July 9, 1929. S. A. BUNCE 1,720,071

COASTING DEVICE

Filed April 28, 1927



Fig 1

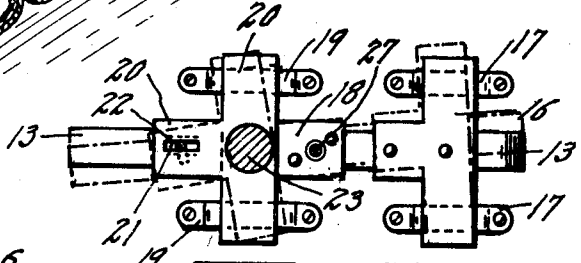


Fig 3

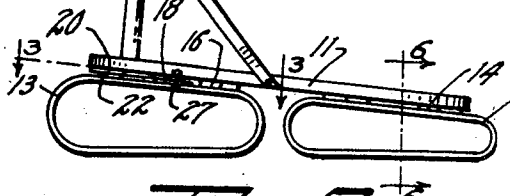


Fig 2

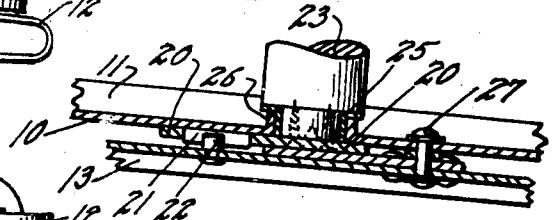


Fig 5

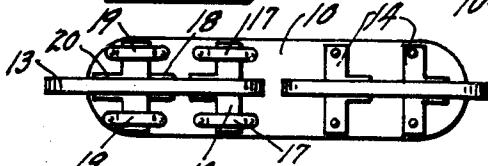


Fig 4

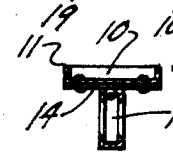


Fig 6

Inventor

SYDNEY A. BUNCE

By

Attorney

Patented July 9, 1929. 1,720,071

UNITED STATES PATENT OFFICE.

SYDNEY A. BUNCE, OF EDGEWATER, COLORADO.

COASTING DEVICE.

Application filed April 28, 1927. Serial No. 187,300.

This invention relates to a coasting device, more particularly designed for the amusement of children, and has for its principal object the provision of a foot rest provided with runners and steering post for coasting on snow and ice, so arranged that one foot may be used for propelling.

Another object of the invention is to provide a simple and substantial mechanism whereby the device may be efficiently guided by the rider.

A further object resides in the particular construction of the runners and the method of attachment of the runners to the device.

Other objects and advantages reside in the detail construction of the invention, which is designed for economy, simplicity and efficiency. These will become more apparent from the following description.

In the following detailed description of the invention, reference is had to the accompanying drawing which forms a part hereof. Like numerals refer to like parts in all views of the drawing and throughout the description.

In the drawing:

Fig. 1 illustrates my improved coasting device in use.

Fig. 2 is a side elevation thereof.

Fig. 3 is a horizontal section, taken above the forward runner, looking downwardly, on the line 3—3, Fig. 2.

Fig. 4 is a bottom view of the complete device.

Fig. 5 is an enlarged longitudinal section taken at the base of the steering post.

Fig. 6 is a vertical cross section, taken on the line 6—6, Fig. 2.

The invention comprises a foot rest 10 preferably formed of metal with an upturned surrounding flange 11. The flange 11 serves to prevent the foot from slipping from the rest 10 and also acts to stiffen the metal from which the rest is constructed. The foot rest 10 is supported on a rear runner 12 and a forward runner 13. The runners 12 and 13 are formed of channel iron as shown in Fig. 6, with the flanges turned inwardly and are formed into endless loops or ovals with their upper sides inclined to give a rearward incline to the foot rest 10.

The rear runner 12 is secured to T-shaped cross pieces 14 which are in turn riveted or otherwise secured to the foot rest 10. The forward runner 13 is pivoted to the foot rest 10 at 27 and is free to move with relation to the foot rest 10 so as to furnish guiding means. It is riveted, or otherwise secured, to a T-shaped cross piece 16 adjacent its rear end. The cross piece 16 is slidably mounted against the bottom of the foot rest 10 by means of guides 17 riveted to the foot rest. A similar T-shaped cross piece 18 is riveted to the runner 13 at its forward portion, which also rides in guides 19 secured to the bottom of the foot rest 10.

Immediately above the cross piece 18 an oppositely-facing, rotatable T-shaped steering plate 20 is carried, in the forwardly projecting portion of which a slotted opening 21 is formed. The sides of this opening are turned downwardly, as shown in Fig. 5, toward the runner and engage opposite sides of an upwardly projecting stud 22 carried in the runner.

The steering plate 20 is secured to the bottom of a steering post 23 which extends upwardly and terminates in a handle 24. The steering post 23 is provided with a ferrule 25 which supports the post in a flanged opening 26 in the foot rest.

Should it be desired to turn the device to the left, the steering post 23 is rotated in that direction causing the forwardly projecting portion of the steering plate 20 to force the stud 22 and the forward extremity of the runner 13 to the left, causing it to rotate about its pivot 27 as shown in broken line in Fig. 3. The rearward extremity of the runner is free to turn in the slides 17.

When running straight forwardly, the forward runner pivots about the stud 22 which maintains it in a fixed position at this point, the rearward extremity of the runner being free to move to each side in the slides 17 according to the condition of the surface over which it is running.

The steering post is braced by means of brace rods 28 which extend from a collar 29 backwardly and downwardly to each side of the foot rest 10. The post 23 is rotatable within the collar 29.

While a specific form of the improvement has been described and illustrated herein, it is desired to be understood that the same may be varied, within the scope of the appended claims, without departing from the spirit of the invention.

Having thus described the invention, what I claim and desire to secure by Letters Patent is:—

1. A coasting device comprising a foot

rest; a rear runner fixed to said foot rest in alignment therewith; a forward runner movably secured to said foot rest; means for moving said forward runner, said means comprising a steering post; a member provided with a slotted opening secured to said steering post; and means carried by said runner and adapted to engage in said slotted opening.

2. A coasting device comprising a foot rest; a rear runner fixed to said foot rest in alignment therewith; a forward runner movably secured to said foot rest; means for moving said forward runner, said means comprising cross pieces secured to said runner; guides slidably engaging said cross pieces to said foot rest; and means for moving said cross pieces in their guides.

3. A coasting device comprising a foot rest; a rear runner fixed to said foot rest in alignment therewith; a forward runner movably secured to said foot rest; means for moving said forward runner, said means comprising cross pieces secured to said runner; guides slidably engaging said cross pieces to said foot rest; means for moving said cross pieces in their guides, said means comprising a guide plate operatively connecting with said runner; and a steering post secured to said guide plate and adapted to project upwardly from said foot rest.

4. A coasting device comprising a foot rest; a rear runner fixed to said foot rest in alignment therewith; a forward runner movably secured to said foot rest; means for moving said forward runner, said means comprising cross pieces secured to said runner; guides slidably engaging said cross pieces to said foot rest; means for moving said cross pieces in their guides, said means comprising a guide plate operatively connecting with said runner; a steering post secured to said guide plate and adapted to project upwardly from said foot rest; means for bracing said steering post comprising a collar surrounding said post; and brace rods extending from said collar downwardly to the sides of said foot rest.

In testimony whereof, I affix my signature.

SYDNEY A. BUNCE.