

No. 740,373.

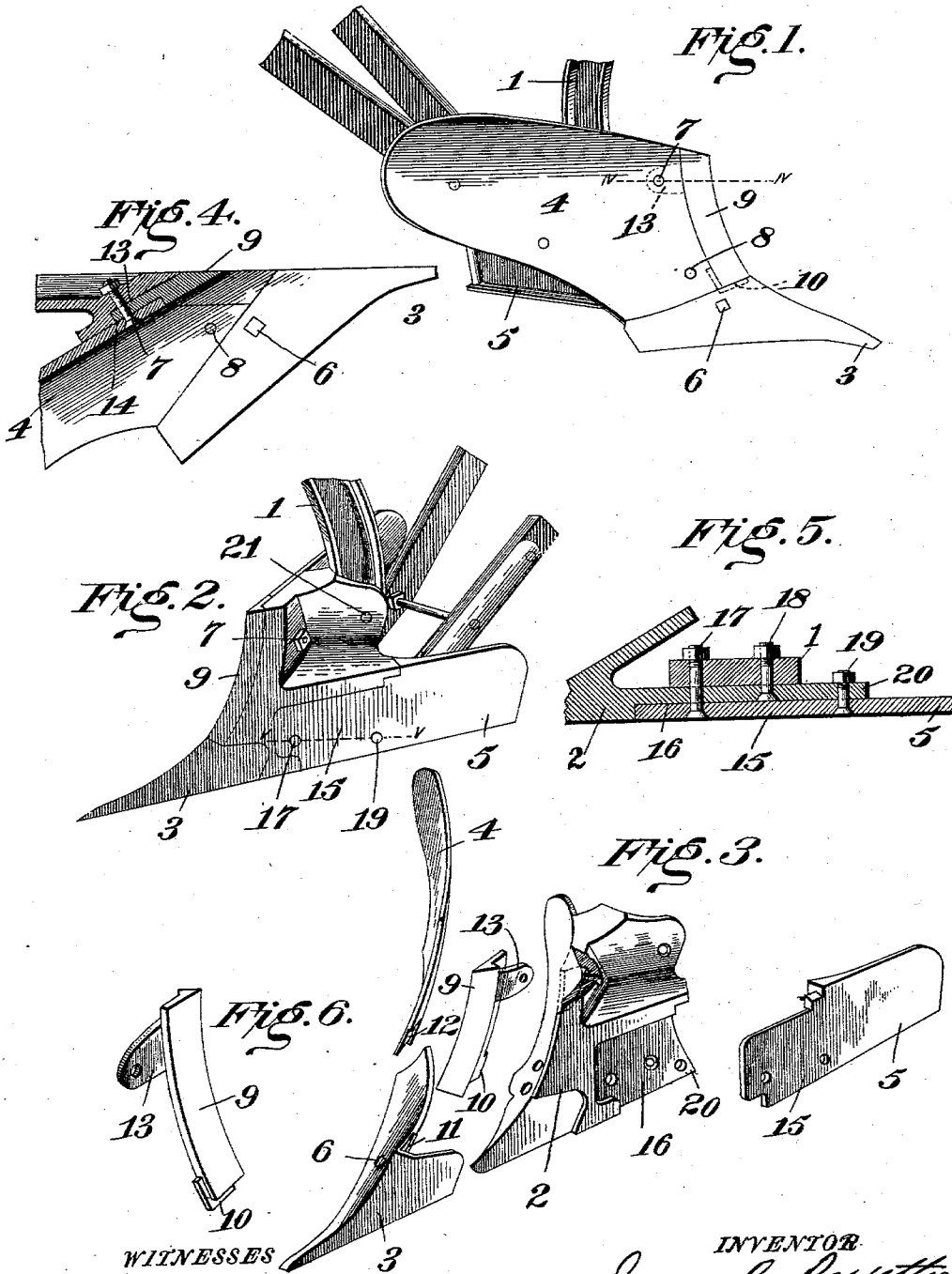
PATENTED SEPT. 29, 1903.

J. R. ROSSETTER.

PLOW.

APPLICATION FILED DEC. 31, 1902.

NO MODEL.



WITNESSES
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UNITED STATES PATENT OFFICE.

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PLOW.

SPECIFICATION forming part of Letters Patent No. 740,373, dated September 29, 1903.

Application filed December 31, 1902. Serial No. 137,306. (No model.)

To all whom it may concern:

Be it known that I, JAMES R. ROSSETTER, a citizen of the United States, residing at Clarksville, in the county of Montgomery and State of Tennessee, 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 ordinary turning-plows, and particularly to that type in which the operative parts—that is, the plowshare, colter, moldboard, and landside—are fitted and fastened to a “saddle” or standard having the general form of the plow. An example of such a plow is illustrated and described in my United States Letters Patent No. 644,099, dated February 27, 1900, and my present invention is an improvement on the same.

The objects of the invention are to simplify, strengthen, and improve the plow as a whole, to provide a convenient and efficient removable “shin” or colter, and to render certain parts, including said shin, detachable without the necessity of loosening or removing adjacent parts, as in the case of many implements of prior construction. These objects are attained by means substantially as illustrated in the accompanying drawings, which are to be taken as a part of this specification, and in which—

Figure 1 is a perspective view of a plow embodying my improvements looking at the moldboard side thereof. Fig. 2 is a perspective view of the same looking at the landside side. Fig. 3 is a perspective view of the saddle, plowshare, shin or colter, moldboard, and landside all detached. Fig. 4 is a horizontal section on line IV IV of Fig. 1. Fig. 5 is a horizontal section on line V V of Fig. 2, and Fig. 6 is an enlarged perspective view of the removable shin or colter.

The plow illustrated is of the same general construction as that illustrated and described in my aforesaid Letters Patent.

The symbol 1 denotes the standard or lower part of the plow-beam; 2, the saddle secured to the beam and having the several operative

parts fitted and fastened thereon; 3, the plowshare; 4, the moldboard, and 5 the landside.

As shown, the plowshare is fitted over the point of the saddle and secured rigidly in place by a bolt 6, while the moldboard rests on the sloping earth side of the saddle and is fastened thereto by two bolts 7 and 8. These features of construction are old and may of course be changed. It will be noted that the front edge of the moldboard does not come to the front of the saddle.

The numeral 9 denotes my improved removable shin or colter, which fits on the upper front of the saddle between the front edge of the moldboard and upper front edge of the plowshare, thus taking the place of the rib or fin extending upward from the plowshare along the front edge of the saddle in the plow disclosed in my aforesaid Letters Patent. This shin consists of an elongated metal piece having a sharp front edge and a back longitudinal groove or rabbet which fits over the front edge of the saddle. It will be observed that the shin is wedge-shaped or triangular in cross-section and is shaped to correspond on its earth side with the curvature of the moldboard and on its landside with the flat face of the saddle, being flush with both when fitted in place. At its lower end said shin has a lug or projection 10 along its rear edge as well as its lower extremity and which fits in a recess 11 therefor on the under side of the plowshare and also in a recess 12 on the under side of the moldboard. At its upper end it has a rearwardly-projecting lug or tenon 13, which enters an open-ended recess or mortise 14 at the front of the saddle and on the earth side thereof or beneath the moldboard, being secured therein by the bolt 7, which holds the moldboard to the saddle. By this construction the shin can be removed without removing the moldboard merely by taking out the bolt 7 and withdrawing the tenon from its open-ended recess or mortise. This is a great advantage over those constructions in which the shin has a projection fitting in a socket or recess in the face of the saddle, but not extending clear to the front, thus necessitating the

loosening and removal or partial removal of the moldboard before the tenon can be withdrawn.

The landside, as shown, has a front portion 15, adapted to fit in a recess or depression 16 in the land-face of saddle, said part 15 and recess 16 being so formed as to hold the landside securely and rigidly, taking all strain off the fastening-bolts, as in the plow disclosed in my aforesaid Letters Patent. In said patented implement the lower end of the plow beam or standard and the landside were both secured to the saddle by the same two bolts entered through all three parts. In the present implement the lower end of the plow-beam is secured in the back angle of the saddle by a bolt 17, entered through the saddle and front end of the landside, and by a blind bolt 18, entered only through the saddle, while the landside is fastened in place by said bolt 17 and another bolt 19 inserted through a heel or extension 20 of the saddle. The standard is also secured to the upper part of the saddle by a bolt 21, as in the patented plow. By this construction the landside can be detached without removing the beam, which will be held in place by the bolts 18 and 21, while the beam can be removed without disturbing the landside, which will be held by the bolt 19.

Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent of the United States, is—

1. In a plow, a saddle having a narrow front edge, and a plowshare and moldboard fitted and secured thereon in proper relation, the front edge of the moldboard not extending to the front of the saddle, and a removable shin or colter fitted on the upper front edge of the saddle, between the front edge of the moldboard and upper edge of the share, said shin consisting of an elongated piece having a sharp front cutting edge and a back longitudinal groove or rabbet fitting on the front edge of the saddle, and having at its lower end a lug or projection fitting in a recess therefor on the under side of the moldboard and also in a recess on the under side of the

plowshare, and having at its upper end a tenon projecting rearward into an open-ended recess or mortise in the front of the saddle directly beneath the moldboard, and a fastening for securing said tenon in place, substantially as described. 50

2. In a plow, a saddle having a narrow front edge, and a plowshare and moldboard fitted and secured thereon in proper relation, and a removable shin or colter fitted on the upper front edge of said saddle and having a rearwardly-projecting tenon entered into an open-ended recess in the side and at the front of the saddle directly beneath the moldboard, and a transverse fastening-bolt entered through said moldboard, tenon and saddle, substantially as described. 60 65

3. In a plow, a saddle for the operative parts having a recess in its vertical face to receive the front of the landside, and a plow beam or standard at the back of said saddle secured thereto by a bolt entered through the upper part of the saddle and two bolts entered through the lower recessed part of the saddle, only one of the latter bolts also fastening the landside and the other being a blind bolt, and an additional fastening-bolt for the landside entered through a rearward heel of the saddle, all substantially as and for the purpose described. 70 75

4. The removable shin or colter herein shown and described consisting of the elongated piece 9 having a sharp front cutting edge and a back longitudinal groove or rabbet to fit on the front of a saddle, a lug 10 at its lower end and lower rear side adapted to fit both under a moldboard and under a plowshare, and a rearwardly-projecting apertured tenon 13 adapted to fit in an open-ended recess in the plow-saddle directly under the moldboard. 80 85

In testimony whereof I affix my signature in presence of two witnesses. 90

JAMES R. ROSSETTER.

Witnesses:

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WESLEY DRAM.