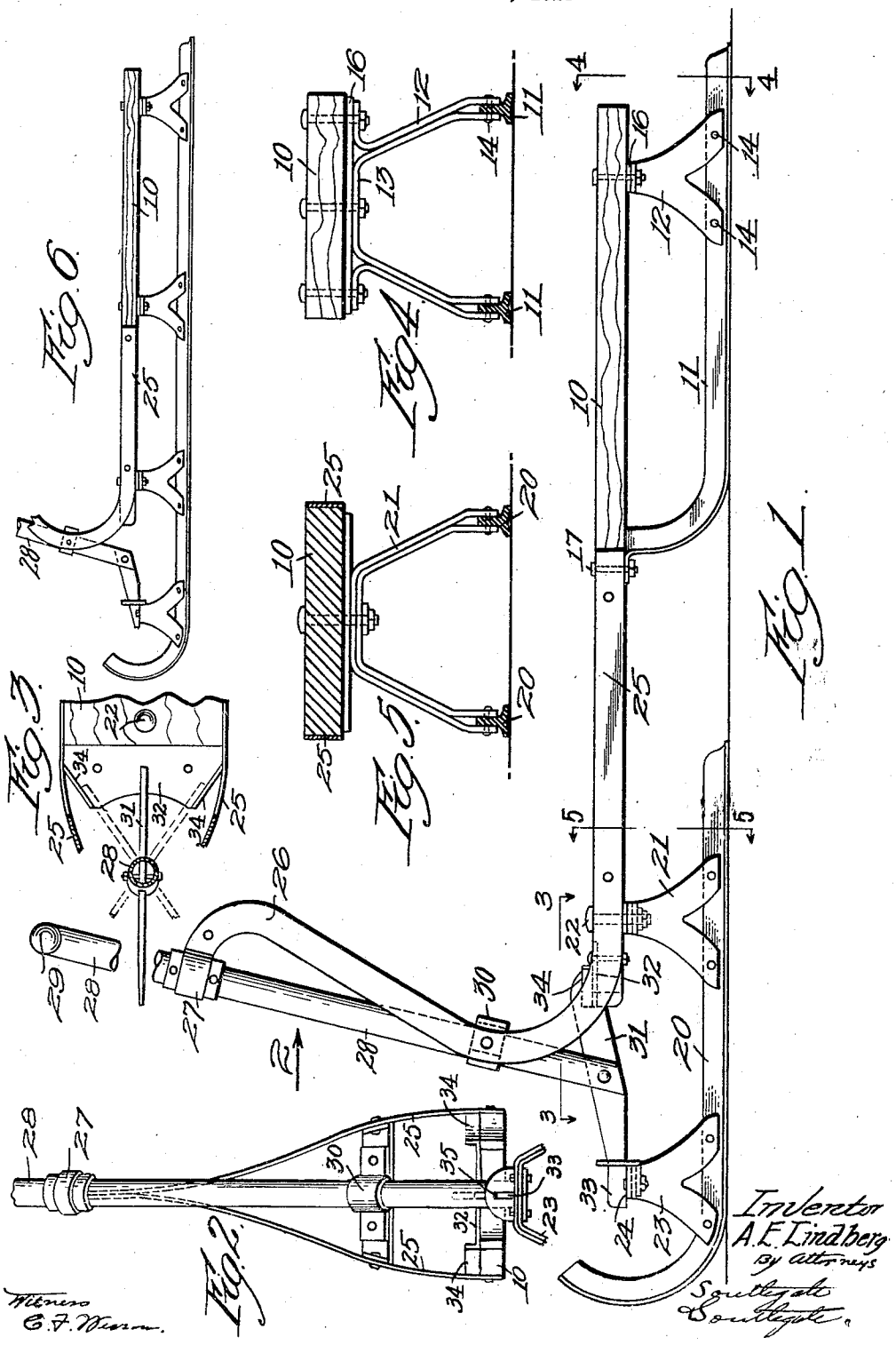
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A. E. LINDBERG

SLIDING SCOOTER

Filed Feb. 6, 1923



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# UNITED STATES PATENT OFFICE.

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## SLIDING SCOOTER.

Application filed February 6, 1923. Serial No. 617,214.

*To all whom it may concern:*

Be it known that I, ALFRED E. LINDBERG, a citizen of the United States, residing at Worcester, in the county of Worcester and State of Massachusetts, have invented a new and useful Sliding Scooter, of which the following is a specification.

This invention relates to a device adapted to be used for sliding over the surface of snow or ice.

The invention is designed to support the rider with one or both feet on the upper surface and to provide means whereby he can steer it by means of the handle by which he supports himself in position on it.

The principal objects of the invention are to provide a simple and convenient sliding device of this character, to mount the runners in a rigid and inexpensive manner thereon, and to provide an improved steering device connected therewith.

Additional objects and advantages of the invention will appear hereinafter.

Reference is to be had to the accompanying drawings, in which

Fig. 1 is a side view of a device constructed in accordance with this invention;

Fig. 2 is a front elevation of the steering arrangement;

Fig. 3 is a plan of part of the device;

Fig. 4 is a rear elevation showing the runners in section on the line 4—4 of Fig. 1;

Fig. 5 is a sectional view on the line 5—5 of Fig. 1, and

Fig. 6 is a side view showing a modification.

This invention is designed mainly as a sled or sliding toy for children. It is designed to be used by a child in the well-known manner in which he stands with one foot on top of the device and propels it along the snow or ice with the other foot. He uses a handle which extends up from the front to support himself on it and also to steer the device.

For this purpose I have shown a top 10 consisting preferably of a single board or plank extending throughout the length of the body of the device. At the rear this is provided with two runners 11 located not far apart and each formed of steel of T-shaped cross-section with the flat portion at the bottom. The upper part of this T-shaped runner is connected with the top 10 by supporting brackets at the rear. These are formed double preferably, the inner part comprising a U-shaped member 13, the extreme lower ends of which extend to the opposite sides of the runner 11 inside the same. A pair of outer members 12 extend to the outside of the runners and are secured in position by rivets 14, bolts or the like. The inner member 13 is secured to the top 10 by a central bolt and the outer members 12 are secured to the edges thereof in the same way. Underneath the top 10 there is preferably located a sheet of steel 16 through which these last mentioned bolts pass. At the front the runners 11 are bent upwardly so as to be secured to the top 10 by bolts 17. This forms a very rigid and firm practical construction for the rear of the device.

At the front there is a steering sled 20 made in substantially the same way, the details of which will not be described. It is connected by brackets 21 made like the brackets 12 with the front of the top 10 through a pivot pin 22 which is vertical and central. Therefore, the turning of this front sled on this pivot will steer the whole device. This front sled also has a front pair of brackets 23 like the brackets 21. This has a flat surface at the top at 24.

The top 10 is provided at its opposite edges along the front thereof with two steel pieces 25 which extend beyond the front end and then project upwardly to form a goose neck 26. They are connected together at the top and provided with a pivot structure 27 through which the steering rod 28 extends and in which it is capable of being turned. It is provided with a cross bar 29 at the top for this purpose. At the bottom the steering rod 28 turns in another bearing 30 and is provided below it with a lever 31 pivoted to it and resting at the rear on a flat plate 32 on the main top 10. At the front end this lever 31 is provided with a horizontal end 33 which rests on the top 24 of the bracket 23 and extends into a slot 35 therein. The plate 32 furnishes a surface over which the lever 31 is adapted to move as it is turned on its axis up to a pair of stops 34 located on the plate 32 which serve to limit the motion sideways.

When the rider turns the handles 29 he will turn the rod 28 with them and the lever 31 also. This swings the latter and turns this sled on its axis 22 for the purpose of steering the device.

In the form shown in Fig. 6 conditions are substantially the same except that the

front runners are continuous with the rear ones and are somewhat flexible to permit of steering the device in this manner instead of turning the separate sled.

A boy can stand on the sled with one foot, balancing himself thereon, and propel himself along the snow or ice at great speed with the other foot. At the same time he can keep the steering of the device entirely within his control without difficulty and he can go in almost all kinds of snow and ice because the runners are so close together and the whole sled takes up such a small amount of room sideways. It is of solid durable construction and has no parts that are likely to get loose in use.

Although I have illustrated and described only two forms of the invention, I am aware of the fact that modifications can be made therein by any person skilled in the art without departing from the scope of the invention as expressed in the claims. Therefore, I do not wish to be limited to all the details of construction herein shown and described but what I do claim is:—

1. In a scooter of the character described, the combination with a top having front side runners supporting it, a stationary member extending upwardly above the top and having two bearings one above the other, a steering rod adapted to turn in said bearings and extending upwardly, a lever connected with the bottom of the steering rod, and means for transmitting the turning motion of the lever to said runners to steer the device.

2. In a scooter, the combination with a top constituting a support for the foot of the rider and having runners supporting it, of a steering rod extending upwardly from the front thereof to a height sufficient to permit a child standing up on the top to operate the steering rod, a lever pivoted between its ends to the bottom of the steering rod, means connected with the runners for supporting one end of said lever, said lever being pivoted thereto, so that the turning of the lever will swing the runners for steering purposes, the said top also having a rest for the other end of the lever.

3. In a device of the character described, the combination with a top having runners supporting it, a member extending upwardly from the front end of the top and having two bearings, a steering rod adapted to turn in said bearings and extending upwardly at a slight rearward inclination, a lever connected with the bottom of the steering rod, the runners having a horizontal plate and the top having a horizontal plate at the front, on which plates the front and rear ends of said lever rest, and means whereby the motion of the front end of the lever will turn the runners to steer the device.

4. In a scooter of the character described, the combination with a top having front side runners supporting it, a stationary member extending upwardly above the top and having two bearings, one above the other, a steering rod adapted to turn in said bearings and extending upwardly and downwardly therefrom, a lever connected with the bottom of the steering rod, and extending forward of the front end of said top, and means for transmitting the turning motion of the lever to said runners at a point beyond the front of the top to steer the device.

In testimony whereof I have hereunto affixed my signature.

ALFRED E. LINDBERG.