

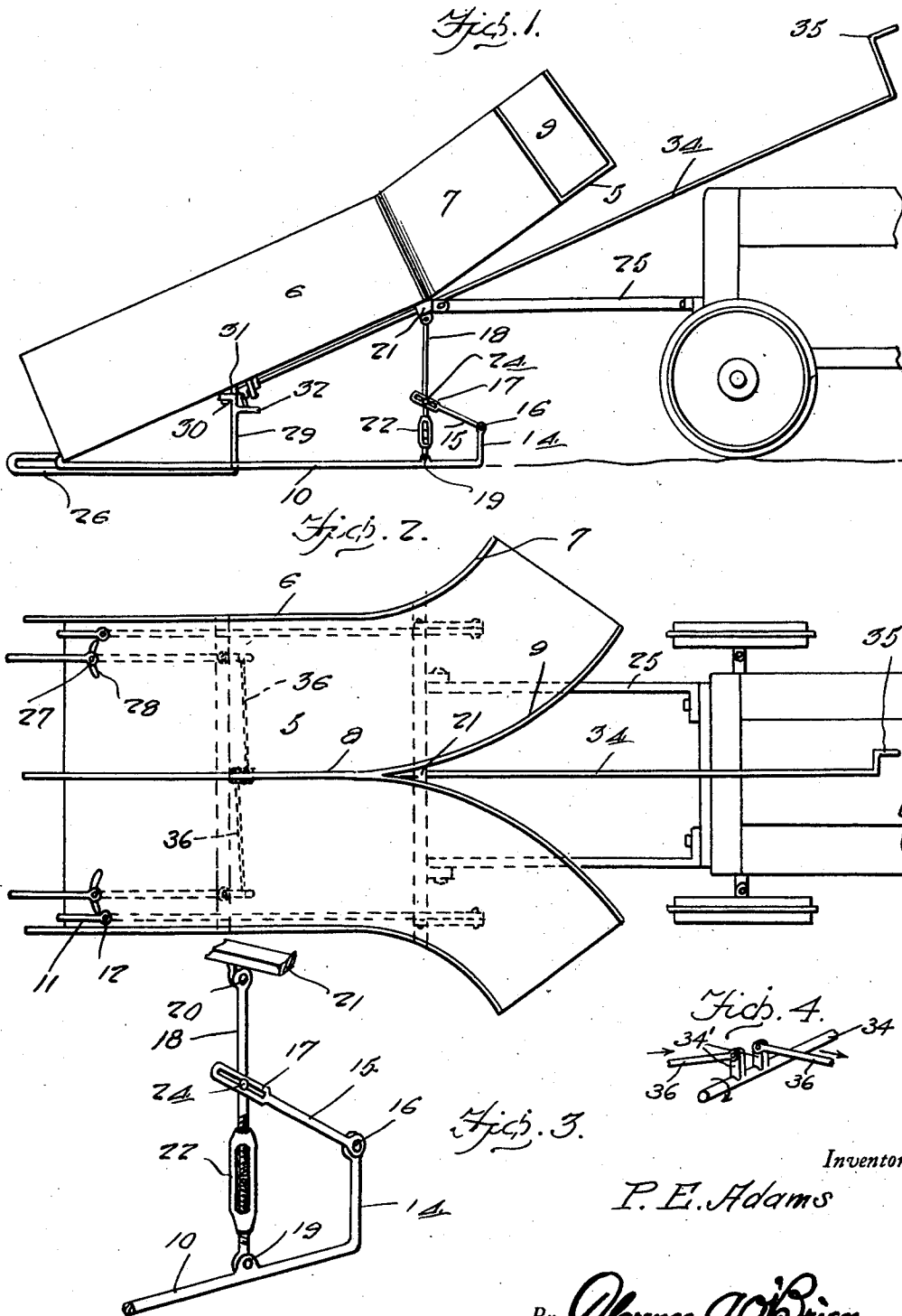
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P. E. ADAMS

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SNOWPLOW

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Inventor

P. E. Adams

By *Clarence A. O'Brien*
Attorney

UNITED STATES PATENT OFFICE

PETER E. ADAMS, OF BRULE, WISCONSIN

SNOWFLOW

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The present invention relates to snow plows and has for its prime object to provide a structure which may be pushed along by a tractor or the like and will take up the snow in front of it and deliver it to the sides.

Another very important object of the invention resides in the provision of a snow plow mounted on runners and having a steering mechanism associated therewith.

A still further very important object of the invention resides in the provision of a snow plow of this nature which is exceedingly simple in its construction, strong and durable, inexpensive to manufacture, easy to manipulate, and thoroughly efficient and reliable in its operation.

With the above and numerous other objects in view as will appear as the description proceeds, the invention resides in certain novel features of construction, and in the combination and arrangement of parts as will be hereinafter more fully described and claimed.

In the drawing:

Figure 1 is a side elevation of the snow plow embodying the features of my invention,

Figure 2 is a top plan view thereof, and

Figure 3 is an enlarged detail view of the rear end of one of the runners showing adjusting means associated therewith.

Figure 4 is a detail view of a portion of the steering means.

Referring to the drawing in detail it will be seen that the plow comprises a bottom 5 with sides 6 which are curved outwardly at their rear ends as indicated at 7 and a partition 8 rises from the bottom along the median longitudinal dimension and at its rear end merges into sidewardly and rearwardly curved branches 9 thereby forming two troughs.

The plow is supported on a pair of runners each of which includes an elongated body 10 having a hooked forward end 11 engaging over the front edge of the bottom 5 with the terminal secured thereto as at 12. At the rear end the body 10 merges into an upright 14 to which is pivoted a link 15 as at 16. The free end of the link is provided with an elongated slot 17. A bar 18 is pivotally connected with the bottom 10 as at 19 and rises therefrom and is pivotally connected as at 20 with a crossmember 21 under the rear portion of the bottom 5. The bar 18 is formed in two sections with the turnbuckle 22 therebetween for adjusting the length of the bar. A pin 24 extends laterally from bar 18 through the slot 17 thereby causing the link 15 to rock whenever the bar 18 is lengthened or shortened by the operation of the turn buckle 22 for raising or lowering the rear end of the plow thereby changing the angle of the plow to the ground. Suitable means 25 is connected with the cross member 21 and the forward end of a tractor or the like so that the tractor may push the plow along on the runners.

A pair of steering runners are associated with the plow being associated with the first mentioned runners. Each steering runner comprising an elongated body 26 extending beyond the forward edge of the bottom 5 and curved rearwardly over the forward portion of the bottom and having its terminal provided with the pin 27 extending into an arcuate slot 28. The rear end of the body terminates in a riser 29 pivoted as at 30 with the cross piece 31 under the bottom provided intermediate the ends thereof. A rearward projection 32 is provided on the riser 29 so that the riser may be rocked on the pivot 30 for swinging the steering runners to the limits of the pin and slot connection 27 and 28. A shaft 34 is journaled in the cross pieces 31 and 21 and extends rearwardly over the forward portion of the tractor so as to be readily accessible at its rear end, said rear end having a crank 35 thereon. Rods 36 are pivotally connected to projections 34' on said shaft 34. Thus when the shaft is rotated, the steering runners are moved toward the right or left depending upon the direction in which the crank 35 is swung.

It is thought that the construction, operation, utility and advantages will now be quite apparent to those skilled in this art without a more detailed description thereof.

The present embodiment of the invention has been disclosed in detail merely by way of example since in actual practice it attains the

features of advantage enumerated as desirable in the statement of the invention and the above description.

It will be apparent that changes in the details of construction, and in the combination and arrangement of parts may be resorted to without departing from the spirit or scope of the invention as hereinafter claimed or sacrificing any of its advantages.

Having thus described my invention, what I claim as new is:

1. In combination a snow plow comprising a pair of longitudinally extending troughs curved outwardly and sidewardly at their rear ends from each other, runners for supporting the plow so that said plow inclines upwardly and rearwardly, means for steering said plow, said means comprising a pair of auxiliary runners under the plow and means for swinging the auxiliary runners.

2. In combination a snow plow comprising a pair of longitudinally extending troughs curved outwardly and sidewardly at their rear ends from each other, runners for supporting the plow so that said plate inclines upwardly and rearwardly, means for steering said plow, said means comprising a pair of auxiliary runners under the plow and means for swinging the auxiliary runners, said auxiliary runners terminating forwardly of the first mentioned runners.

3. In combination, a plow, runners for the plow, a pair of auxiliary runners, means pivotally connecting the rear ends of the auxiliary runners with the plow, means for swinging the auxiliary runners, and pin and slot connections between the forward portions of the auxiliary runners of the plow.

In testimony whereof I affix my signature.

PETER E. ADAMS.