Nov. 13, 1962 E. LUDIN 3,063,174

SCOOP SHOVEL

Filed Feb. 3, 1961

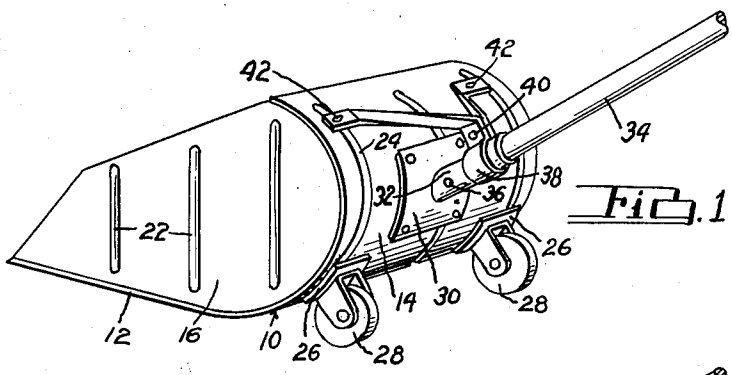


Fig. 1

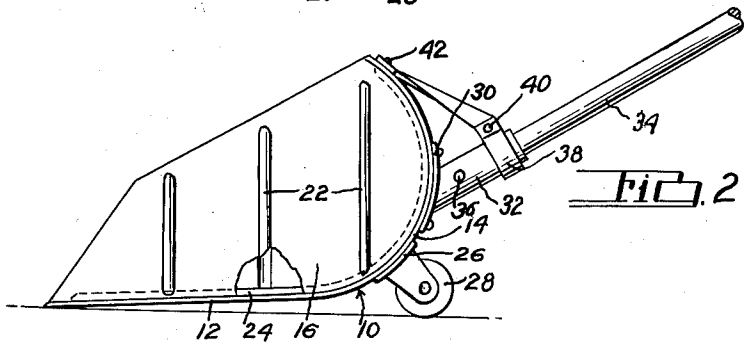


Fig. 2

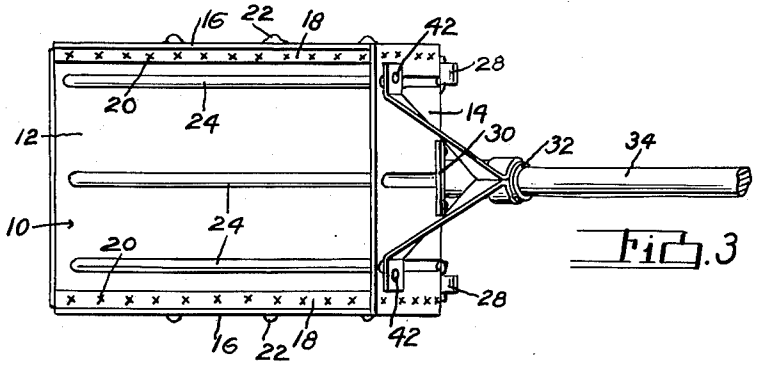


Fig. 3

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SCOOP SHOVEL

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1 Claim. (Cl. 37—130)

This invention relates to a shovel of the scoop type wherein the rear portion of the shovel is supported by rollers and particularly adapted for use in removing snow or the like.

It is an object of the present invention to provide a shovel which requires no lifting. It is merely pushed forward with the weight of its contents supported by the rollers.

Another object of the invention is to provide an inexpensive device which is easily manufactured, sturdy in construction, and easily manipulated.

Other objects and advantages of the invention will be more fully understood from the following description taken in connection with the accompanying drawings in which:

FIG. 1 is a perspective view of the improved scoop shovel;

FIG. 2 is a side elevational view of FIG. 1; and

FIG. 3 is a top plan view of FIG. 2.

Referring to the drawings, I have shown the shovel as being primarily formed from sheet steel stampings including a bottom panel **10** having a flat horizontal portion **12** and an upwardly extending back portion **14** which extends from the rear of the flat portion **12** in curved relation, terminating in an edge above the rear of the flat horizontal portion **12**. Oppositely spaced side panels **16** are provided with inwardly extending flanges **18** extending along their lower edges and the rear edges of the side panels which are shaped to fit the contour of the curved surface of the back portion **14**. The flanges **18** are spot welded or otherwise secured to the bottom panel **10**, adjacent the side edges thereof, as indicated at **20**. The upper edges of the side panels **16** are tapered from the front edge of the back portion **14** to the front edge of the bottom **10**.

Vertically extending ribs **22** are pressed into the side panels **16** and longitudinally extending ribs **24**, extending into the back portion **14**, are pressed into the bottom panel **10** to give rigidity to the panels.

At the rear of the scoop and adjacent the bottom thereof are brackets **26** which are spot welded or bolted to the curved back portion **14**. These brackets support rollers **28** forming a support for the rear end of the scoop.

These rollers **28** are of such a diameter, or the brackets **26** are so positioned, that the bottom rear portion is raised above the front edge of the flat portion **12**, as shown in FIG. 2.

Another bracket **30** is secured to the central portion of the curved back portion **14** and is provided with a tubular extension **32** which receives a handle **34** secured therein by a bolt **36**. The tubular extension is further supported by a band having its intermediate portion **38** wrapped around the tubular extension **32** and secured tightly thereto by a bolt **40** passing through the arms of the band with the outer ends of the band secured to the curved back portion **14** adjacent the outer edges thereof as at **42**.

The scoop shovel is easily manipulated and is inexpensive to manufacture. Because of its construction it is sturdy.

The form herein illustrated and described is the desired form, but it will be understood that various changes in the size, shape and arrangement of parts may be made without departing from the spirit of the invention and it is my intention to cover by the appended claim such changes as may be reasonably included within a reasonable interpretation of the meaning of the terms therein.

I claim:

A scoop shovel of the class described, comprising a single piece sheet metal flat bottom section having its rear portion curved upwardly forming a back section with the upper edge of said back section overlapping said bottom section, longitudinally extending ribs in said bottom and back sections, spaced side panels having inwardly extending flanges secured to said bottom section and said back section, rollers carried by said bottom and back sections so positioned that the outer periphery of said rollers extend beyond the lower plane of said flat bottom section, a tubular extension secured to said back section, a handle secured to said tublar extension, and a brace member between said tubular extension and the outer surfaces of said curved back section.

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