATE BRAKE

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4 Claims. (Cl. 280—11.20)

This invention relates to a brake for roller skates and it consists in the constructions, arrangements and combinations herein described and claimed.

5 It is an object of the invention to provide a structure in which braking action will be applied to the wheels of a skate through a bending action of the leg of a wearer of the skates, and in which the brake action is automatically released when
10 the leg assumes normal position.

It is also an object of the invention to provide a brake structure which may be readily installed upon skates now in use.

15 Additional objects, advantages and features of invention will be apparent from the following description considered in conjunction with the accompanying drawing, wherein

Figure 1 is a side elevation of a skate, partly in section, showing my brake applied.

20 Figure 2 is a bottom view thereof.

Figure 3 is a rear elevation of the skate.

Figure 4 is a sectional view of a portion of skate having a modified form of brake installed.

25 Figure 5 is a perspective of the brake of the modified form.

Figure 6 is a side elevation of a skate applied to the foot of a user, indicating the mode of applying the brake.

30 There is illustrated in Figures 1 and 2 a skate having front and rear bracket members 11 and 12 to each of which there is mounted a truck 13 by means of a bolt 14. The bracket 11 is carried by a forward section 15 extensibly connected with a rear section 16 associated with bracket 12, the sections being retained in adjusted position
35 by means of bolts 17. The construction described is well understood in the art.

Upon each of the bolts 14 adjacent their inner ends there is resiliently mounted a brake shoe 18, the shoes being apertured for reception of the bolt, a helical spring 19 being interposed between the shoe and truck 13. The shoes 18 comprise oppositely disposed contact portions 20 for braking action against respective rollers 21 of
40 the skate, and an upstanding medially disposed apertured lug 22. The spring 19 functions to maintain the brake in released position yet movable to engage the wheels for braking action as will be described.

50 A lever 23 is swingably mounted upon the bolt 17 and includes a rearwardly extended operating shank 24 apertured adjacent its free end to receive a draw cable 25, the latter having means for securement to the leg of the user, as clearly
55 shown in Figure 6. The cable 25 is preferably

passed through an eye 26 on the heel plate of the skate, and as shown in Figure 2, the apertured end of the shank 24 is approximately in alignment with the eye so that upon application of a drawing movement upon the cable, the shank 24 and lever 23 will be moved into the dotted line position which would be that occupied during application of the brakes.

A link 27 is pivotally connected to one end of the lever 23, the other end of the link being fixed in the aperture of the lug 22. A similar link 28 is similarly connected to the lever 23 opposite the bolt 17, and to the apertured lug 22 of the front brake. Obviously, the brakes will be simultaneously applied upon actuation of the lever 23,
15 through the cable 25, and when such pull is released, the springs 19 will return the brakes to inoperative position.

In Figure 4 the brake is shown applied only to the rear truck of the skate. The mounting of the brake shoe 18 is the same as that previously described and the shoe comprises a shank 27 of considerable length so as to extend rearwardly through the medial portion of the truck, which is then extended upwardly and at an angle, as indicated in dotted lines. The upper end of the shank terminates in a loop 28 for securement of a strap or cable similar to the one 25. In this form, bending of the knee of the user will cause rocking of the brake shoe in a direction to im-
25 pinge upon the rollers of the skate.

While I have shown and described preferred forms of my brake, this is by way of illustration only and I consider as my own all such modifications in structure as fairly fall within the scope
35 of the appended claims.

I claim:

1. In a roller skate having front and rear truck mounting brackets, a roller truck for each bracket, a bolt connecting respective brackets and trucks, a brake shoe loosely mounted upon the bolts, said shoe having oppositely disposed roller contact portions, a helical spring on each bolt interposed between a portion of the truck and the brake shoe normally holding the brake shoes in released position, a lever pivotally carried medially of the skate and movable in a plane parallel thereto, draw means connected between upper portions of the brake shoes and the lever, the connections with the lever being offset with respect to the pivot of the lever, said lever having an extension, strap means connected to the end of the extension, and said strap having means for attachment to the leg of a skater.

2. In a roller skate having front and rear truck

mounting brackets, a roller truck for each bracket, a bolt connecting respective brackets and trucks, a brake shoe loosely mounted on the bolt of one of the trucks, said shoe having oppositely
5 disposed roller contact portions, spring means cooperable with the brake shoe, for holding it in normal position, and draft means connected with the brake shoe and extended rearwardly of the skate and a pull strap connected to the free end
10 of the draft means.

3. In a roller skate having front and rear truck mounting brackets, a roller truck for each bracket, a bolt connecting respective brackets and trucks, a brake shoe loosely mounted upon
15 the bolts, said shoe having oppositely disposed roller contact portions, a helical spring on each bolt interposed between a portion of the truck and the brake shoe, normally holding the brake shoes in released position, a lever pivotally carried medially of the skate and movable in a plane
20 parallel thereto, draw means connected between

the upper portions of the brake shoes and the lever, the connections with the lever being offset with respect to the pivot of the lever, said lever having a substantially right angular portion extended rearwardly of the skate, an eye on
5 the skate above the right angular portion, and a draft cable threaded through the eye and connected to said rearward extension.

4. In a roller skate, a truck mounting, a roller truck for the mounting, a bolt connecting the truck and mounting, a brake shoe loosely
10 mounted upon the bolt, said shoe having oppositely disposed roller contact portions, a helical spring on the bolt interposed between a portion of the truck and the brake shoe normally holding the brake shoe in released position, and
15 said brake shoe having a medially connected lever of a length extended through the truck mounting and terminating in means for securement of a pull strap.

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