C. M. BARTHOLOMEW.

SKATE.

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1,179,496. Patented Apr. 18, 1916.

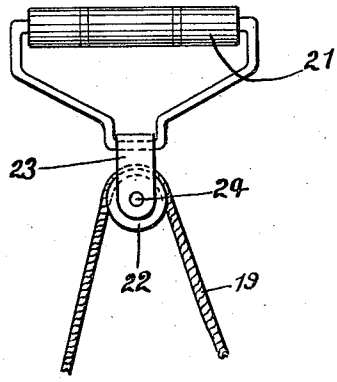


Fig. 1

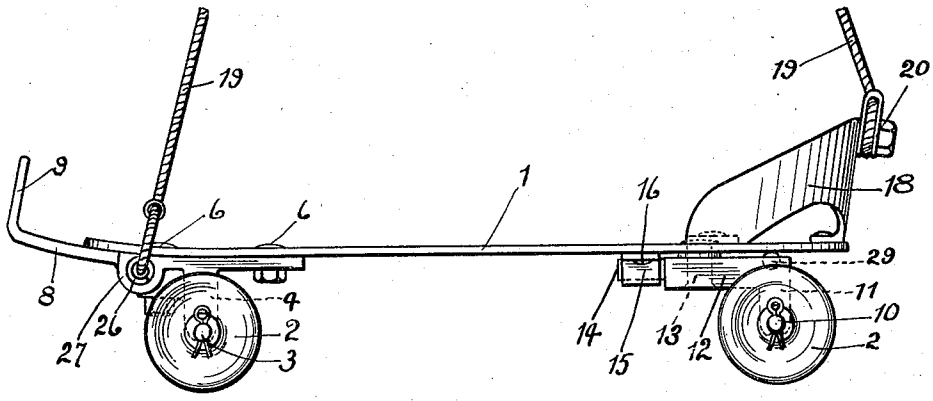


Fig. 2

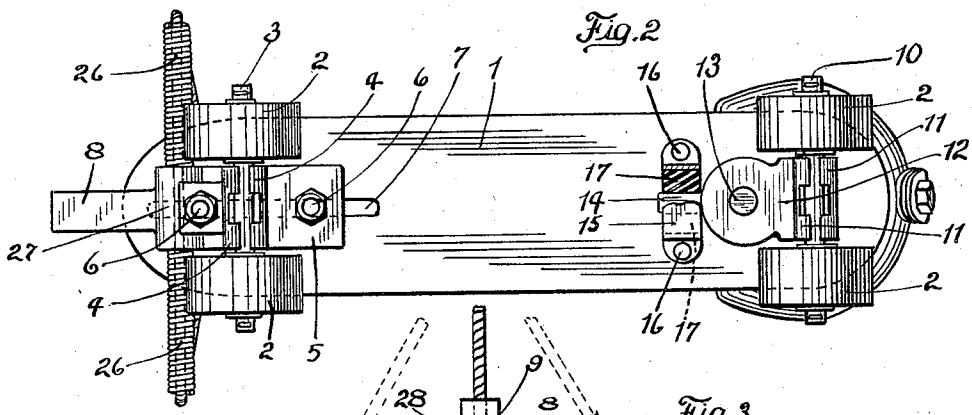
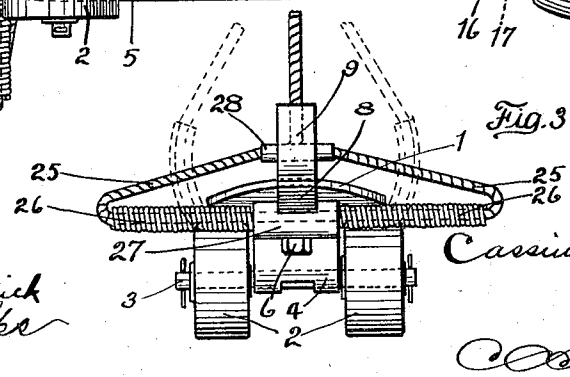


Fig. 3



Witnesses

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SKATE.

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To all whom it may concern:

Be it known that I, CASSIUS M. BARTHOLOMEW, a citizen of the United States, residing at Columbus, in the county of Franklin and State of Ohio, have invented certain new and useful Improvements in Skates, of which the following is a specification.

My invention relates to skates and is particularly designed as an amusement device or toy for use either singly or in pairs.

The main object of my invention resides in the provision of a structure of skate which may be very readily applied or released from the foot of the wearer. More specifically, the structure for accomplishing this rapid application and release, takes the form of a flexible connection of some type between the base portion or body of the skate proper of such nature that it extends upwardly to a position to be readily grasped and held by the hand of the wearer while in an erect position.

A further object of my invention resides in so constructing and arranging this flexible connection that it will grip the foot of the wearer and hold it in engagement with the skate body, the foot being held in such position as long as the flexible connection is maintained taut.

Still a further object of my invention resides in a structure of mounting the rollers in connection with the skate body, so that a pressure applied to one side will cause the skate to turn in the same direction, such as when rounding a corner or when making a turn.

The preferred embodiment of my invention is shown in the accompanying sheet of drawings, in which similar characters of reference designate corresponding parts, and in which:

Figure 1 shows a skate with my invention applied thereto in side elevation, Fig. 2 is a bottom view of the structure shown in Fig. 1, and, Fig. 3 is a front elevation looking from the left of the structure shown in Fig. 1.

In these several views, the base portion of the skate is shown as comprising a plate 1 shaped to conform in general size to the size of the foot to which it is to be subsequently applied. The underside of this base plate is provided with a plurality of rollers 2, the front set of rollers being mounted upon an axle 3 and this axle is held in position by being clamped between the projecting ends 4 of the general supporting casting 5. This supporting casting is adjustably held in connection with the base plate 1 by means of the bolts 6 whose heads operate within the slot 7 of the base plate. The forward end of the casting 5 is also provided with a forwardly extending clip 8 whose extreme forward portion is turned upwardly, as is shown at 9 to serve the purpose of limiting the forward movement of the foot in connection with the skate. The rear wheels 2 are also mounted upon an axle 10, which axle is similarly mounted between downwardly extending clamp members 11 formed on the underside of a supporting casting 12. However, this supporting casting is pivoted as is shown at 13 to the plate 1 and is also provided forward of the pivot point 13 with a projection in the nature shown at 14. This projection operates within a cover member 15 attached by means of rivets 16 to the base plate, as is shown. Further, this cover plate is so formed and is of sufficient width to accommodate the placing of a pair of rubber or other yielding sections 17, one on either side of the projection 14. Since the pivot point 13 is located between the projection 14 and the axle 10, a slight sidewise pressure on one of the wheels 2 will cause the casting 12 to pivot about its pivot 13 and this pivoting action is resisted somewhat by means of the yielding rubber sections 17. In this manner the wearer or user of the skate may conveniently guide himself whenever desired. In order to relieve the pivot 13 of practically all of the strain, I have provided balls 29 to run in a suitable raceway formed in the rear portion of the casting 12 and bearing against the underside of the plate 1.

The clip 8 coöperates with a heel guard 18 in that the clip prevents forward movement of the foot with respect to the plate 1, while the heel guard 18 prevents rearward movement. Then, when the front rollers by means of the casting 5, are properly adjust-

ed within the slots 7, the portions 9 and 18 may be so located to exactly fit the shoe of the wearer. In order to then securely hold the skate in this position, I have provided a flexible cord structure 19. I have referred to this as a cord, but I wish it to be understood that this term cord is to be interpreted to include all structures of a flexible nature which will accomplish the purpose now to be described. This cord is attached to the rear portion of the heel guard, as is shown at 20, and extends upwardly a distance to be conveniently grasped by the hand of the user while in an upright position. At this point, the cord is engaged by a hand grip designated generally by the reference numeral 21 and this hand grip carries a roller 22 at its lower end, this roller 22 being held in operative engagement with the handle 21 by means of the bent strap 23 and the pivot pin 24. From this point, the cord returns to be attached to the forward end of the skate and in order that this forward attachment may embrace the foot when the cord is held taut, as is shown in dotted outline in Fig. 3, I have divided this cord into two strands 25. The portion 25 may be a single section passing through the spring sections 26 and through a hollow boss 27 carried by the casting 5, as is shown, to be attached to the main cord 19 by means of the plate clasp 28. I desirably resort to the use of a coiled spring, but this is not essential since the purpose of the spring 26 is to simply swing back to a horizontal position, as is shown in solid outline in Fig. 3, when the pull on the cord 19 is released, this swinging back of the springs 26 serving to release the grip upon the shoe and being thereby the means of more readily permitting the withdrawal of the foot.

From the foregoing, it will be apparent that I have provided a type of skate which will be used probably merely as an amusement device for children and will more than likely be used singly instead of in pairs. This skate may be quickly applied by correctly positioning the stops 9 and 18 and then by a suitable pull upon the cord 19 through the medium of the hand cord 21, the skate may always be held in firm engagement with the foot of the wearer. The peculiar mounting of the rear wheels 2 so that they will swing from one side to another when the proper pressure is applied, will also aid the user in starting himself.

What I claim, is:

1. A skate comprising a base portion, rollers operatively mounted in connection with said base portion, and a flexible cord structure attached to said base portion at its front and rear ends, said cord being divided to form two strands, one strand of which is attached to one side of the front of said base portion and the other strand of which is attached to the other side of the front of said base portion.

2. A skate comprising a base portion, rollers operatively mounted in connection with said base portion, a flexible cord structure attached to said base portion at its front and rear ends, said cord being divided to form two strands, one strand of which is attached to one side of the front of said base portion and the other strand of which is attached to the other side of the front of said base portion, and a handle element slidably mounted in connection with said cord structure intermediate its ends.

3. A skate comprising a base portion, rollers operatively mounted in connection with said base portion, spring elements carried by and projecting outwardly from each side of the front of said base portion, and a flexible cord structure attached to the rear of said base portion and divided into two strands, said strands being attached in connection with said springs.

4. A skate comprising a base portion, rollers operatively mounted in connection with said base portion, spring elements carried by and projecting outwardly from each side of the front of said base portion, a flexible cord structure attached to the rear of said base portion and divided into two strands, said strands being attached in connection with said springs, and a handle element slidably mounted in connection with said cord structure intermediate at its ends.

5. A skate comprising a base portion, rollers operatively mounted in connection with said base portion, means carried by said base portion for preventing slippage of the foot forwardly, an upstanding guard on the rear of said base portion and a cord structure attached to said base portion and extending upwardly a distance to be grasped by the wearer when in an erect position.

6. A skate comprising a base portion, rollers operatively mounted in connection with said base portion, means carried by said base portion for preventing slippage of the foot forwardly, an upstanding guard on the rear of said base portion, a cord structure attached to said base portion and extending upwardly a distance to be grasped by the wearer when in an erect position, and a handle element slidingly mounted in connection with said cord structure intermediate its ends.

7. A skate comprising a base portion, rollers operatively mounted in connection with said base portion, an upstanding guard on the rear of said base portion, an upstanding clip on the extreme forward end of said base portion, a pair of tubular springs extending outwardly from the sides of the forward part of said base portion, a cord structure attached at one end to said rear guard and divided at its front end to

form a loop through said springs, and a handle slidably mounted in connection with said cord structure.

8. In a skate, a base portion, a member pivoted intermediate its ends to said base portion, a roller structure operatively mounted on one end of said member, and resilient means located on each side of the other end of said member for holding it in central position.

In testimony whereof I affix my signature in presence of two witnesses.

CASSIUS M. BARTHOLOMEW.

Witnesses:

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Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."