Oct. 27, 1925. 1,558,667

J. A. BRIED

SKATE

Filed April 13, 1921

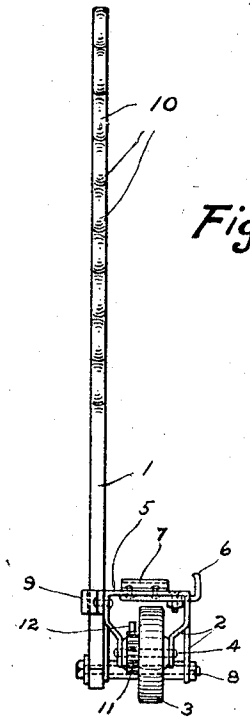


Fig. 2

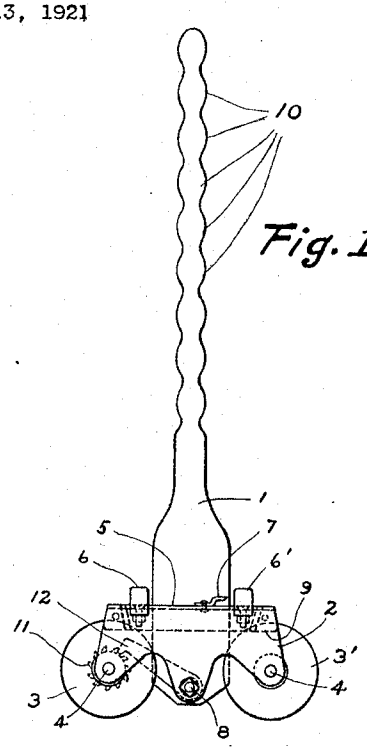


Fig. 1

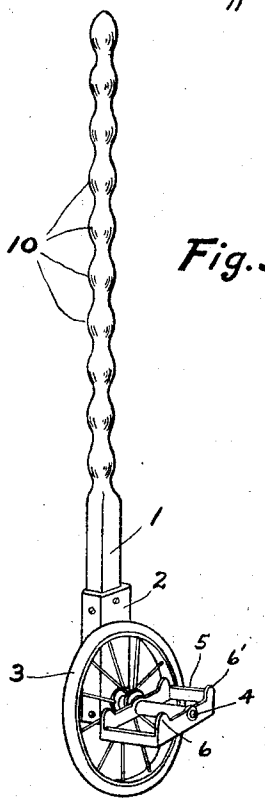


Fig. 3

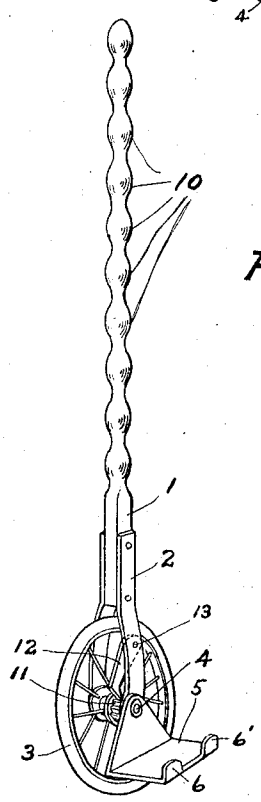


Fig. 4

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UNITED STATES PATENT OFFICE.

JULIEN A. BRIED, OF OAKLAND, CALIFORNIA.

SKATE.

Application filed April 13, 1921. Serial No. 461,048.

To all whom it may concern:

Be it known that I, JULIEN A. BRIED, a citizen of the United States, residing at Oakland, in the county of Alameda and State of California, have invented a new and useful Improvement in Skates, of which the following is a specification, and which is illustrated in the accompanying drawings.

This invention relates to "skates" as used by children and youths for pleasure and exercise, and more particularly to "roller skates."

It has for its principal objects the avoidance of the danger of spraining weak ankles, inherent in such devices, and also overcomes the necessity of strapping or otherwise attaching such devices to the shoes of the users, thereby making it possible for the rider to get off quickly in case of danger or in crossing streets etc.

In the drawings accompanying this application Fig. 1 is a side view of the preferred construction of my improved skate as made with two wheels.

Fig. 2 is an end view of the same skate.

Fig. 3 is a perspective view of a modified construction having only one wheel.

Fig. 4 is a perspective view of a still further modification of the one wheel skate having a lower foot support.

In further detail it will be noted by reference to Fig. 1 that the invention consists principally of a staff or pole 1 secured pivotally at its lower end to the center legs of an inverted U shaped six legged body or frame 2 which in turn carries wheels or rollers 3—3′ revolvable on fixed axles 4 supported by the front and rear legs of the frame 2.

The frame 2 is flattened at 5 to adapt it to support one foot of a rider, and is provided with suitable side clips 6—6′, adjustable transversely of the skate body and secured thereto by the bolts as shown, and a heel stop 7 all to steady the rider's foot upon the skate adjacent the lower part of the flat upstanding handle 1 but not to clamp it fast thereon as it is held upward against the rider's foot by being pulled upward by the rider's hand gripping the staff 1. In practice two of the devices are used, a right and a left one respectively for each foot, the poles or staffs being to the outside of either leg and drawn upward by the hands to hold the skates against the shoes of the rider.

The staff 1 is pivoted at its lower end to the frame 2 by means of a bolt 8 passing through the frame to permit of a limited oscillatory movement of the staff to suit the constantly changing position of the rider's arm and leg when riding on the device and thereby make it easier to ride, and without which freedom it would be limited to use as a "scooter" or sidewalk push foot coaster, as the slightest pressure forward or backward on the upper part of the long handle; and which would unavoidably be brought upon it in riding; would lift the forward or rearward roller completely off the ground and throw the rider.

It might be mentioned here that though more costly to construct, a flat spring handle which could bend forward and backward would be the mechanical equivalent of my positively pivoted handle, and any such equivalent is intended to be covered in my claims.

To prevent the staff from being wrenched off of the pivot it is supported at the top of the frame by the strap 9 which is riveted at its ends to the frame, and between which strap and the frame the staff has a free though limited oscillatory movement.

The staff or pole 1 is formed with a series of ball shaped hand grips 10 to give the rider a firm grip on the staff and to adapt it to different sizes of children or youths as there is a difference of about half a yard in the position a small child's hand or a tall grown person's hand would be required to grip the handle properly in order to ride. Of course a smooth handle affords a multitude of gripping places and may be used, but it is not as safe when riding fast.

The front wheel 3 is provided with a ratchet hub 11 receiving a pawl 12 pivotally supported by the bolt 8, to prevent the skate from rolling backward.

It may be noted here that the ratchet may be on either wheel or omitted entirely on any of the modifications of my device, but its use makes the device much easier and also much safer to ride.

In the succeeding views all parts having similar functions to those already described are similarly numbered.

Fig. 2 is an end view of the two wheel form of my device shown in Fig. 1, the numbered parts of which have already been described.

Fig. 3 is a perspective view of a modified form of my skate having one wheel only,

and with a foot rest 5 pivotally supported on an extension of the axle 4 which passes through the wheel 3 and is firmly fixed in the frame 2 secured to the lower end of the staff 1. The staff thus has a pivotal relation to the foot support similar in action to the construction described under Fig. 1.

No ratchet is shown in Fig. 3, but as already stated this is optional with all the modifications.

Fig. 4 is a perspective view of a similar one wheel modification to that shown in Fig. 3 but having the foot rest 5 dropped below the center of the wheel 3 to bring it close to the ground for greater safety in the one wheel modification which requires considerable agility to ride.

A ratchet hub 11 is shown on the wheel engaged by a pawl 12 pivoted to the frame 2 at 13. Other numbered parts have the same functions as described for Fig. 1.

It will be seen from the drawings that the form of the invention is susceptible of several modifications without departing from the spirit of the invention, the principal feature of which is a pole or staff like handle attached to a skate with which to hold it to the foot to obviate the otherwise necessity of clamping it thereto and thus make it easy to jump on or off, and the invention is applicable to any form of roller skates or similar devices.

I claim,

1. In a roller skate, a handle secured to the side thereof extending upwardly at the outer side of a rider's foot and leg when upon said skate, said handle being adapted for gripping by the rider's hand at various places along its upper portion for holding the skate to the foot.

2. In a roller skate, a foot supporting body, an upwardly extending handle pivotally secured to the body at the side thereof, said handle being shaped wider at its lower portion to serve as a side foot support, and with a reduced elongated upper portion adapted to serve as a handle for various heights of riders.

3. In a roller skate, a handle secured to the side thereof extending upwardly at the outer side of a rider's foot and leg when upon said skate, said handle having a series of hand grips spaced along its upper portion adapting it for selective gripping by a rider on the skate for holding the skate to the foot.

4. In a roller skate, an upstanding handle pivoted transversely to the side of the skate, said handle being shaped wider at its lower portion, with a reduced elongated upper portion with a series of hand grips along it to serve as a variable grip handle for riders of various heights.

5. In a roller skate, an upstanding handle pivotally secured to the side of the skate, the lower portion of said handle being of flat form to serve as a support for the outer side of a rider's shoe, and auxiliary adjustable shoe positioning means for holding the shoe adjacent the lower part of the handle.

6. A roller skate comprising a foot platform and two wheels only thereunder, said wheels being arranged one under the forward end of the skate and one under the rearward end, rotatably secured to the platform in rigid trucks, an upwardly extending handle secured at one side of the platform laterally offset beyond both of said wheels.

7. A roller skate comprising a foot platform and two wheels only thereunder, said wheels being arranged one under the forward end of the skate and one under the rearward end, rotatably secured to the platform in rigid trucks, an upwardly extending handle pivotally secured at one side of the platform laterally offset beyond both of said wheels.

8. In a roller skate comprising a foot supporting body, an upwardly extending handle positioned at the outerside of a rider's foot and adapted at its upper portion to be gripped by a rider standing on the skate, the lower end of the handle being pivoted to the skate, and a retaining strap around the outside of the handle secured to the body to permit pivotal oscillation of the handle yet prevent lateral deflection.

9. In a roller skate comprising a foot platform, an upwardly extending handle secured at the side of the platform at the outer side of a rider's foot, the upper portion of said handle being adapted for gripping by a rider when standing on said platform and to oscillate in a path parallel to the longitudinal axis of the skate.

10. In a roller skate, a foot supporting body with wheels thereunder, an upwardly extending handle pivoted at its lower end transversely to the body at the outer side thereof, said handle having an elongated narrow upper portion adapted for gripping at various places along the handle by a rider standing on the skate for holding the skate to the foot.

11. In a roller skate, a foot supporting body with wheels thereunder, an upwardly extending handle pivoted at its lower end transversely to the body at the outer side thereof, said handle having an elongated narrow upper portion with a series of hand grips spaced along it adapted for selective gripping by a rider standing upon the skate for holding the skate to the foot.

12. In a roller skate, a staff-form handle pivotally secured near its lower end to one side of the skate and adapted to oscillate at its upper end lengthwise of the skate, said handle extending upwardly along the outerside of a rider's leg and being adapted to be gripped by a rider's hand at various

places along its upper portion to suit riders of different heights when standing upon said skate.

13. In a roller skate, a staff-form handle pivotally secured near its lower end to one side of the skate and adapted to oscillate at its upper end lengthwise of the skate, said handle extending upwardly along the outer-side of a rider's leg and having a series of hand grips along its upper portion to adapt it to riders of various heights when standing upon said skate.

14. A roller skate comprising an inverted U shaped body shell, a foot support on top of said shell, wheels rotatably secured within said shell, an upwardly extending handle adapted to be gripped by a rider when upon said skate, said handle being pivoted at its lower end to the shell at one side thereof and adapted to oscillate along the side of the shell and be guided thereby.

15. In a roller skate, a foot supporting body with wheels thereunder revolvably secured thereto, a handle secured to the body and extending upwardly along the outer-side of a rider's leg and adapted for gripping by the rider's hand, for holding the skate to the foot, and means on said body adapted to position a rider's foot adjacent the lower part of said handle.

16. A roller skate comprising an inverted U shaped body shell with six depending legs, wheels rotatably mounted between the two extreme sets of legs and an upwardly extending handle adapted to be gripped by a rider when upon said skate, said handle being pivotally secured at its lower end to the shell at one side thereof by a pivot member passing through the central legs.

17. A roller skate comprising a foot support, wheels rotatably secured to and under the foot support, an extension depending from said foot support, an upwardly extending handle secured near its lower end to said extension, said handle being adapted at its upper portion to be gripped by a rider standing upon the skate.

18. In a roller skate, a foot supporting body with wheels thereunder revolvably secured thereto, a handle pivoted transversely at one end to the body, said handle being laterally offset beyond all of said wheels and extending upwardly along the outer side of a rider's leg and adapted for gripping by a rider's hand.

19. In a roller skate, a foot supporting body, wheels thereunder revolvably secured to the body, an upwardly extending handle secured to the body and adapted for gripping by a rider on the skate, and foot positioning means on said body adapted to position a rider's foot against lateral or forward movement thereon yet permit rearward withdrawal.

20. In a roller skate, a foot supporting body, wheels thereunder revolvably secured to the body, an upwardly extending handle pivoted transversely to the body and adapted for gripping by a rider on the skate, and foot positioning means on said body adapted to position a rider's foot against lateral or forward movement thereon yet permit rearward withdrawal.

JULIEN A. BRIED.