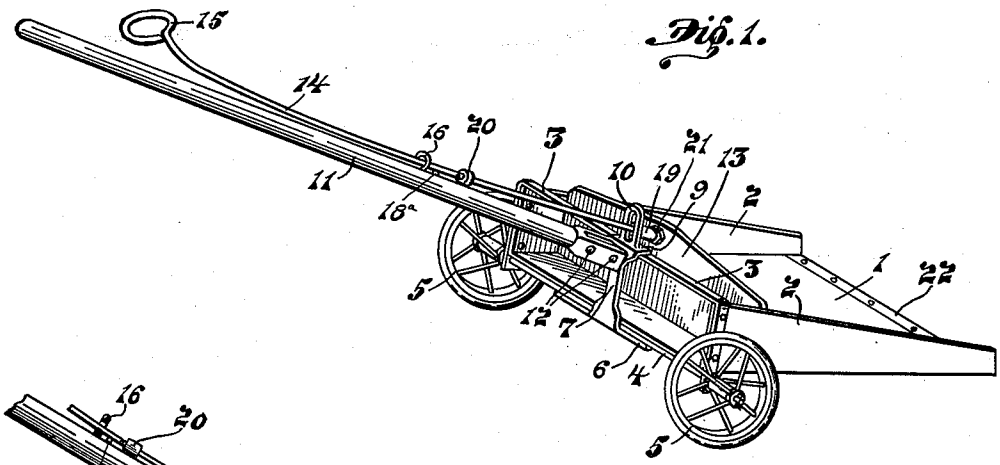
A. HUBERTY.

SNOW SHOVEL.

APPLICATION FILED JAN. 8, 1916.

1,200,196. Patented Oct. 3, 1916.

Fig. 1.



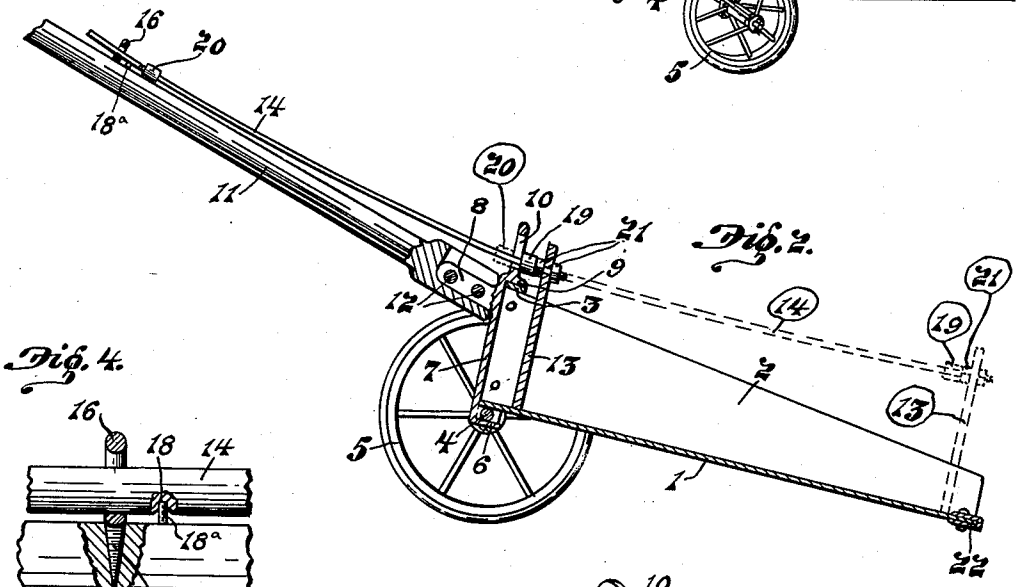


Fig. 2.

Fig. 4.

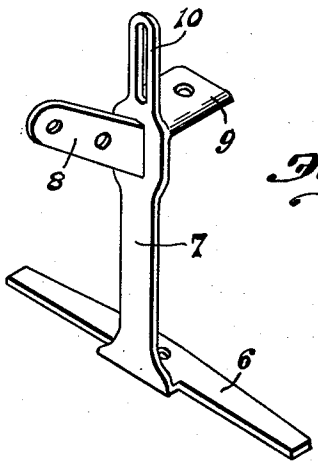


Fig. 3.

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AUGUST HUBERTY, OF CANTON, OHIO.

SNOW-SHOVEL.

1,200,196. Specification of Letters Patent. Patented Oct. 3, 1916.

Application filed January 8, 1916. Serial No. 70,949.

To all whom it may concern:

Be it known that I, AUGUST HUBERTY, a citizen of the United States, residing at Canton, in the county of Stark and State of Ohio, have invented a new and useful Snow-Shovel, of which the following is a specification.

My invention relates to improvement in snow shovels, in which traveling wheels are employed, and means for removing the snow from the shovel.

The objects of the present invention are, first, to provide a shovel blade supported upon traveling wheels, and second, to provide means for easily removing the load.

These objects, together with other objects readily apparent to those skilled in the art, may be attained by the construction illustrated in the accompanying drawings, although the invention may be embodied in other forms, the construction illustrated being chosen by way of example.

In the accompanying drawings: Figure 1 is a perspective view showing the different parts properly arranged. Fig. 2 is a longitudinal sectional view of the blade, showing parts in section. Fig. 3 is a detached view of the combined handle attaching bracket, rod guide and brace. Fig. 4 is a view showing portions of the follower operating rod and handle, showing the device for temporarily holding the rod against accidental displacement.

Similar numerals of reference indicate corresponding parts throughout the several figures of the drawings.

In the accompanying drawing, 1 represents the blade which is constructed of material commonly used for snow shovels, and may be of any desired size, reference being had to convenience in operating the shovel proper. The shovel blade as shown is provided with the side flanges 2, which are for the purpose of holding the load and at the same time adding rigidity to the shovel blade proper. These side flanges may be of the form shown or they may be of any other desired form.

To the rear end of the shovel blade 1 is attached the yoke 3, which yoke is for the purpose of stiffening the structure proper and at the same time provide means for properly attaching the axle 4, upon which the traveling wheels 5 are mounted. In the drawings I have illustrated the axle 4 as extending entirely across the rear portion, but it will be understood that it is not absolutely necessary to extend the axle 4 entirely across as stub-axles may be used in place of the axle shown. All that is necessary is to provide means for properly mounting the traveling wheels 5.

At the rear of the shovel blade 1 is located the bracket which is made up of the attaching plate 6, the upright portion 7, the handle attaching flange 8, the yoke attaching flange 9 and the slotted upright or guide 10. The handle 11 is formed of a length sufficient to provide suitable leverage to move the forward portion of the shovel blade upward and away from the ground after it has been properly loaded. The handle 11 is preferably attached to the flange 8 by means of suitable cross rivets or bolts 12, but the particular manner of attaching the handle 11 is immaterial, reference being had to a rigid connection whereby the shovel proper can be manipulated. In use the shovel proper is moved forward a sufficient distance to gather snow upon the blade 1, it being understood that at this time the push head or blade 13 should be in the position shown in Figs. 1 and 2, said push head or blade being brought into the position shown by the actuating rod 14, which actuating rod extends rearward and preferably above the handle 11, the rear end thereof being curved upward and provided with the grip ring 15 or its equivalent.

For the purpose of holding the actuating rod 14 in proper relative position with reference to the handle 11, the staple 16 is provided, which staple may consist of an ordinary eye-bolt which is connected to the handle by the screw threaded shank 17.

For the purpose of preventing any accidental displacement of the push head or blade 13 the actuating rod 14 is provided with the recess or socket 18, into which recess the pin 18^a is seated as best shown in Fig. 4. It will be understood that the opening in the eye bolt 16 should be of a size sufficient to permit the actuating rod 14 to be moved to and from the handle 11 to allow the attaching and detaching of said handle to and from the pin 18^a.

After the shovel has been properly loaded or the desired amount of snow gathered, the handle 11 is moved downward, thereby throwing the weight of the blade and its load upon the traveling wheels 5, after which the

shovel proper can be easily moved to the place or places where it is desired to discharge the load from the shovel. After the shovel proper has been brought to the place desired to be dumped the push head or blade 13 is moved forward or toward the forward end of the blade 1 by the actuating rod 14, which movement removes the snow or other material from the blade 1, after which the push head or blade 13 is brought into its former position. In Fig. 2 I have illustrated in dotted lines the push head or blade moved forward, by which movement the load contained upon the shovel blade 1, is removed by the scraping action of said push head upon the upper surface of the shovel blade 1.

For the purpose of guiding the actuating rod, the slotted extension 10 is provided, through which slotted extension the actuating rod passes. For the purpose of limiting the movements of the actuating rod 14 and the push head 13, said actuating rod is provided with the cushion stops 19 and 20, said stops coming in contact with the opposite faces of the slotted extension 10. I prefer to employ cushion stop blocks, preferably made of suitable yielding material, which may be short sections of hose, so that in actuating the push-head sudden jars or shocks will be removed from the hand of the operator.

It will be understood that a rigid connection should be made as between the push-head 13, and the actuating rod 14 and in order to provide for such connection I employ the jam nuts 21 located upon opposite sides of the push head or blade 13. It will be understood that when the handle is pressed down so as to throw the entire weight of the load upon the traveling wheels 5 more or less strain is brought about and in order to give the desired rigidity, as between the handle 11 and the shovel blade proper the flange 9 should be connected to the yoke 3 and the flange 6 to the axle 4 or to the under side of the shovel blade 1, by which arrangement the rigidity of the yoke 3 is utilized and the strain distributed to the opposite sides of the shovel blade 1.

The forward edge of the shovel blade 1, may if desired, be provided with the reinforcing strip 22, which reinforcing strip may be of the form shown or of any other desired form, as its only object is to stiffen the forward edge of the shovel blade. It will be understood that by the use of the push head or blade 13 that it will act as a back for the shovel blade, the snow or other material being moved backward and in contact with said push head during the time the shovel is moved forward to gather a load of snow or other material.

While the present invention is especially designed as a snow shovel, I do not desire to be confined to any specific use as it will be readily seen that regardless of the material designed to be removed, the action of the shovel will be the same.

If desired, the plate 6 and the axle 4 may be riveted or bolted together or the plate 6 may be riveted or bolted to the under side of the shovel blade as desired.

Having fully described my invention what I claim as new and desire to secure by Letters Patent, is:

1. In a device of the character described, the combination of a shovel-blade, an axle secured to the rear end of the shovel-blade, traveling wheels mounted upon said axle, a handle-bracket secured in fixed relationship with reference to the shovel-blade, a push head slidably mounted upon the shovel-blade, an actuating rod secured to the push head, a guide flange located at the upper end of the handle-bracket, said actuating rod passing through the guide flange and adapted to guide the actuating rod.

2. In a device of the character described, the combination of a shovel-blade, a yoke fixed to said shovel-blade, an axle secured to said yoke and said axle provided with traveling wheels, a bracket located at the rear end of the shovel-blade, said bracket made up of an axle attaching plate, an upright portion, a handle connecting flange, a guide flange, and a yoke attaching flange, a push head slidably mounted upon the shovel-blade, an actuating rod secured to said push head and passing through the guide flange of the bracket, means for limiting the movements of the actuating rod and means for holding the actuating rod against longitudinal movement.

In testimony that I claim the above, I have hereunto subscribed my name.

AUGUST HUBERTY.