Jan. 26, 1926. 1,570,935

P. BOOTH

POWER DRIVEN SAW

Filed May 17, 1924

Fig. 1

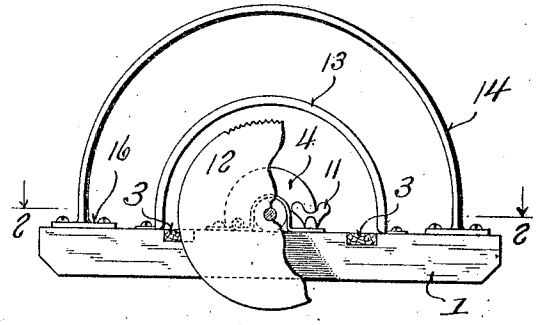


Fig. 2

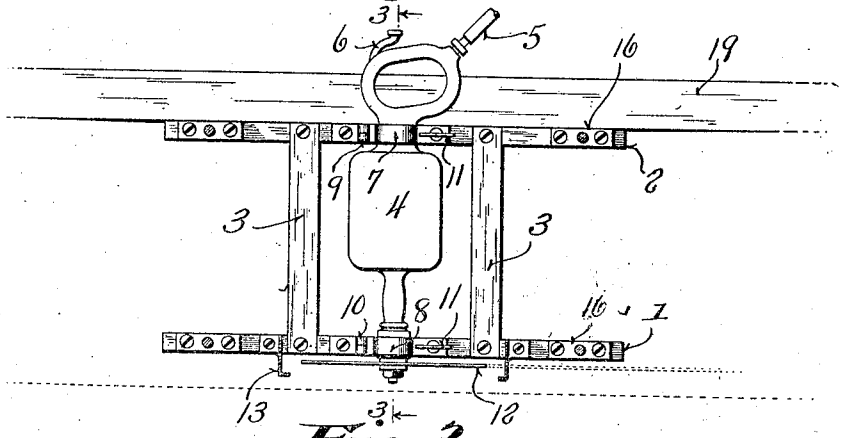
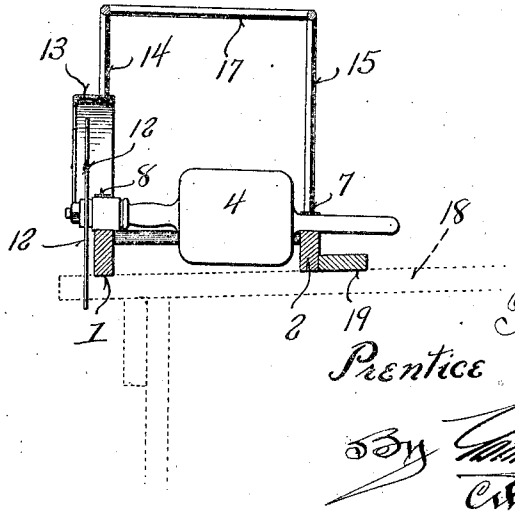


Fig. 3



Witnesses:
R. E. Weber

Inventor:
Prentice Booth

By Clifford & Co
Attorneys

Patented Jan. 26, 1926. 1,570,935

UNITED STATES PATENT OFFICE.

PRENTICE BOOTH, OF NORTH FOND DU LAC, WISCONSIN.

POWER-DRIVEN SAW.

Application filed May 17, 1924. Serial No. 714,029.

To all whom it may concern:

Be it known that I, PRENTICE BOOTH, a citizen of the United States, and resident of North Fond du Lac, in the county of Fond du Lac and State of Wisconsin, have invented certain new and useful Improvements in Power-Driven Saws; and I do hereby declare that the following is a full, clear, and exact description thereof.

This invention relates to power driven saws.

Objects of this invention are to provide a power driven saw which is portable and is particularly adapted to trim the edges of new freight car roofs in shops, for instance, so as to secure a straight vertical marginal face for the roof, and at the same time to rapidly accomplish this desired result.

Further objects are to provide a power driven portable saw which may be easily manipulated, which is of simple and strong construction, which is adapted to saw and sandpaper the edge of a roof, and which is provided with means whereby a straight edge is insured for the cut portion of the roof.

An embodiment of the invention is shown in the accompanying drawings, in which:—

Figure 1 is a front view of the device with parts broken away.

Figure 2 is a sectional view on the line 2—2 of Figure 1.

Figure 3 is a sectional view on the line 3—3 of Figure 2.

The device comprises a frame which includes an outer runner 1 and an inner runner 2. These runners 1 and 2 are joined by means of transverse braces 3 which are preferably mortised or set down into the outer runner, as illustrated in Figure 1, to secure maximum rigidity. A motor of any desired type, such as an electric or air motor is carried by the frame. In the form shown in the drawings, the motor 4 consists of a small compressed air motor supplied by a flexible pipe 5 and controlled by a manually operable valve 6. This motor is secured to the side bars or runners 1 and 2 of the frame by means of clips 7 and 8 which are hingedly mounted, as indicated at 9 and 10, to the runners. These clips are held in place by means of thumb screws 11, as may be seen from Figures 1 and 2. The outwardly projecting shaft of the motor carries a circular saw 12 when it is desired to trim the edge of the roof and is adapted to receive a sand paper disk or burnishing wheel when it is desired to furnish the cut edge.

A semi-circular housing 13 encloses and guards the saw 12 and prevents inadvertent contact therewith. A pair of arched handle bars 14 and 15 are provided with elongated feet 16 which are secured to the side bars or runners 1 and 2, as may be seen from Figures 1 and 2. These handle bars are upwardly arched and form approximately semi-circles, as shown in Figure 1. They are preferably joined at their uppermost portions by a transverse bar 17, as shown in Figure 3, to secure the utmost rigidity for the device.

Although the device, obviously, may be used for other purposes, it is primarily intended for trimming the edges of freight car roofs. A freight car roof is shown in dotted lines and indicated by the reference character 18 (see particularly Figures 2 and 3).

It is to be noted that these roofs slope downwardly and consequently the front or outermost runner 1 is made higher than the rear runner 2. The bottom of these runners are slanting so as to conform to the slanting roof. By this means the axis of the saw is maintained horizontal and the saw is consequently held in a vertical position at all times.

In using the device a guide strip 19 is tacked to the roof and the innermost runner or side bar 2 is held in contact with the outer edge of this guide strip. The operator starts the motor and grasps the handle bars 15, and slides the device along the car roof. It is to be noted that the action of the saw tends to draw the device along the roof and consequently a minimum of effort is required of the operator.

It will be seen, therefore, that a portable, simple type of roof trimming device for freight cars and similar structures has been provided, and that the device may be most easily operated in a simple and effective manner to rapidly trim the overhanging edge of the cars.

Although the invention has been described in considerable detail, it is to be

understood that the invention may be variously embodied and is, therefore, to be limited only as claimed.

I claim:

1. A device for trimming the edges of slanting roofs comprising a frame having an outer runner and an inner runner, said runners being of different heights whereby their upper edges are maintained in a horizontal plane, a motor secured to the upper edges of said runners, and a circular saw directly connected to said motor and positioned outside of said outer runner.

2. A device for trimming the overhanging edge of slanting roofs comprising an outer runner and an inner runner, bracing means joining said runners, an arched handle bar rigidly secured to each of said runners, said handle bars being joined to each other intermediate their ends, a driving motor detachably carried by said runners and having an outwardly projecting driving shaft, and a circular saw carried by said projecting shaft, said handle bars being adapted for manipulating the device without altering the position of the saw relative to the other parts of the device.

In testimony that I claim the foregoing I have hereunto set my hand at North Fond du Lac, in the county of Fond du Lac and State of Wisconsin.

PRENTICE BOOTH.