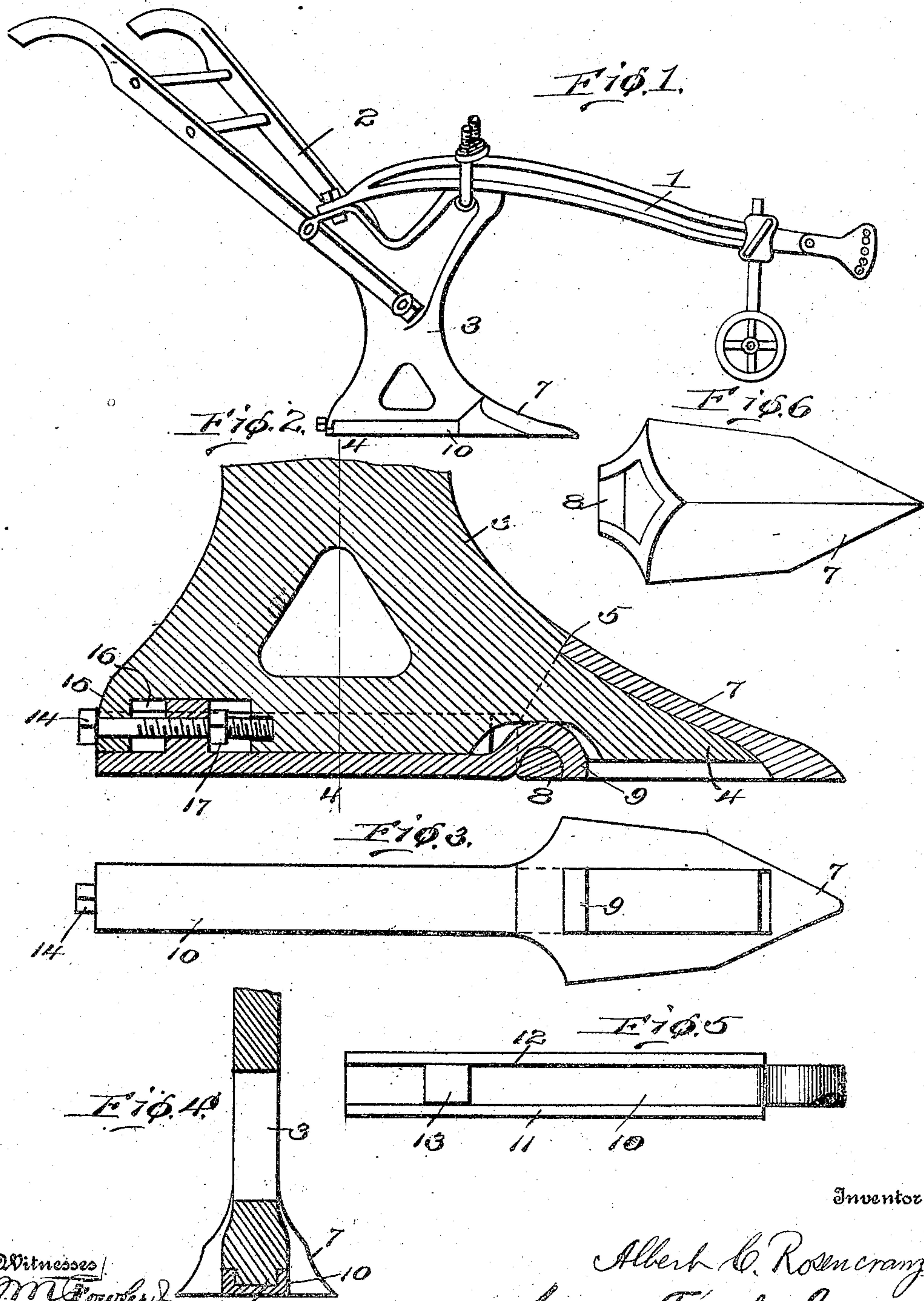


A. C. ROSENCRANZ.
 PLOW.
 APPLICATION FILED JAN. 15, 1909.

924,583.

Patented June 8, 1909.



Inventor

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Witnesses

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UNITED STATES PATENT OFFICE.

ALBERT C. ROSENCRANZ, OF EVANSVILLE, INDIANA, ASSIGNOR TO THE VULCAN PLOW COMPANY, A CORPORATION OF INDIANA.

PLOW.

No. 924,583.

Specification of Letters Patent.

Patented June 8, 1909.

Application filed January 15, 1909. Serial No. 472,469.

To all whom it may concern:

Be it known that I, ALBERT C. ROSENCRANZ, a citizen of the United States, residing at Evansville, in the county of Vanderburg and State of Indiana, have invented certain new and useful Improvements in Plows; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to improvements in plows, and particularly to improvements in fastening points on a sub-soil plow, and has for an object the construction of a plow with a strong point that may be readily and quickly removed and again replaced, together with means for holding the point in position that will not readily get out of order.

A further object of the invention is the production of a plow having a strong and rigid standard with a removable point held in place by a single securing means.

With these and other objects in view, the invention comprises certain novel constructions, combinations, and arrangements of parts as will be hereinafter more fully described and claimed.

In the drawings: Figure 1 is a side elevation of a plow embodying the present invention. Fig. 2 is an enlarged, detail, longitudinal, vertical section through the standard and point. Fig. 3 is a bottom plan view of the structure shown in Fig. 2. Fig. 4 is a section through Fig. 2 on line 4—4. Fig. 5 is a top plan view of the point securing means removed. Fig. 6 is a top plan of the point removed.

In the construction of a plow embodying the features of this invention, a beam of any kind is used and handles of any kind may be used having connected therewith a standard to which is secured a removable point which is slipped over the point or nose of the standard and is held in position by a hook-shaped projection on a landside bar engaging the same. The landside bar in turn is held in position, preferably by a single bolt, so that the point may be said to be held in place by a single securing means, as the moment the bolt is removed the point and the landside that engages the same can be disengaged from the standard.

In order that the invention may be more

clearly understood, an embodiment of the same is shown in the accompanying drawings, in which—

1 indicates the beam and 2 the guiding handles: To the beam 1, and the handles 2 the standard 3, preferably of one piece, is connected. The standard 3 is formed with a reduced point 4 having an offset 5 and also a reduced portion 6 extending longitudinally of the base. The reduced point 4 is designed to fit into a removable point 7 which point engages the shoulder portion 5 and forms a continuous surface from the extreme point of point 7 to the standard 3. The point 7 is formed substantially hollow, as more clearly seen in Fig. 6, and is formed with a cross bar or member 8 over which a hook 9 is adapted to pass when assembling the point upon the standard 3. The hook 9 extends from landside 10 and is preferably formed integral therewith, as shown in Fig. 2. Landside 10 is formed with flanges 11 and 12 that partially encircle the reduced portion 6 of standard 3, and by such encircling the landside bar is guided in its reciprocatory movement when pulling point 7 into position. The landside 10 is also formed with a projecting lug 13 that has passing there-through an opening for receiving a bolt 14. Bolt 14 also passes through a lug or extension 15 of standard 3, and the lug or extension 13 operates or reciprocates in a hollowed-out portion 16 of standard 3.

In assembling the device, all that is necessary is to slip the point 7 on the nose or point 4 of the standard, and then insert the hook 9 in the landside bar 10. The hook 9 will partially encircle cross-bar 8 and the sides 11 and 12 will engage the reduced portion 6 and thereby form means by which the bar is guided in its movement. The point 7 is forced as far as possible on the reduced point 4, and landside bar 10 is moved backward from the point as far as possible and then the bolt 14 inserted. The bolt after insertion is turned until the point is securely in position on the standard.

What I claim is:

1. In a plow, a standard, a removable point, a landside having a hook on one end, said hook connecting with said removable point, and means for securing the said landside for holding the landside and removable point in position.

2. In a plow, a standard having a reduced

point, a removable point positioned on said reduced point of said standard, a landside removably secured to said removable point for holding the same in position, a bolt connected with said standard for sliding said landside away from the reduced point of said standard whereby tension is brought on said removable point for firmly holding the same on the reduced point of said standard.

10 3. In a plow, a standard having a reduced point, a removable point adapted to engage said reduced point, said removable point being formed hollow for the purpose of surrounding the said reduced point of the said standard, a landside having an upstanding hook at one end, the said upstanding hook engaging with the said removable point, and means for securing the said landside to said standard.

20 4. In a plow, a standard formed with a reduced point, a hollow removable point adapted to fit over said reduced point of said standard, a landside formed with a hook-shaped end, said hook-shaped end engaging with said hollow removable point and clamping means arranged at the rear of said standard for clamping said hook-shaped end of the said landside to the said standard whereby the said removable point will be rigidly held on said standard.

30 5. In a plow, a standard provided with a reduced point and a cavity formed in the

bottom portion thereof, a hollow removable point adapted to fit over the reduced point of said standard, said removable point being formed with a cross bar, a landside engaging the bottom of said standard, said landside being formed with a projecting lug and a hook-shaped end, the said projecting lug movably mounted within said cavity, and said hook-shaped end engaging the cross bar on the said removable point, and an adjustable securing member passing through said lug for clamping said landside on said standard, and for causing said standard to hold said removable point rigidly on said reduced point of said standard.

6. In a plow, a standard provided with a reduced point, a removable point having a cross bar positioned on its rear end, a landside mounted on the bottom of said standard and formed with a hook-shaped portion for engaging the said cross bar of said removable point and a screw bolt for causing tension to be exerted on said removable point and said landside whereby the said removable point and said landside are made to rigidly engage the said standard.

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

ALBERT C. ROSENCRANZ.

Witnesses:

A. R. MESSICK,

H. B. KINCHEL.