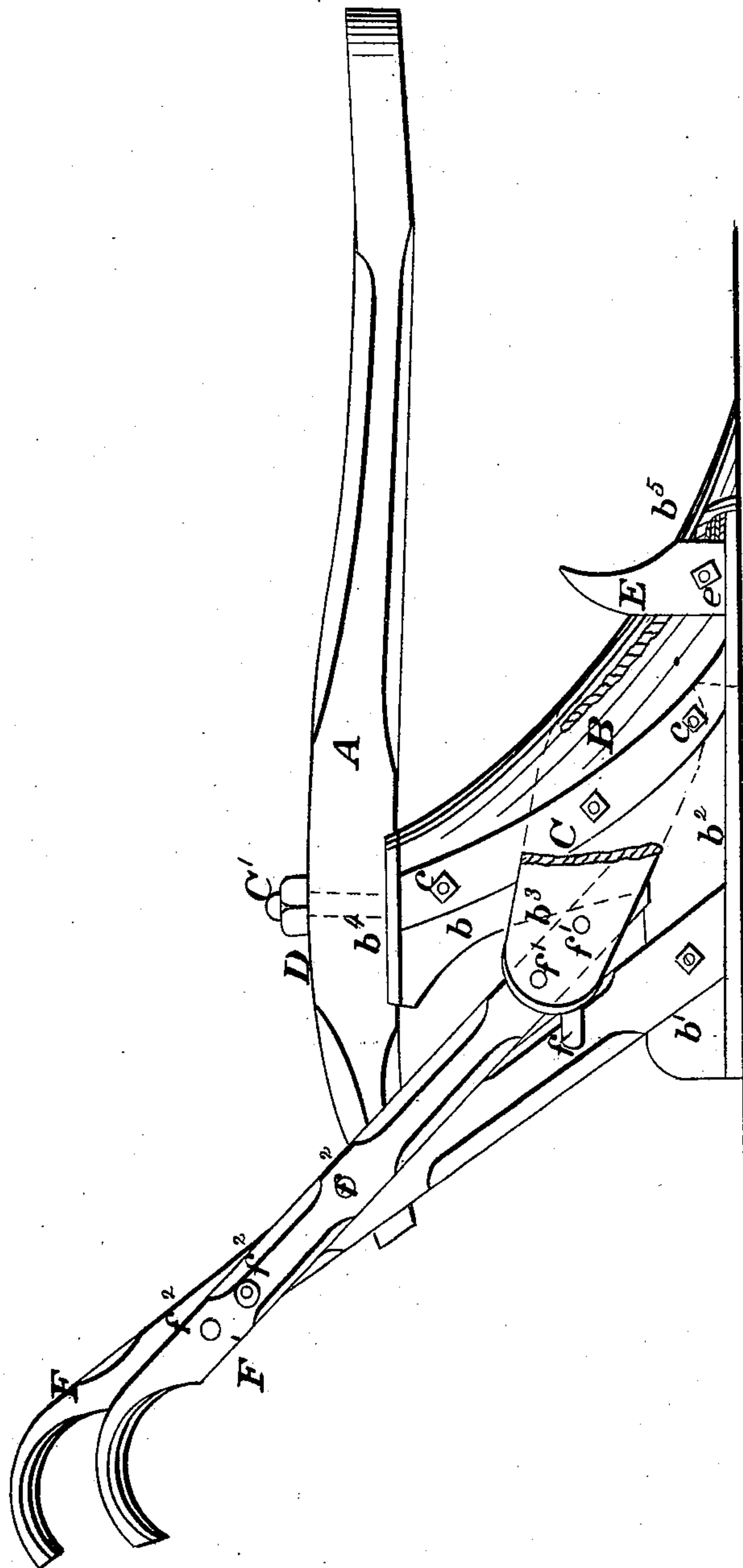


C. WILKIN.

Plow.

No. 76,681.

Patented April 14, 1868.



Witnesses:

J. H. M. Bowen
Wm. H. Brereton

Inventor:

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United States Patent Office.

CORNELIUS WILKIN, OF DUNDAS, ILLINOIS.

Letters Patent No. 76,681, dated April 14, 1868.

IMPROVEMENT IN PLOUGHS.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, CORNELIUS WILKIN, of Dundas, in the county of Richland, and State of Illinois, have invented a new and useful Improvement in Ploughs; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawing, which is made a part of this specification.

My improvements relate to that class of breaking or cultivating-ploughs in which the mould-board, land-side, and standard are all in one piece, swaged from a single plate or sheet of steel or wrought iron. They consist in the employment of a strong iron bar, secured by bolts or rivets, and extending from the sole of the land-side to the top of the standard, for the purpose of strengthening the standard, said bar also forming the bolt by which the plough is fastened to the beam; also, in attaching the coulter by passing it through a hole formed in the breast of the plough, and securing it by a bolt or bolts on the inside.

The drawing represents an elevation of a plough, with my improvements applied, the mould-board being partly broken away to expose the interior.

A may represent the beam, and B the plough proper, which latter consists of a standard, *b*, land-side bar *b*¹, sole-plate *b*², and mould-board *b*³, all in one piece, either cast, or cut and swaged from a single plate or sheet of steel.

C is a strong bar, of wrought iron or other suitable metal, united to the standard *b* by bolts or rivets, *c*, having countersunk heads on the outside. This bar is formed, on its upper end, with a threaded portion or bolt, *c*¹, of smaller diameter than the bar proper, which portion extends through the flange *b*⁴ and beam A, and, if necessary, through a metallic plate or washer on top of the beam, where it is secured by a screw-nut, D.

E is a coulter, secured in the breast of the plough by its lower end being passed through the hole *b*⁵, and fastened by a bolt or rivet, *e*, the head of which, like the one, *c*, is countersunk on the outside.

F F are handles, attached respectively, by bolts, *f f*¹, to the land-side bar *b*¹ and mould-board *b*³; also to the beam A, and braced by cross-bars *f*².

Instead of the screw-thread on the portion *c*¹ of the bar C, it may be slotted, for the reception of a key or wedge by which to secure it.

Steel ploughs are superior to any other, on account of their extreme lightness and easy draught; but, prior to my invention, they have been objectionable, on account of the weakness of the standard, and the difficulty of attaching the coulter strongly, without impairing the surface of or weakening the land-side. The object of my invention is to remove these objections, by the use of my strengthening-bar, the standard being made sufficiently strong for any use, and my manner of attaching the coulter, holding it as rigidly and strongly as any of the attachments now known, without impairing, in the least, the strength or surface of any of the parts.

Having thus described my invention, what I claim as new therein, and desire to secure by Letters Patent, is—

1. In combination with the standard *b* of a steel or other similar plough, I claim the bar C, secured to said standard by bolts or rivets, *c*, and having a threaded or slotted portion, *c*¹, for uniting said standard to the beam, substantially as described.

2. Securing the coulter E by passing it through an opening, *b*⁵, in the breast of the plough, and fastening it with a bolt or rivet, *e*, on the inside, substantially as and for the purposes specified.

To the above specification of my improvement in ploughs, I have signed my hand, this 4th day of February, A. D. 1868.

CORNELIUS WILKIN.

Witnesses:

F. D. PRESTON,

R. B. OVERTON.