The object of this invention is to provide a new and improved shovel that can be used either for shoveling snow, or for pushing the snow, or for scraping the snow.

Another object of the invention is to make the handle on the shovel adjustable so that the angle between the blade of the shovel and the handle can be changed from time to time, and so that the position of the handle on the blade can be reversed or so that either the forward or the rear edge of the blade can be used.

These and other objects of the invention will be illustrated in the drawing, described in the specification, and pointed out in the claims at the end thereof.

In the drawing:

Figure 1 is a side elevation of the shovel with the handle of the shovel standing parallel to the blade thereof.

Figure 2 is a side elevation of the shovel with the handle of the shovel standing at an angle to the blade of the shovel.

Figure 3 is a rear elevation of the shovel, showing the connection between the blade of the shovel and its handle.

Figure 4 is a plan view of the blank from which the brackets are formed, which brackets are used on the blade of the shovel.

Figure 5 is a side elevation of a modified form of the blade with the handle attached thereto.

Figure 6 is a horizontal section on the line 6z—6z of Figure 5, showing the blade curved forward at the ends.

The drawing reference numeral 1 indicates the blade of the shovel, in which four bolt or rivet holes are provided, which holes are numbered 2, 3, 4, and 5. 6 indicates a blank having a rectangular plate 7 thereon connected to a semicircular plate 8. The semicircular plate 8 is bent up at right angles to the rectangular plate 7 and these plates form the brackets 9 and 10, which are fastened to the blade 1 by the rivets 11, 11, which rivets pass through the holes 2, 3, 4, and 5. In each of the blanks 6 is a hole 12 which hole is located substantially at the center of the semicircular part of the bracket.

The handle of the shovel consists of a stem 13, preferably of wood. On this handle is a fork 14 having four arms thereon 15, 16, 17, and 18. The arms 15 and 18 are long and are pivotally connected to studs 19 in the holes 12. The arms 16 and 17 are short, and on these arms are mounted sliding pins 20, 20, each of which has two ends, one of which is longer than the other. The long end of each of the pins 20 passes through a hole in the short arm and the long arm is adapted to engage with any one of the slots 21 in the semicircular plate. The short end of the pin 20 passes through a hole in the short arm, and between the engagement of the pin in these three holes the pin is held very positively in its proper position.

On the long end of each of the pins is a spring 22, which bears at one end against the short arm and at the other end bears against a fixed pin 23. The expansion of this spring holds the long end of the pin in engagement with the notch 21. The outward movement of the pin by the spring is limited by the fixed pin 24 which bears against the inner side of the short arm.

By pulling the pins 20, 20 toward the center of the shovel, the pins are disengaged from the slots in the plates 8, and the handle can be rotated to a different position and can then be locked in engagement with the semicircular plates in the new position. In this way the handle can swing on the brackets through 180 degrees and can be fastened in any one of five different positions.

In either of the extreme positions the outer edges of the shovel can be used for cutting under the snow, and in the intermediate positions the shovel can be used as a scraper.

I claim:

1. A shovel having a blade, brackets mounted on either side of the center of said blade and extending rearward therefrom, a handle having arms thereon that extend outwardly therefrom, the ends of said arms being parallel to the brackets and pivoted thereon, pins mounted on said arms engaging with notches in the brackets by which the position of the handle can be adjusted angularly with reference to the blade of the shovel, said pins being mounted between the arms and moving parallel to the blade to engage the brackets.

2. A shovel having a blade, brackets mounted on either side of the center of said blade and extending rearward therefrom, a handle having four arms thereon that extend outwardly therefrom, two of said arms being long and having the ends thereof parallel to the brackets and pivoted thereon, the other two arms being shorter and parallel to and inside of the arms engaged with the brackets, a pin mounted on each of the short arms and extending through the nearest long arm and engaging with one of the notches in the adjacent brackets by which the position of the handle can be fixed with reference to the blade of the shovel.
3. A shovel having a blade, brackets mounted on either side of the center of said blade and extending rearward therefrom, a handle having arms thereon that extend outwardly therefrom, the ends of said arms being parallel to the brackets and pivoted thereon, pins mounted on said arms engaging with notches in the brackets, the inner ends of said pins being located near each other so that they can be readily grasped with the fingers of one hand and drawn together out of engagement with the brackets, said pins being mounted between the arms and moving parallel to the blade to engage the brackets.

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