C. E. BOGLE.

PLOW.

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1,107,482.

Patented Aug. 18, 1914.

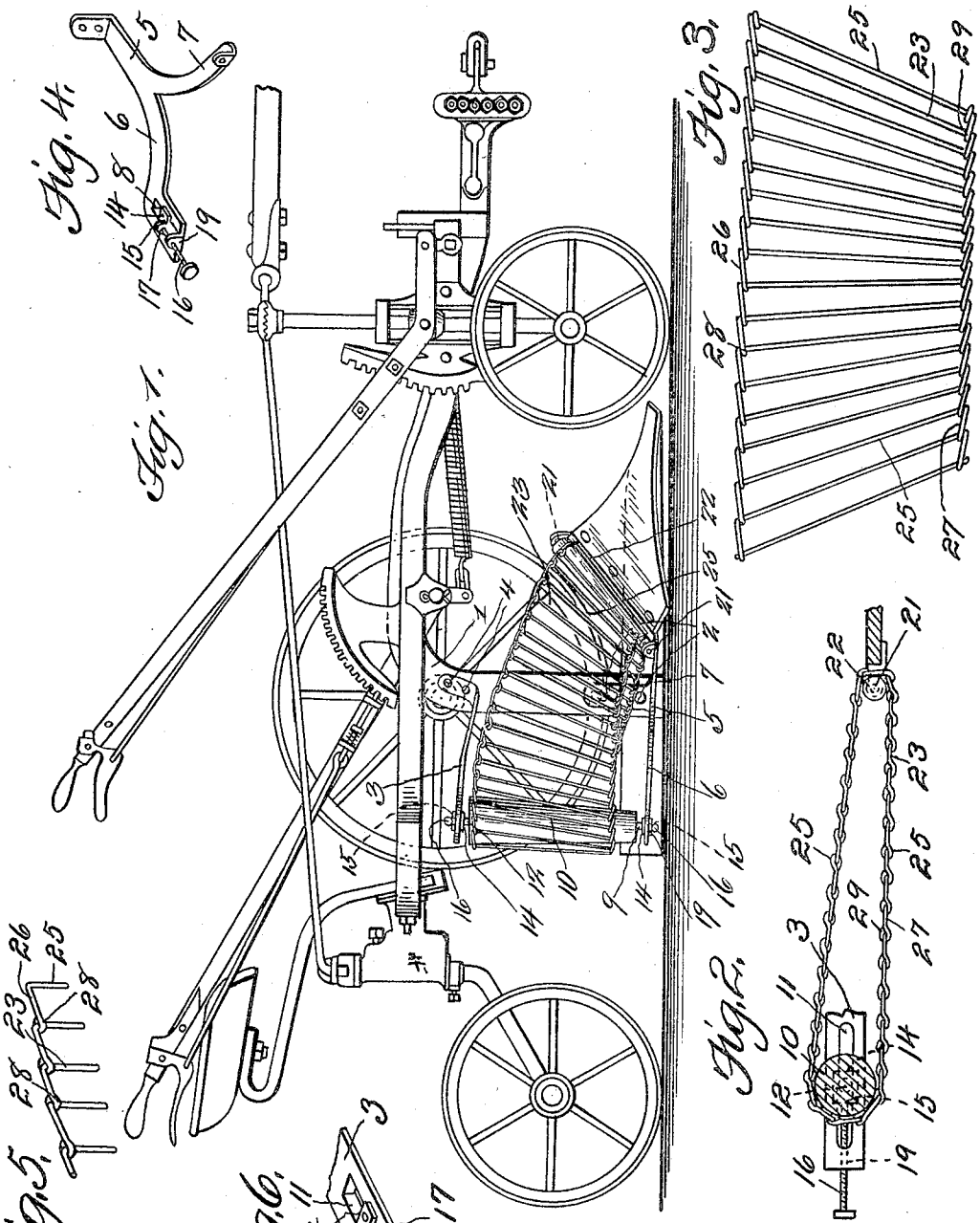


Fig. 1.

Fig. 4.

Fig. 3.

Fig. 2.

Fig. 5.

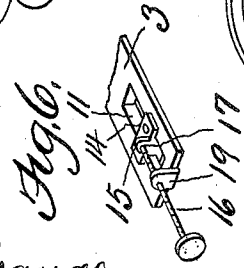


Fig. 6.

Witnesses

Marked de Grange

Frances E. Boswell

Inventor

C. E. Bogle

By D. Swift & Co.,

Their Attorneys

UNITED STATES PATENT OFFICE.

CURTIS E. BOGLE, OF UNION, IOWA.

PLOW.

1,107,482. Specification of Letters Patent. Patented Aug. 18, 1914.

Application filed August 18, 1913. Serial No. 785,340.

To all whom it may concern:

Be it known that I, CURTIS E. BOGLE, a citizen of the United States, residing at Union, in the county of Hardin and State of Iowa, have invented a new and useful Plow; 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 plows, and more particularly to a new and useful improved revolving mold board for facilitating the work of plowing any soil, particularly in gumbo soil.

An object of the invention is the provision of a revoluble mold board, which comprises an endless link belt including a plurality of rods, adapted for traveling rearwardly from the plow share so as to carry the earth backwardly and to one side of the plow, and in so doing the earth becomes thoroughly broken and loose, some of it dropping through the revoluble mold board or belt.

In practical fields the details of construction may necessitate alterations, to which the patentee is entitled, provided the alterations fall within the scope of what is claimed.

The invention comprises further features and combination of parts, as hereinafter set forth, shown in the drawings and claimed.

In the drawings:—Figure 1 is a view showing the application of the improved revoluble mold board to a plow and constructed in accordance with the invention. Fig. 2 is an enlarged sectional view through the revoluble mold board. Fig. 3 is an enlarged detail view of the revoluble mold board removed. Fig. 4 is a detail view of the bracket 5. Fig. 5 is a detail view of the portion of the revoluble mold board. Fig. 6 is a detail view of the bracket 3.

Referring more particularly to the drawings, 1 designates the plow beam, which may be either a part of a gang plow or part of a hand plow. This plow beam is connected at 2 to the land side of the plow plate. A bracket 3 secured at 4 to the plow beam projects laterally therefrom above the mold board. Secured to the lower portion of the plow beam, also at 2 is a bracket 5, which comprises branching arms 6 and 7. The branching arm 6 is provided with a slot 8, in which the pintle 9 of the lower tapered end of the roller 10 is mounted, while the bracket 3 is likewise constructed with a slot 11 to receive the pintle 12 of the large end of the roller 10. The pintles 9 and 12 are mounted also in blocks 14, which are provided with lugs 15, in which screws 16 are mounted as at 17, so as to rotate therein but carried thereby. These screws 16 are threaded in the angled end 19 at the extremities of the bracket 3 and the arm 6, and by means of these screws one end or the other of the roller 10 may be adjusted.

Journaled in bearings of the arm 7 and the land side of the plow are the pintles 21 of the roller 22, which tapers from the land side of the plow outwardly. This roller 22 is arranged on an inclination, and traveling about the roller 22 and about the roller 10 is an endless revoluble mold board 23. This mold board comprises a plurality of metallic rods 25, the ends of which are bent at angles forming the arms 26 and 27, which terminate in eye loops 28 and 29, which connect the adjacent rods of the revoluble mold board, just at the junction where the arms 26 and 27 are bent at right angles to the rods. The arms 26 are longer than the arms 27, thereby providing an endless revoluble mold board or belt, the length of which at one side edge is greater than the length of the other side edge. In this manner the revoluble mold board may evenly pass about the rollers, which are tapered, and which tapering end of both the rollers are arranged closer together than the larger ends of said rollers, thereby providing a revoluble mold board, so arranged and constructed, that the earth may be easily turned, and at the same time permit the earth to be thoroughly broken and sifted between the rods. Other suitable ways of connecting said rods may be used, so that one edge of the belt or revoluble mold board is greater than the other edge in length. By the provision of this improved revoluble mold board, the turning surface of the mold board is kept secured, in which manner the earth is prevented from adhering to the mold board.

The invention having been set forth, what is claimed as new and useful is:—

In combination with a plow beam having a plow, of a bracket secured to the plow beam above and in the rear of the plow, a second bracket secured to the lower end of the plow beam comprising a pair of branching arms, one extending parallel and alined with the first bracket, while the other ex-

tends outwardly and forwardly and connects to the mold board of the plow, a roller journaled in bearings of the branching arm connected to the mold board and of the land side, a second roller having bearing members adjustably mounted in the other branching arms and the first bracket, and a revolving mold board passing about said rollers, and means whereby one or the other of said bearing members of the second roller may be adjusted toward and from the plow beam.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

CURTIS E. BOGLE.

Witnesses:
H. T. HOLLINGSWORTH,
JOHN THOMPSON.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."