Aug. 7, 1934. A. UPSACKER ET AL 1,968,975

SNOW SCOOTER

Filed April 14, 1931

Fig. 1.

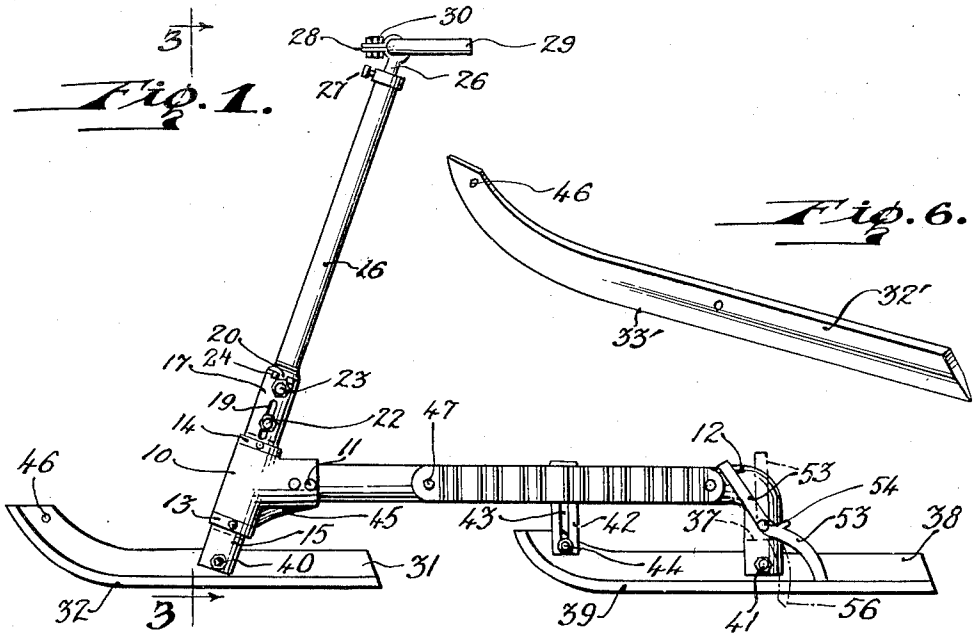


Fig. 6.

Fig. 2.

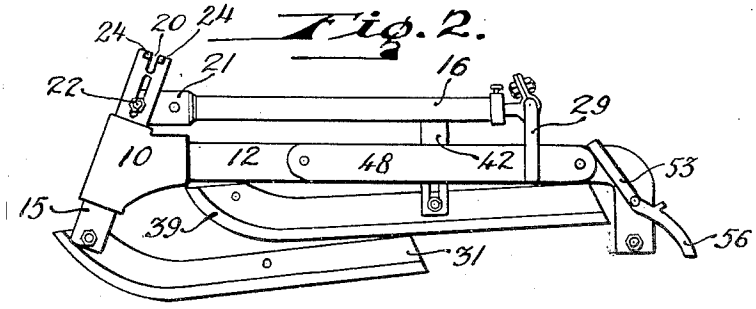


Fig. 3.

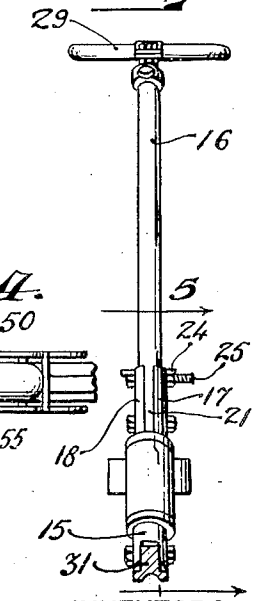


Fig. 4.

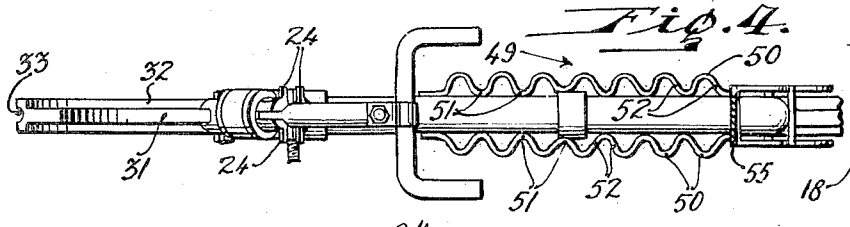
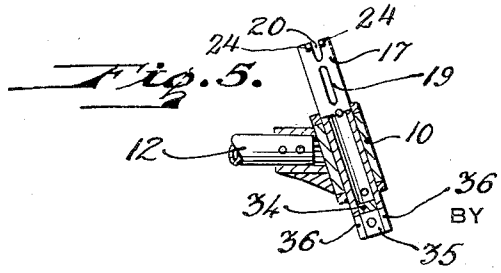


Fig. 5.



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SNOW SCOOTER

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Application April 14, 1931, Serial No. 529,944

1 Claim. (Cl. 280—16)

This invention relates to new and useful improvements in devices for travelling on snow or ice, and has particular reference to vehicles of the scooter type.

As various devices of this general class have heretofore been constructed an important object of this invention is the provision of an organization, or system, in which the constituent elements are so coordinated structurally and functionally as to assure improved results with inexpensive material which, while easy to manufacture, may also be easily kept in efficient working condition.

Since scooters are frequently carried by the users to the place at which the same are to be operated, and as it is desirable that the devices be packed as for shipment in a minimum space, another object of the invention is the provision of a scooter that may easily be taken apart, and which will readily lend itself to be packed in a compact form.

A special feature of the invention is a novel platform or footway which, forming a part of the body structure, is so arranged that while presenting a continuous longitudinally disposed edge for contacting with the foot of a user, a number of transversely disposed edge portions are also provided, this being to secure a further object of the invention.

Said edge portions are in the present instance disclosed in the form of a corrugated metal sheet, and one of the problems solved by the invention is that involved in preventing the accumulation of ice or snow beneath the foot of a user, and also in allowing the frozen material to drop freely to the ground, some of said edge portions being spaced apart and also spaced from the main body portion of the device.

With the above indicated objects in view, the invention, in the embodiment thereof at present preferred, resides in certain novel constructions, combinations and arrangements of parts, which are clearly described in this specification and fully illustrated in the accompanying drawing.

In said drawing:

Figure 1 is a lateral elevational view of our improved snow scooter.

Figure 2 is a diagrammatic view in which the device is shown in folded condition.

Figure 3 is a vertical section, taken on the line 3—3 of Figure 1.

Figure 4 is a top plan view.

Figure 5 is a vertical section, taken on the line 5—5 of Figure 3; and

Figure 6 is a perspective view of a modified form of runner.

Similar characters of reference refer to corresponding parts throughout the several views.

The body of the device includes a forward tubular section 10, in which is secured, as by fastening elements 11, a rear tubular body section 12. Turnably mounted in the section 10, and secured against relative axial movement by collars 13, 14, is a steering column which includes a pair of tubular sections 15, 16. Said collars are, in the present instance, held in place by pins, as shown.

The section 15 is formed at its top end with a pair of arms 17, 18, in which are a pair of slots 19 and a pair of notches 20. Movably embraced between these arms is the base portion 21 of the section 16; and passing through the said portion and disposed in the slots 19 is a rod or bolt 22. Disposed also in the base 21, and displaceably positioned in the notches 20 is a bolt or pin 23.

The section 16 is hinged on the rod 22, and since opposed pairs of ears 24 which are formed upon the arms 17 and 18, project above the head and nut terminals of the bolt 23 axial movement of the section 16 is prevented; but on turning the nut of the said bolt sufficiently far outwardly its stem is movable upwardly in the notches 20, whereon the section 16 is swingable downwardly to the folded position. The stem of the bolt 23 is upset at 25, so that its nut can not be completely removed.

The steering column, by means of a rod 26, which is held in any convenient position by a set screw 27, is adjustable for height. This rod is provided with split terminals 28, which embrace the handle bars 29, and as these terminals have therein a bolt 30, said bars are also adjustable, this being for convenience in the folded or packed condition of the device, as seen in Figure 2.

The section 15 is formed with a base notch to receive the web 31 of a runner 32, which in this case, is illustrated as a snow runner, the same being formed with a base flange and a longitudinal groove 33. In order to reinforce the base of the said section, a bearing block 34 is provided; below the latter the inner surfaces 36 of the base notch are in turn reinforced by embossed pieces 35.

The section 12 of the body of the device has, at its rear terminal, a block 37, like that shown at 34, for embracing the web 38 of the rear snow runner 39. Both runners which are re-

movably held in place by bolts 40 and 41, are yieldable, as when meeting obstructions, and the rear runner is provided with a guide 42, in a slot 43 of which a pin 44, carried by the web 38, is movable. This guide is suitably mounted on the body section 12, and the body section 10 is preferably reinforced, as shown at 45.

Mounted on the section 12 by fastening elements 47 is a pair of corrugated strips of metal 48, 49, the top edges of which, in the present instance flush with the top surface of said section, form a footway. The corrugated portions include outer turns 50 and inner turns 51, with interposed transverse or inclined portions 52. A light, strong footway is thereby provided, which is very secure and prevents slipping of the feet of a user therefrom, since the turned portions of the edges of the metal strips are effective to remove from the feet snow or ice, and discharge the latter freely through the spaces provided on either side of the said turns.

The device is provided with a brake, which, consisting of a frame 53, pivoted at 54, includes a top checquered pedal 55, and rear leg portions 56. When a user urges the pedal backwardly these legs are moved forwardly to contact with the ground, as indicated in dot and dash lines in Figure 1, to retard or stop movement of the scooter.

A modified form of runner 32', suitable for ice travel, is shown in Figure 6; in this case the structure includes a base edge 33'.

The hereinbefore described construction admits of further modification without departing from the invention, and it is the wish not to be limited to the precise arrangements shown and described herein, which are, as aforesaid, by way of illustration. In other words, the scope of the protection contemplated, is to be taken from the appended claim, interpreted as broadly as is consistent with the prior art.

What we claim as new, and desire to secure by Letters Patent of the United States, is:—

In a vehicle of the scooter-type, the combination of a horizontal main body, a substantially upright foot-part of a steering-post, turnably, but not slidably mounted in the front end of the main body, an upper part of a steering-post pivoted to the said foot-part and swingable around the connecting pivot, a front runner pivoted at the lower end of the steering-post, and a rear-runner pivoted at the end of the main body, a connection between the foot-part of the steering-post and the upper part of the steering post, comprising two parallel arms extending longitudinally at the end of the said foot-part, a longitudinal slot in each of the two arms, a notch at the end of each end of the latter, and a pair of ears formed upon the said arms a head and nut terminals arranged below the said ears, the latter being adapted to prevent axial movement of the upper section of the steering post, a bolt securing the upper and lower section of the steering post together, a tongue extending longitudinally from the lower end of the upper part of the said steering-post, so as to enter the said two arms, and a pivot pin through a hole formed at the end portion of the said tongue and through the said slots, and nuts secured upon the ends of the said pivot pin, substantially as shown and described.

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