Dec. 11, 1928. 1,694,671

M. RODELLI

MOTOR ROLLER SKATE BRAKE

Filed Jan. 10, 1927

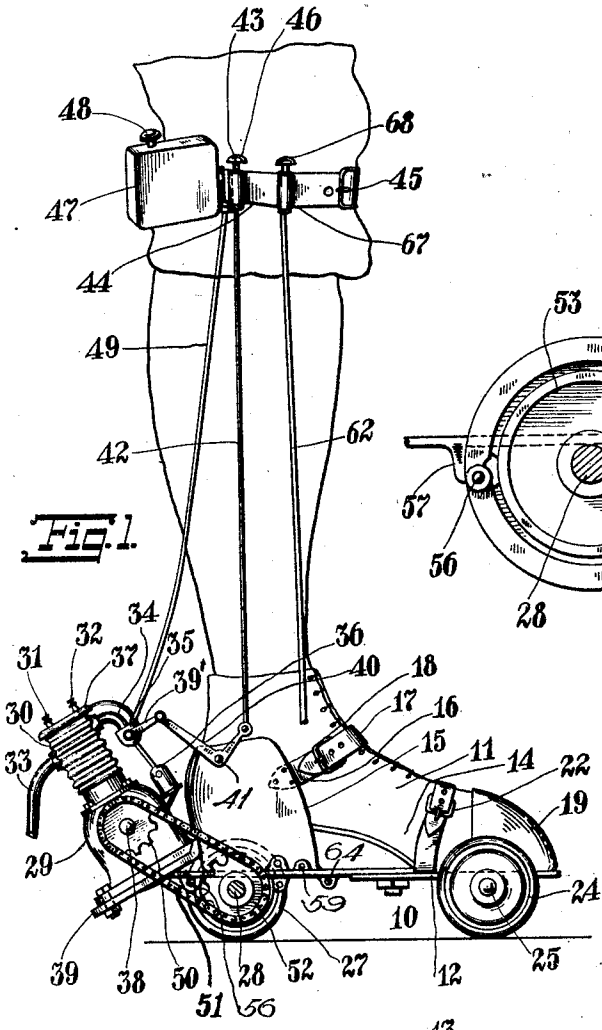


Fig. 1.

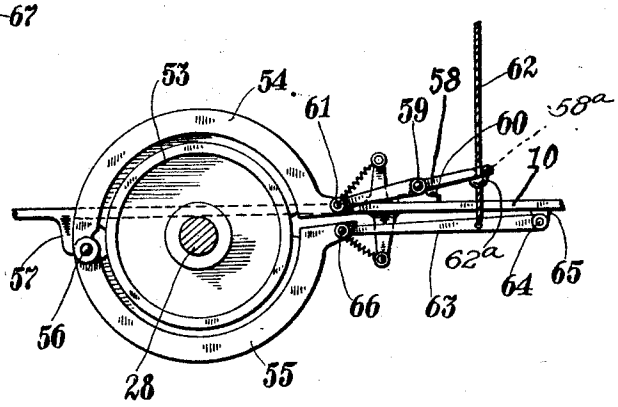


Fig. 3.

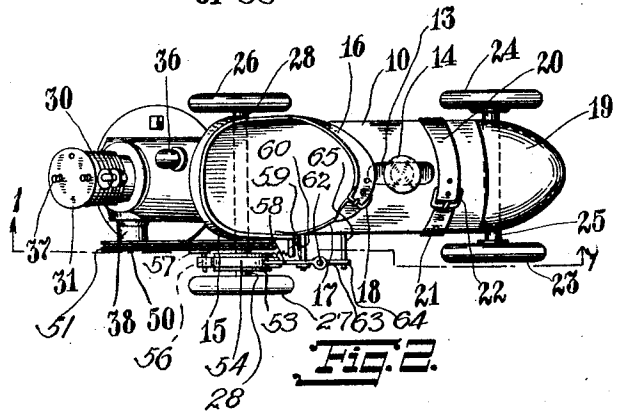


Fig. 2.

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Patented Dec. 11, 1928. 1,694,671

UNITED STATES PATENT OFFICE.

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MOTOR-ROLLER-SKATE BRAKE.

Application filed January 10, 1927. Serial No. 160,057.

This invention relates to a new and useful device in the nature of a roller skate, particularly adapted for use as a means of amusement or pleasure, and embodies a small gasoline engine as a means of propelling the roller skate.

The object of the invention is to provide a roller skate of novel construction and arrangement of parts, hereinafter more fully described, claimed, and illustrated in the accompanying drawing.

Fig. 1 is a side elevational view of my improved roller skate, attached to the shoe of a skater, as same would appear when in use, partly shown in section taken on the line 1—1 of Fig. 2.

Fig. 2 is a top plan view of my improved roller skate.

Fig. 3 is an enlarged detail view of the brake as embodied in my improved device.

As here embodied, my improved roller skate comprises a rear plate member 10, adapted to conform to the heel and rear portion of the sole of a shoe 11. The front plate member 12, is adapted to conform to the front portion of the sole of the shoe 11. The forward portion of the rear plate 10, is provided with an elongated aperture 13, adapted to receive the threaded member 14, a bolt, or the like, positioned in the front plate member 12, as a means of extending the front plate member 12, as may be desired, to fit the shoe 11. The rear plate member 10 is provided with an extended member 15, adapted to conform to the rear portion of the upper of the shoe 11. The flexible members 16 and 17, straps, or the like, are attached to the extended member 15, and are provided with the usual buckle 18, as a means of attaching my improved roller skate to the ankle of the shoe 11, of the wearer. The front plate member 12, is provided with a toe cap 19, adapted to engage the toe portion of the shoe 11. The flexible members 20 and 21, are attached to the front plate member 12, and are provided with the usual buckle 22, as a means of attaching my improved roller skate to the instep of the shoe 11. The above described construction being such as will permit my improved roller skate to be removably attached to the shoe 11 as above set forth.

The front wheels 23 and 24 are rotatively mounted on the axle 25, attached to the forward portion of the front plate member 12. The rear wheels 26 and 27, are rigidly attached to the axle 28, rotatively mounted in suitable brackets, attached to the rear plate member 10.

A gasoline engine, of relatively small bore and stroke, such as commonly employed to provide motive power, consists of a crank case 29, a cylinder 30, of the air-cooled type, mounted on the crank case 29. It being understood that the above referred to gasoline engine is of the single cylinder type, and is provided with the usual exhaust valve 31, inlet valve 32, exhaust pipe 33, inlet manifold 34, and carburetor 35. The magneto 36, is mounted on the crank case 29, and is adapted to furnish the required spark for the spark plug 37. The said gasoline engine, is provided with the usual piston, and connecting rod, not shown in the accompanying drawing. The said connecting rod is pivotally attached to the said piston, and to the crank shaft 38, rotatively carried in the crank case 29.

The crank case 29, is attached to the bracket 39, attached to and extended from the rear of the rear plate 10.

The carburetor 35, is provided with the usual throttle 39′, attached to the bell crank 40, pivotally attached as at 41, to the extended member 15. The flexible member 42, is attached to the bell crank 40, and is extended therefrom, upwardly, through the tubular member 43, attached to the belt 44, adapted to encircle the leg of the skater, and removably attached thereto by the usual buckle 45. The enlarged member 46, a button or the like is attached to the extended extremity of the flexible member 42. The fuel tank 47, adapted to hold gasoline, is provided with a filler cap 48, removably attached thereto. The fuel tank 47, is attached to the belt 44. The fuel pipe 49, of flexible tubular construction, is attached to the fuel tank 47, and to the bowl of the carburetor 35. The above described construction being such as will permit the gasoline engine to be operated at any desired speed by the manipulation of the button 46, attached to the flexible member 42.

The sprocket wheel 50, is attached to the crank shaft 38. The sprocket chain 51, is extended over the sprocket wheel 50, and over the sprocket wheel 52, attached to the axle 28, so as to permit the gasoline engine to rotate the rear wheels 26 and 27, as a means of propelling my improved roller skate.

The brake drum 53, is attached to the axle 28. The brake shoes 54 and 55, are pivotally attached as at 56, by a pin or the like, to the bracket 57, attached to the rear plate 10. The brake shoes 54 and 55 are adapted to encircle the brake drum 53. The lever 58, is pivotally attached intermediate thereof, as at 59, by a pin or the like, to the bracket 60 attached to the rear plate 10. The lever 58, is pivotally attached to the free extremity of the brake shoe 54, as at 61, by a pin or the like. The lever 58 has an aperture 58^a in its free extremity, and the flexible member 62 passes thru this aperture, and has a knot 62^a engaged against the lower side of the lever, adjacent the aperture 58^a. The lever 63, is pivotally attached, at one extremity, as at 64, by a pin or the like, to the bracket 65, attached to the rear plate 10. The lever 63, is pivotally attached, as at 66, by a pin or the like, to the free extremity of the brake shoe 55. The flexible member 62, is attached, intermediate to the lever 63. The flexible member 62, is extended upwardly through the tubular member 67, attached to the belt 44. The enlarged member 68, a button or the like, is attached to the extended extremity of the flexible member 62. The above described construction being such as will permit the brake shoes 54 and 55, to be engaged with the brake drum 53, by the manipulation of the button 68, as a means of stopping my improved roller skate.

It will be understood that a pair of my improved roller skates are required to accommodate both shoes of the skater, as is common to ordinary roller skates.

Having thus described my invention, what I claim as new and desire to protect by Letters Patent of the United States is as follows:

1. A brake of the class described comprising, a brake drum, a plate, brake shoes pivotally attached to the plate, said brake shoes adapted to encircle the said brake drum, a lever pivotally attached, intermediate thereto, to the plate, said lever pivotally attached to the said brake shoe, a flexible member attached to the said lever, a second lever pivotally attached at one extremity to the plate, said second lever pivotally attached to the second brake shoe, the flexible member attached intermediate to the second lever, said flexible member extended upwardly therefrom.

2. A brake of the class described comprising a base plate, an axle rotatively mounted on said base plate, a brake drum mounted on said axle, upper and lower brake shoes pivotally mounted on a bracket on said base plate, a lower lever pivotally attached at its rear end to said lower brake shoe and pivotally attached at its forward end to said base plate, an upper lever pivotally attached at its rear end to said upper brake shoe and pivotally mounted intermediate its ends on a bracket of said base plate, said upper lever being provided with an aperture in the forward end thereof, and a flexible member disposed at its lower end through the aperture of said upper lever and attached to said lower lever intermediate the ends thereof, said flexible member being provided with a knot directly below said upper lever adapted to engage the sides of the same adjacent the aperture thereof for rotating said upper lever and said lower lever simultaneously to apply both of said brake shoes when said flexible member is pulled upwardly.

In testimony whereof I have affixed my signature.

MICHELE RODELLI.