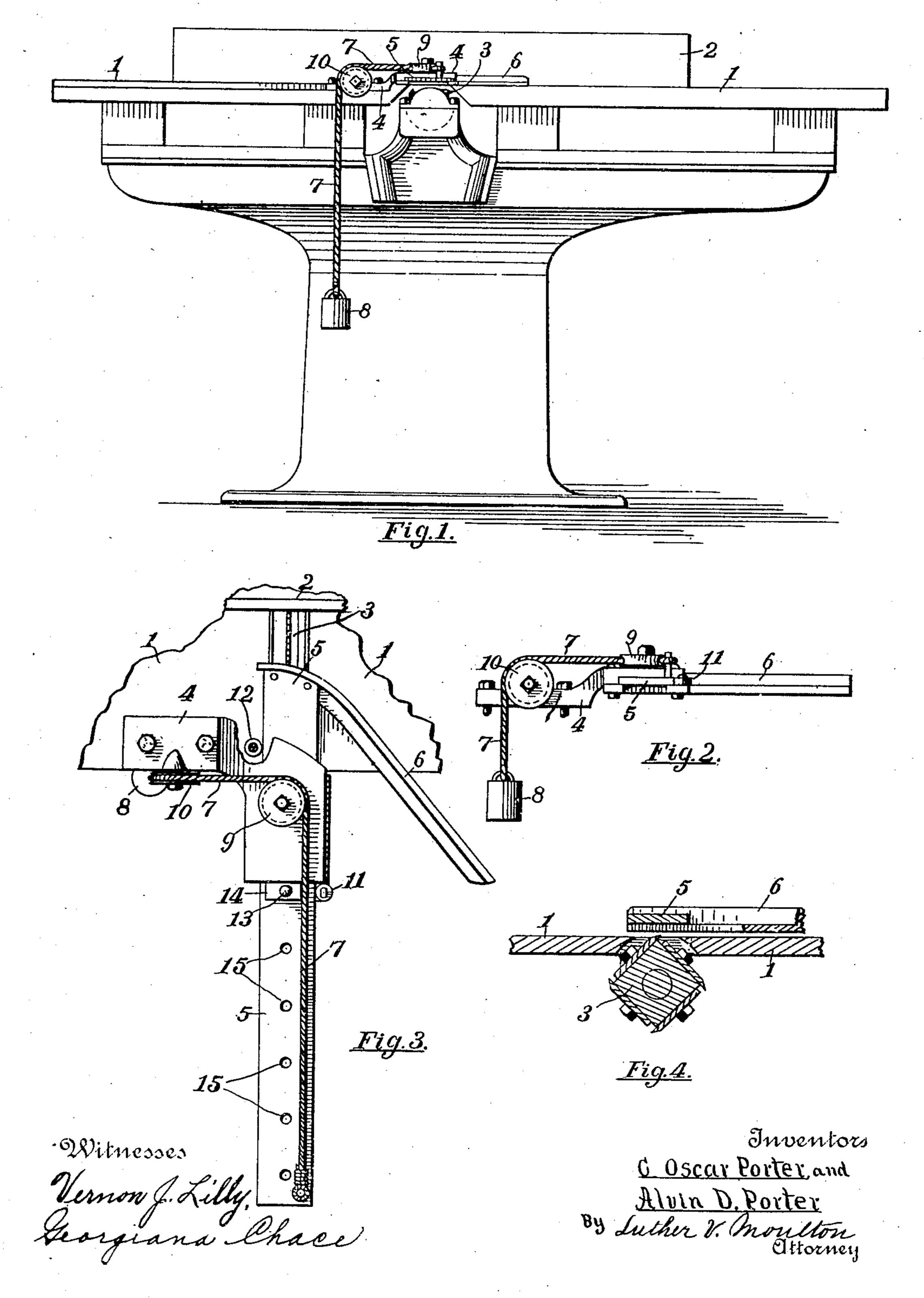
C O. & A. D. PORTER. CUTTER GUARD FOR BUZZ PLANERS. APPLICATION FILED JULY 8, 1907.



THE NOR: IS PETERS CO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

C OSCAR PORTER AND ALVIN D. PORTER, OF GRAND RAPIDS, MICHIGAN.

CUTTER-GUARD FOR BUZZ-PLANERS.

No. 882,122.

Specification of Letters Patent.

Patented March 17, 1908.

Application filed July 8, 1907. Serial No. 382,626.

United States of America, residing at Grand 5 Rapids, in the county of Kent and State of Michigan, have invented certain new and useful Improvements in Cutter-Guards for Buzz-Planers; and we do hereby declare the following to be a full, clear, and exact de-10 scription of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

Our invention relates to improvements in cutter guards for buzz planers; and its ob-15 ject is to provide the same with various new and useful features, hereinafter more fully described and particularly pointed out in the claims, reference being had to the accom-

panying drawings, in which:

Figure 1. is a front elevation of a device embodying our invention; Fig. 2. is a view of our device detached from the machine; Fig. 3. a plan view of our device; and, Fig. 4. a sectional detail of a portion of the same. Like numbers refer to like parts in all of

the figures.

1 represents the bed of the machine upon which the work slides and in which there is a slot or opening through which the knives or 30 cutters project sufficiently to engage the work; 2 is the work guide and 3 the cylinder or cutter of the machine. To the front edge of the table 1 is secured a bracket 4, slidably mounted in which is a flat bar 5, which bar 35 extends parallel with the axis of the cutter and above the same to protect the workman from contact therewith. This bar is provided with an inclined arm 6, which is engaged by the work and the bar thus moved 40 longitudinally to permit the work to pass between the end of the same and the guide 2. The bar is also yieldingly pressed toward the guide by a cord 7 attached to the outer end of the bar and extending over pulleys 9 and 45 10 and having a weight 8 attached thereto.

To prevent the bar from binding in the bracket, friction rollers 11 and 12 are prothe bar and take the thrust of the work 50 against the arm 6, thus insuring the free movement of the bar as the work slides | said apertures. along the inclined surface of said arm. In | 3. The combination with a planer includoperating upon wide or thick work whereby

To all whom it may concern:

Be it known that we, C OSCAR PORTER and ALVIN D. PORTER, both citizens of the the guide the full distance. For this purpose an adjustable stop 14 is mounted on the bar by means of a pin 13 adjustable in a series of holes 15 in the bar. This stop en- 60 gages the end of the bracket and thus prevents the bar from moving inward beyond a

pre-determined distance.

In operation, the end of the work engages the inclined surface of the arm 6 and sliding 65 along the same between the arm and the guide 2 forces the bar back sufficiently to permit the work to pass between the end of the bar and the guide. As the work passes from between the bar and guide, and beyond 70 the cutter, the weight automatically runs the bar inwardly over the cutter, and thus protects the workman from contact therewith, so that at all times the cutter is completely covered either by the work or by this bar, 75 and thus accidental contact therewith on the part of the workman is absolutely prevented.

What we claim is:

1. A cutter guard for buzz planers com- 80 prising a bracket adapted to be attached to the bed of a buzz planer and provided with guiding means, a bar slidable longitudinally of said guiding means, the bar having spaced apertures and provided with 85 a laterally directed inclined arm at its inner end, friction rollers carried by the bracket and between which said bar operates, guide pulleys carried by said bracket, a cable working over said guide pulleys and connected to 90 the bar at the one end and provided with a weight at the other end, and a stop pin insertible interchangeably in the apertures in said bar.

2. In a device of the class described, a 95 bracket formed with spaced guide ways and adapted to be connected to the bed of a planer, a bar having a plurality of spaced apertures and slidable in said guide ways above the cutter elements of the planer, an 100 arm connected to the bar at its inner end and vided which engage the respective edges of | extending at an angle therefrom and toward the feed end of the planer, and a stop pin adapted to be inserted interchangeably in

ing cutter elements and a work guide, of a the end of the bar is spaced apart a consider- | bracket adapted to be attached to the bed of

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the planer and provided with guiding means parallel to the longitudinal plane of the cutter elements and above the same, a bar slidable in said guiding means, an arm attached to said bar at its inner end and extending at an angle therefrom and toward the feed end of the planer, and a stop having means for adjustable connection to said bar.

In testimony whereof we affix our signatures in the presence of two witnesses.

C OSCAR PORTER. ALVIN D. PORTER.

Witnesses:

Palmer A. Jones, Luther V. Moulton.