Aug. 20, 1957 W. G. POCHOPIEN 2,803,071

SNOWPLOW

Filed July 23, 1954

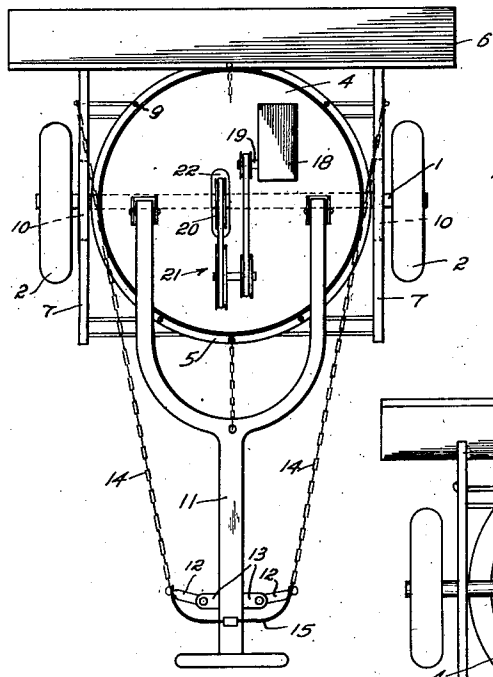


Fig. 1

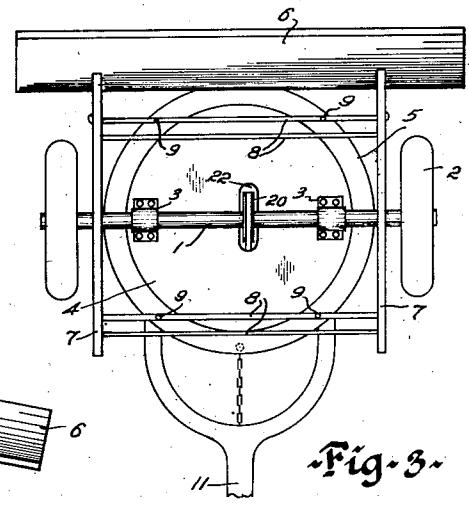


Fig. 3

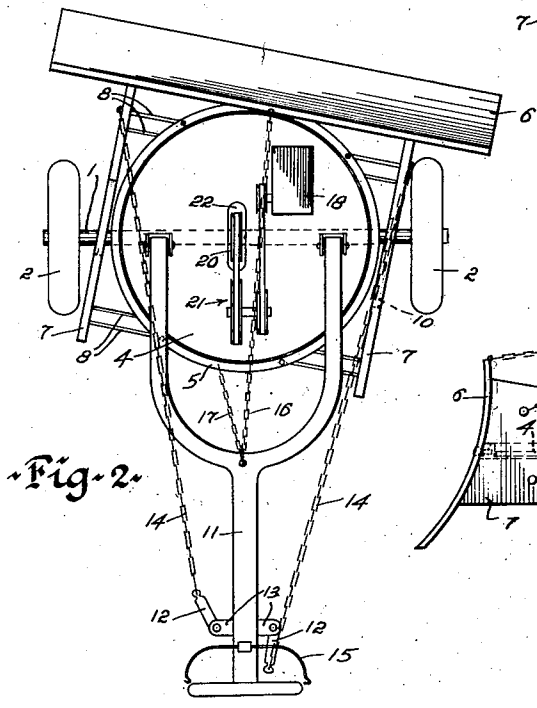


Fig. 2

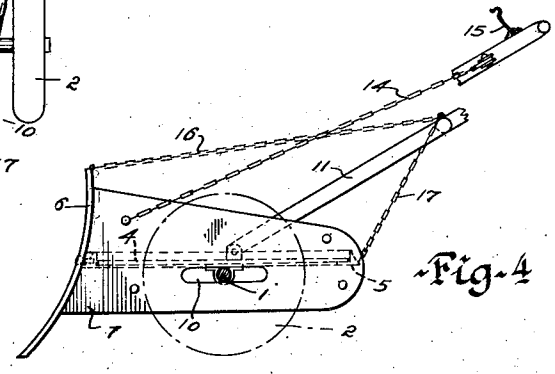


Fig. 4

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United States Patent Office

2,803,071

Patented Aug. 20, 1957

2,803,071

SNOWPLOW

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Application July 23, 1954, Serial No. 445,335

3 Claims. (Cl. 37—53)

This invention relates to snow plows of the manually guidable type.

An object of the invention is to provide a wheel-supported snow plow which is of simple, inexpensive construction and which may be operated by one man for effective, rapid and easy snow removal, and which is capable of convenient adjustment.

The invention will be described with reference to the accompanying drawing, in which—

Figure 1 is a top plan view of a snow plow in accordance with the invention,

Figure 2 is a top plan view showing the plow in one adjusted position,

Figure 3 is a bottom plan view, and

Figure 4 is a side elevation.

In the drawing, the plow comprises a wheel-supported frame having an axle 1 supported on wheels 2. The axle 1 is mounted in bearing brackets 3 fixed to the under side of a disc 4. It will be observed that the axle 1 extends substantially diametrically of disc 4. A plow blade supporting frame comprises a flanged rim 5 in which the disc 4 is revolvably mounted. A plow blade 6, which may be curved in cross section as shown, is carried by a pair of rearwardly extending plates 7. The blade 6 may be fixed at 8 to the curved edge of the rim 5. The plates 7 are connected together by means of supporting bars 8, a forward and a rearward one of such bars being fixed to the under side of rim 5 as by means of screws or bolts 9.

The axle 1 extends through slots 10 in the plates 7 whereby the blade 6, plates 7 and rim 5 are swingable as a unit to vary the position of the blade 6 with relation to axle 1. A handle 11 is pivotally mounted on the upper side of disc 4.

Means for positioning and retaining the blade 6 in one of several positions with relation to axle 1 comprises a pair of levers 12, each pivotally mounted on a bracket 13 carried by the handle 11 adjacent the free end thereof. The brackets 13 are aligned on laterally opposite sides of the handle. An actuating member, which may be in the form of a flexible chain or cable 14, is secured at one

end to each lever 12 and at its other end to a respective plate 7 adjacent the forward portion thereof. When it is desired to position the blade 6 in substantially parallel relation to axle 1, the levers 12 are swung rearwardly to a substantially equal extent, as shown in Figure 1, and are retained in such position by means of a U-shaped strip 15 turnably mounted on handle 11 and having hooked ends for engagement with the ends of levers 12.

When it is desired to place the blade 6 in either right or left angular position with respect to axle 1, as shown in Figure 2, the strip 15 is disengaged from the levers and a respective lever 12 is swung rearwardly (the other lever swinging forwardly), and the resultant pull on the respective cable 14 will swing the blade 6 into angular position.

Means for holding handle 11 in an upwardly extending position may comprise a chain or cable 16 secured at one end to the handle and at the other end to the upper edge of blade 6.

Means for preventing backward tipping movement of the machine may comprise a chain or cable 17 secured at one end to the handle and at the other end to the rearward portion of rim 5.

Power means may be provided for driving the axle 1 to facilitate operation of the machine. As shown, such power means may comprise a motor 18 mounted upon the upper side of disc 4 and having a driving shaft 19, a wheel 20, such as a pulley or gear fixed to axle 1, and a driving means 21 connecting wheel 20 and driving shaft 19, the disc 4 being apertured at 22 to permit passage of the driving means.

What I claim is:

1. A snow plow comprising a disc, a wheel-carrying axle journalled on one side of said disc, a handle mounted on the other side of said disc, a flanged rim carried by said disc and having limited rotary movement thereabout, a pair of plates fixed to one side of said rim, a plow blade fixed to said plates, each said plate having a slot therein through which said axle extends, and means connected to the handle for swinging said plates and blade relatively to said axle.

2. A snow plow as defined in claim 1, including power means mounted on the other side of said disc and having a driving connection with said axle.

3. A snow plow as defined in claim 1, said last mentioned means comprises a pair of levers pivotally carried by said handle, and means connecting each said lever to a respective one of said plates.

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