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Sidney Lewis

Sidneys Patent. May 27th 1818.

The Schedule referred to in these Letters Patent and making part of the same containing a description in the words of the said Sidney Lewis himself of his improvement in the Plough.

My Improvements consists 1st in the plough is made entirely of wrought iron except the mould plate which is made of cast iron and the handles or part which the ploughman takes hold of, they are made of wood.

2d This plough is made of sufficient strength without being cumbersome and heavy, chiefly in consequence of the beam being made of two pieces, from the principal one being about 3 inches deep of inch thick near the middle or largest part, and tapered to a proper size at each end. The other part or piece is from 5/8 to 3/4 of an inch in thickness and about 12 inch in width from end to end.

These two parts are joined together with about 6 screw bolts passing through the brace and beam, with 4 or 5 thimbles or regulators to keep them in their proper places. The brace near the middle is about 3 or 4 inches distant from the beam, with a coulter mortice attached to the brace on the inside. This mode of placing the coulter with its top leaning over the land has a tendency to detach the furrow with more ease, and throw it from the land side; this with the manner of fastening it hereafter to be described, I deem a singular advantage over the common mode.

4th The coulter is fastened by means of an iron rod, with a broad hook, which catches on the shank of it, near to the brace; and passing through a thimble attached to the shank with a thumb screw. One advantage of this is that it keeps the coulter perfectly steady, without wedging except only at the side.

3d I use a chain or rod, passing from the main bolt in the beam, to the end of the mould, or near the top of the right hand shift. This answers two good purposes. It braces the shift and bears the line off, and not to be caught under the furrow.

6th I make use of a bow, passing between the shifts at about 9 or 10 inches from the top or mould, and attached to the upper corner in the middle by a rivet:

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7. The share is made pretty much in the usual form, but without a socket, in lieu of which, I cut through the plate, and turn up an ear, about 3/8 of an inch high, which coming against the side of the sheath, keeps it equally steady as if there were a socket.

8. The mould plate is attached to its shift, by two or more screw bolts one to the brace which passes from the sheath near the share to the main bolt by the side of the coulter mortice by one screw bolt near the sheath,

9. I place my false coulter between the mould plate and the brace which also assists in keeping the plough clean.

10. I fix my cleavis in such a manner, as to be able to give the plough more or less depth of land.

11. The off hand or land shift is fastened to the beam by two or more screw bolts, by which the land of the plough is regulated

12. Though I have here given certain proportions, yet these may be varied to suit the fancy of the farmer, without materially altering the principle of my improvements.

Witness
Wm Yeates
Mr Elliot

Edeon Davis

Dublin

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