F. M. COOK.

CLAMP FOR ADJUSTING PLOW WHEELS.

APPLICATION FILED FEB. 11, 1908.

906,693. Patented Dec. 15, 1908.

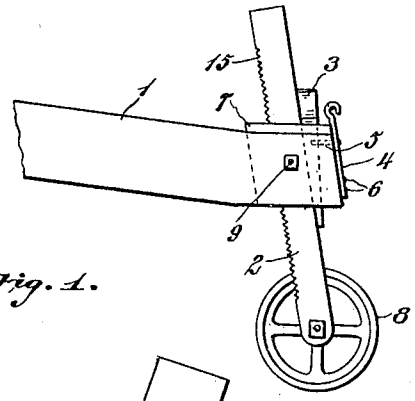


Fig. 1.

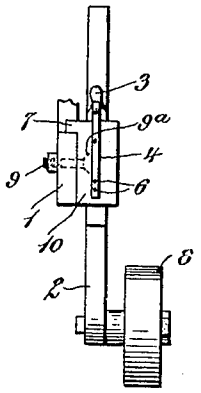


Fig. 2.

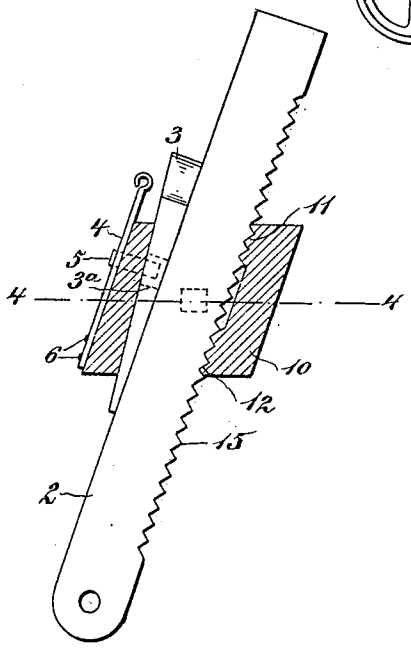


Fig. 3.

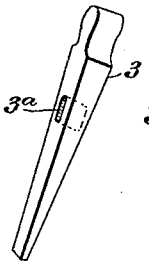


Fig. 5.

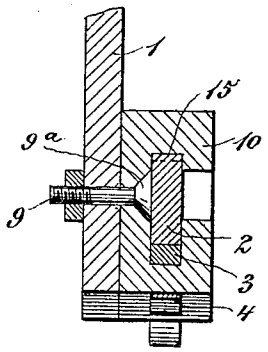


Fig. 4.

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CLAMP FOR ADJUSTING PLOW-WHEELS.

No. 906,693. Specification of Letters Patent. Patented Dec. 15, 1908.

Application filed February 11, 1908. Serial No. 415,332.

To all whom it may concern:

Be it known that I, FRANCIS M. COOK, citizen of the United States, residing at North Dover, in the county of Cuyahoga and State of Ohio, have invented certain new and useful Improvements in Clamps for Adjusting Plow-Wheels, of which the following is a specification.

This invention is a clamp adapted particularly for use on plows for the purpose of fixing a gage wheel at adjustment, and also serviceable for a colter, a tooth, or the like.

The object of the invention is to form an improved clamp which will allow the wheel or other device to be readily raised or lowered, without the use of a wrench or other tool, except perhaps a hammer or some object which can be used to knock out a wedge.

The invention is illustrated in the accompanying drawings, in which—

Figure 1 is a side elevation of the device shown in connection with a gage wheel and a plow beam. Fig. 2 is an end view. Fig. 3 is a detail in vertical longitudinal section. Fig. 4 is a detail in horizontal cross section, on the line 4—4 of Fig. 3. Fig. 5 is a detail in perspective of the wedge.

Referring specifically to the drawings, 1 indicates a plow beam and S a gage wheel mounted on a stub axle at the lower end of a standard or bar 2. This bar extends through a box 10, which is fastened to the side of the plow beam 1 by means of a bolt 9 the head 9^a of which is countersunk in the surface of the central opening or recess through the box, which consists of a casting of sufficient strength to hold the parts together.

The edge of the bar 2 is toothed as indicated at 15, and it is slidable up and down in the opening or recess through the box. The teeth 15 are engageable with corresponding teeth 11 and 12 formed in the corresponding end of said opening, near the top and bottom thereof. The bar is adjustable up and down and when engaged with the teeth in desired position is held as set by means of a wedge 3 driven into the box at the edge of the bar 2 opposite the teeth. The wedge 3 has a hole 3^a therethrough which receives a pin 5 carried by a flat spring 4 fastened to one end of the box by screws 6 or the like. The pin works through a hole in the end of the box and is adapted to snap in the hole 3^a in the wedge and so prevent said wedge from working out. The flat spring 4 is extended to form a handle so that it can be readily taken hold of and bent to retract the pin 5 from the hole in the wedge.

In order to prevent the box from turning on the bolt 9 the box is provided with a flange 7 which projects at the upper inner edge thereof and engages over the upper edge of the beam. This flange supports the backward or turning strain on the gage wheel, incident to its movement along the ground. It also has the same function when the bar 2 is used with a colter.

The desired adjustment of the bar or standard 2 in the box can be readily effected by retracting the pin from the wedge and knocking out the wedge. This allows the bar to be moved up or down to the place desired, after which the wedge is inserted again. No wrench or special tool is needed. This is a decided advantage and will often save a trip from a field to the barn or house when it becomes necessary to readjust the parts.

I claim:

The combination with a beam, of a box having a vertical recess therethrough and open on one side of said recess and having an outwardly projecting flange on the opposite side, a bolt extending through said opposite side of the box and the beam and having a head countersunk adjacent to said recess, and a standard extending through the recess and fixed therein, covering the head of the bolt.

In testimony whereof I affix my signature, in presence of two witnesses.

FRANCIS M. COOK.

Witnesses:

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MONROE E. MILLER.