(12) **United States Patent**
Wiard

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(54) **PLOUGH**

(76) Inventor: **William Wiard**

William Ward

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The Schedule referred to in these Letters Patent, & making part of the same, containing a description in the words of the said William Ward himself of his improvement in the Plough.

My improvement consists in the mode of putting on the edge in the plan of locking in the main land side & the mould board in the mode of attaching an additional piece to the lower portion of the land side in placing a whole thimble in the main land side immediately behind the standle & directly opposite the half thimble on the mould board into which a round is secured, & lastly in the manner in which the standard is constructed & situated.

My Plough is constructed of four different pieces viz. the mould board, land side, edge, & the piece which is locked on the lower portion of the land side to be hereafter described.

First The mould board differs from the one in common use in the following particulars. The edge is put on entirely different from the manner in which it has hitherto been done in the common plough. this piece is screwed on which renders it troublesome to put it on & take it off as occasion requires, the edge is placed on my plough by means of a loop which is passed thro' ..... a corresponding mortice in the mould board. this loop after having passed through the mould board & wood-work is driven which secures it on its place & renders it extremely easy to put on & remove at pleasure. in the edge are two dowels or knobs that are inserted into two small round communications excavations in the mould board which they exactly fill— 2dly The short land side differs from the common one in the manner in which the main land side is attached to it— in its receiving in its lower extremity one additional

piece to be hereafter described & in its being connected in a peculiar manner with the Mandrel which consists upon this shaft, viz. namely of the same [main] head with it made to project through the beam, & the mould board [has] a mortise just behind the handle Sufficiently above the lower [edge] into which the extremity of the shaft is inserted, this [key] thimble is for the reception of one extremity of the above mentioned [shaft] pin, this pin cannot be removed until the Mandrel which is attached to the mould board is taken off, & [then] the piece of the thimble which is [fixed] in pall represent. — Next we [come] to the principal parts of difference in my plough from all others it regards the mould board. Second the main land side this we [find] in which this differs [from] all others, namely. 1st the manner in which it is connected to the next land side of the mould board, which is done in the following manner, the extremity is received into an excavation formed by the projection of the [front] of the next land side & the angle formed by the connection of the mould board with the next land side, in addition to this acting [surface] formed by the projection of the lower part of the next land side, it has three others namely two, that are received into its extremity from the next land side and the main land side also called upon as laps over an other [part] or piece of the next land side about two inches & a half above the last mentioned, in addition to these three connections the main land side has a projecting extremity or dovetail received into the next land side & confined above the last mentioned connection or laying piece of the main land side — From the mould board about three inches from the extremity of the main land side there projects as in all ploughs a small knob which helps to preserve the extremity of the piece now

described in the place. Before the outside of the main board side B is at the lower part of it placed an additional piece of nearly the same length, so as to cover the whole lower part of the mould board. This piece is connected to the main board side by two loops which pass through the wooden keys and pinned thro' them to preserve the connection. This piece is about two inches & a half or three inches in breadth & about half an inch in thickness. This piece receives nearly all if not quite all of the wear which takes place in the side of the plough, on the land side — & just behind the mould is the handle above mentioned. Directly opposite to the handle also above-mentioned between which the mould board is placed which keeps the mould board & the main board at the proper distance apart. — The share board will have to be drawn back as far as the back, placed about four inches. Instead of the loops mentioning in the specification above for the handles of the plough common iron staples may be used.

In testimony that the above is a true description or specification of my above mentioned improvement I have hereunto set my hand this 27th day of Dec. A. D. 1827

Witnesses
Thos. Copel.....d
D. A. Watts

William Nicholas

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(913 words)