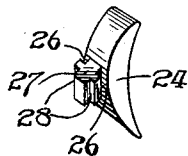
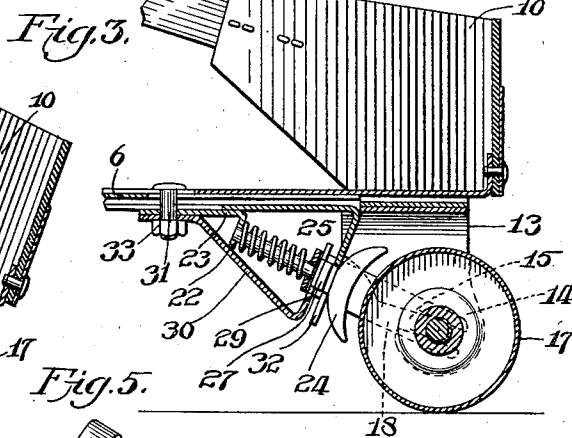
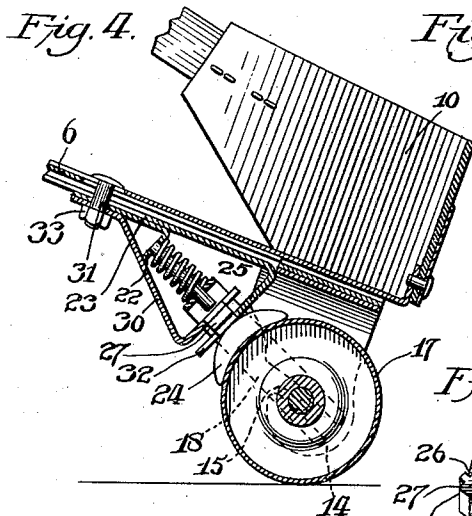
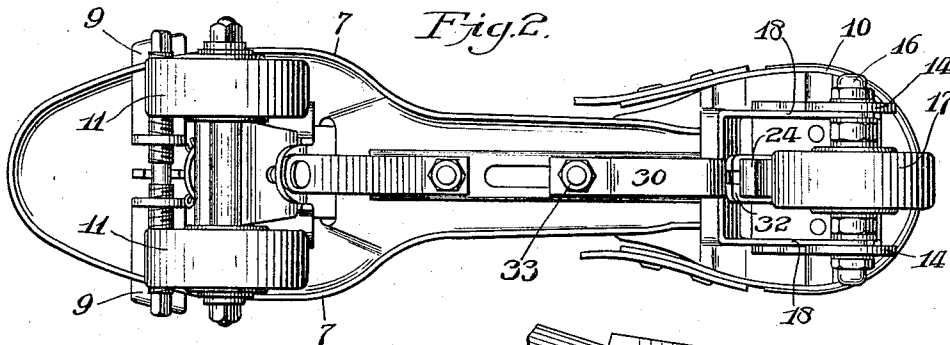
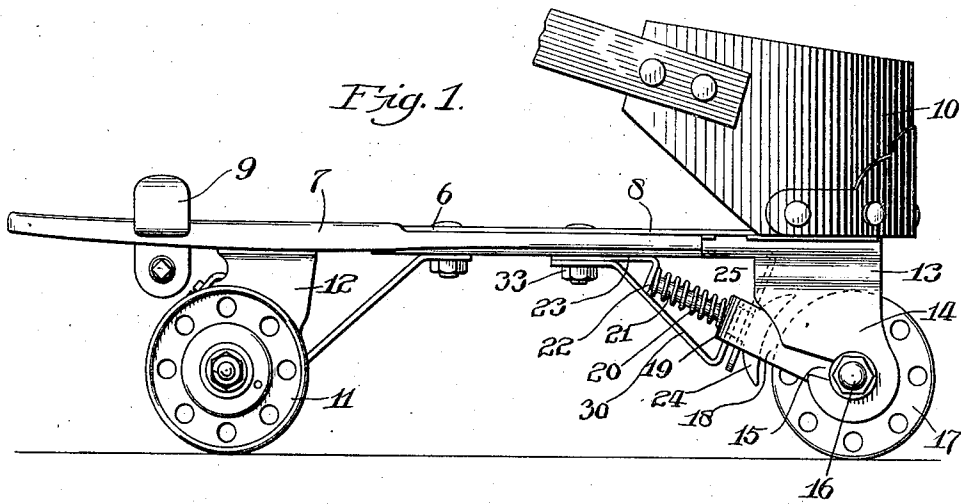


1,026,712.

Patented May 21, 1912.



WITNESSES

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ROLLER-SKATE.

1,026,712.

Specification of Letters Patent.

Patented May 21, 1912.

Application filed June 26, 1911. Serial No. 635,290.

To all whom it may concern:

Be it known that I, HENRY SIMON, a citizen of the United States, residing at Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented certain new and useful Improvements in Roller-Skates, of which the following is a specification.

My invention relates to roller skates and in such connection it has particular relation to the construction and arrangement of an improved form of brake at the rear or heel end of the skate.

The principal object of my invention is to provide a roller skate having improved means for automatically checking the rotation of the rear wheel or roller to thereby prevent the unskilled skater from falling when his heels tend to slip from under him.

The device will also be found effective for the skilled user to quickly come to a stop when desired by merely raising the front rollers from the ground.

My improved skate dispenses with the additional brake roller which has been heretofore tried for accomplishing the aforesaid purpose.

My invention contemplates more particularly certain improvements in the construction of skates having an automatic brake at the heel end thereof.

Figure 1 is a side elevation of a roller skate embodying the main features of my present invention; Fig. 2 is an underneath plan view thereof; Fig. 3 is a longitudinal central section of the rear or heel end of the skate, certain of the parts being shown in elevation; Fig. 4 is a similar view to Fig. 3, but with the parts in the positions assumed when the skate is tilted either accidentally or by design; and Fig. 5 is a perspective view of a brake block employed in the skate, shown detached therefrom.

Referring to the drawings, in the particular embodiment of my invention therein shown, 6 is the sole plate of any desired construction, but preferably made in two sections 7 and 8, longitudinally extensible with

respect to each other. The sole clamp 9 and the heel strap 10 may be of any desired construction. The front wheels or rollers 11 are supported from the under side of the front section 7 of the sole plate by means of a bracket 12 which may also be of any preferred arrangement. While there are shown two front rollers 11, it will be obvious that a single centrally disposed roller may be used in lieu thereof.

Secured to the under side of the heel section 8 of the sole plate 6 is a bracket 13 having two downwardly depending ears 14 each of which is provided with an inclined slot 15 in which is slidably mounted an arbor 16 upon which a single rear wheel or roller 17 is journaled. The inclined slots 15 extend upward and forward and are each open at the forward end so that the wheel arbor 16 with the wheel 17 mounted thereon may be easily removed when it is desired to substitute a new wheel. The arbor 16 is engaged on each side of the roller or wheel 17 by the slotted ends of a U-shaped bail piece 18 which extends forward and upward in the same general direction as the slot 15, and which is engaged at its forward, transversely extending portion 19 by a spring 20. The spring 20 encircles a rod 21, being maintained in place thereby, and bears at its other end against a downwardly extending lip 22 of a bracket 23 which also supports the rod 21. The transversely extending portion 19 of the bail 18 is suitably apertured so as to be capable of slight movement on the rod 21 upon which the spring 20 is mounted. It will be seen that the roller 17 is capable of a slight forward and upward movement against the tension of the spring 20. When the roller is thus moved forward in a manner to be hereinafter set forth it will encounter a brake block 24 which is removably mounted in a slotted downwardly extending member 25. The brake block 24 consists of a crescent shape piece of metal or other suitable material having a lug on its rear side which is provided with slots

26 for engagement by the supporting member 25 and the lug 27 is also provided with grooves 28 which are engaged by an upward extension 29 of a bracing member 30 which is secured to the under side of the sole plate structure 6 by means of a bolt 31 and nut 33.

It will be seen that the bracing member 30 not only serves to resist the strain against the brake block when the roller bears against the same, but it will also serve to hold the brake block in its proper position within the slot 32 of the supporting member 25, and provides an efficient means of releasing the brake block for the purpose of replacement when the same is worn. The bracing member 30 can readily be removed by unscrewing the nut 33 which is carried by the bolt 31 to thereby release the brake block.

The operation of the apparatus is as follows:—When both front and rear wheels or rollers rest upon the ground, the spring 20 will be of such strength as to properly maintain the rear roller at the rear end of the inclined slot 15 and out of contact with the brake block 24. When, however, the foot of the skater is inclined and the front rollers lifted from the ground, either accidentally or through design, there will be a critical angle at which the roller arbor 16 will be moved forward and upward within the slot 15 and until the wheel 17 bears against the brake block 24 and further rotation of the roller will thereby be checked. It will be seen that the arrangement is such that while being extremely light it will nevertheless be quite durable and efficient for its designed purpose. It will also be seen that the rear roller upon which the checking action occurs is one of the main working rollers and that no auxiliary rollers are employed to effect the braking operation.

Having thus described the nature and characteristic features of my invention, what I claim as new and desire to secure by Letters Patent is:—

1. In a roller skate, the combination of the rear roller, a brake block supported adjacent said roller, a bracket in which said brake block is removably mounted, and a retaining member carried by the framework of the skate for maintaining said brake block in its supporting bracket.

2. In a roller skate, the combination of the rear roller, a brake block supported adjacent said roller, a bracket having a slot in which said brake block is removably mounted, and a retaining member carried by the framework of the skate for supporting said brake block in the slot of the supporting bracket.

3. In a roller skate, the combination of the rear roller, a brake block supported ad-

jacent said roller, a bracket having a slot in which said brake block is removably mounted, and a retaining member carried by the framework of the skate for supporting said brake block in the slot of the supporting bracket, said retaining member also serving as a brace to resist the strain when the roller bears against said brake block.

4. In a roller skate, the combination of the rear roller, an arbor upon which said roller is journaled, a bracket having slots in which said arbor is slidably mounted, the slots in said bracket being inclined forwardly and upwardly and being open at the forward end, a brake block mounted adjacent the roller and against which said roller is adapted to impinge, and spring means for normally maintaining said roller out of contact with said brake block.

5. In a roller skate, the combination of the rear roller, an arbor upon which said roller is journaled, a bracket having slots in which said arbor is slidably mounted, a brake block mounted adjacent the roller and against which said roller is adapted to impinge, a bail member having slotted ends which engage the roller arbor, and a spring bearing against said bail member to normally maintain the roller out of contact with the brake block.

6. In a roller skate, the combination of the rear roller, an arbor upon which said roller is journaled, a bracket having slots in which said arbor is slidably mounted, a brake block mounted adjacent the roller against which said roller is adapted to impinge, a bail member having slotted ends which engage the roller arbor, a rod supported from the under side of the skate and upon which said bail member is guided, and a spring surrounding said rod and bearing against said bail member to normally maintain the roller out of contact with the brake block.

7. In a roller skate, the combination of the rear roller, an arbor upon which said roller is journaled, a bracket having slots in which said arbor is slidably mounted, a brake block located adjacent the roller and against which said roller is adapted to impinge, spring means for normally maintaining said roller out of contact with said brake block, a downwardly extending bracket upon which the brake block is mounted in slotted engagement therewith, and removable means for retaining said brake block in position upon said bracket.

8. In a roller skate, the combination of the rear roller, an arbor upon which said roller is journaled, a bracket having slots in which said arbor is slidably mounted, a brake block located adjacent the roller and against which said roller is adapted to impinge, spring means for normally maintain-

ing said roller out of contact with said
brake block, a downwardly extending
bracket upon which the brake block is
mounted in slotted engagement therewith,
5 and a removable bracing member for retain-
ing said brake block in position upon said
bracket.

In testimony whereof, I have hereunto
signed my name in the presence of two wit-
nesses.

HENRY SIMON.

Witnesses:

JOSEPHINE C. WOBENSMITH,
JOHN McALLISTER.