C. URIE.

Improvement in Plows.

No. 130,773. Patented Aug. 20, 1872.

Fig. 1.

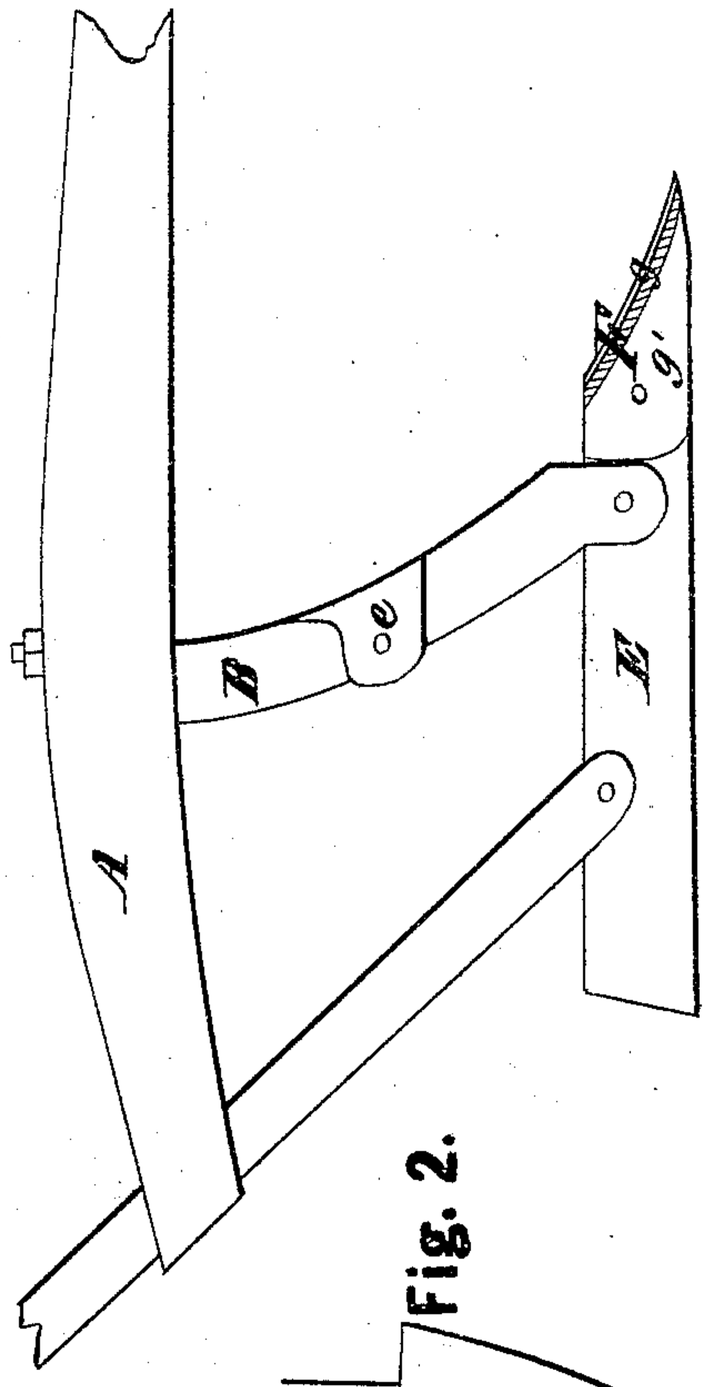

Fig. 2.

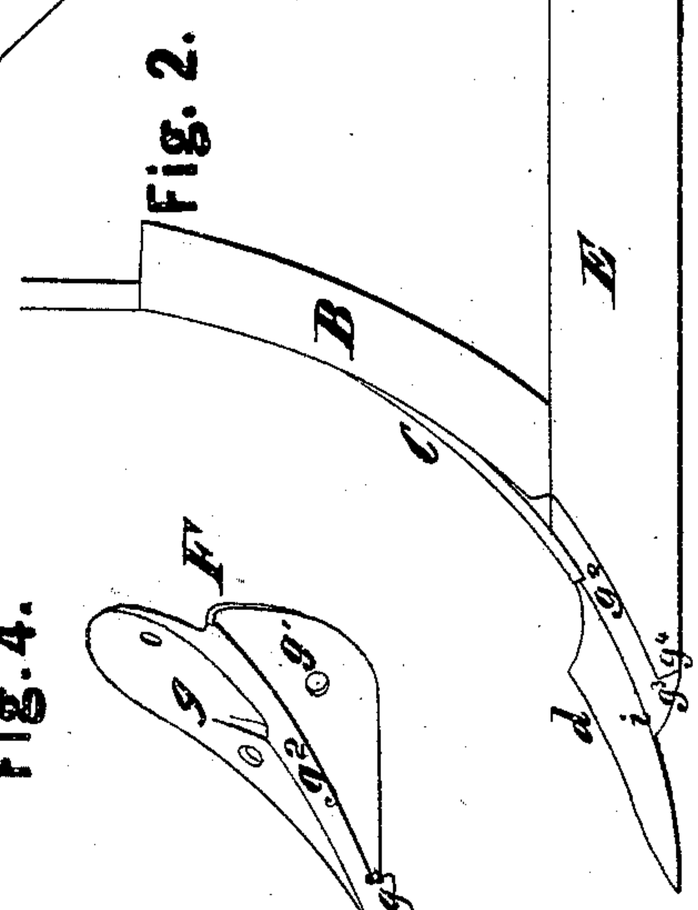

Fig. 3.

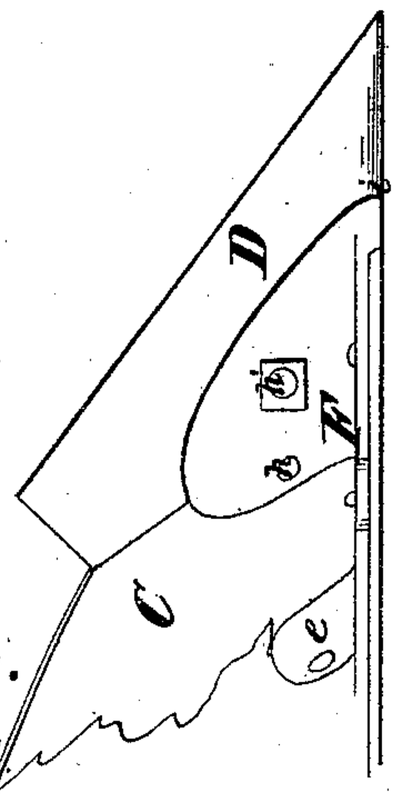

Fig. 4.

WITNESSES.

J. E. Upham.

Phil C. Mast

INVENTOR

Charles Urie,

Chipman Thomas & Co.

Attys.

AM. PHOTO-LITHOGRAPHIC CO. N.Y. (OSBORNE'S PROCESS)

UNITED STATES PATENT OFFICE.

CHARLES URIE, OF EVANSVILLE, INDIANA.

IMPROVEMENT IN PLOWS.

Specification describing Letters Patent No. **130,773**, dated August 20, 1872.

To all whom it may concern:

Be it known that I, CHAS. URIE, of Evansville, in the county of Vanderburg and State of Indiana, have invented a new and valuable Improvement in Plows; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawing making a part of this specification and to the letters and figures of reference marked thereon.

Figures 1 2 3 4 of the drawing are representations of sectional details of my invention.

This invention has relation to cast-steel plows; and the novelty consists in the construction and arrangement of a malleable metal saddle placed behind the mold-board and share, secured thereto and to the land-side bar, and flanged so as to rest between the mold-board and share and the land-side, as hereinafter described. The object of my invention is to provide a suitable means of connection between the mold-board, share, and land-side, which will serve as a cushion to deaden the force of shocks on these parts of the plow, which are designed to be made of thin steel, and may be easily broken unless their edges are in contact with said softer metal.

Referring to the drawing, A represents the draft-beam; B, the plow-standards; C, the mold-board; D, the share, having the cutter *d* bent up at its point. The latter is made solid with the share, instead of being united by a weld. E represents the land-side plate or bar. The parts C D E are made of thin cast-steel. The standard is made of wrought-iron, and is crimped in a cast die so as to give it strength. The land-side bar is secured to the lower end of the standard. The mold-board is secured to an oblique lug, *e*, projecting from the standard. F designates the saddle, constructed of malleable metal, and adapted to fit the angle formed by the mold-board and share and the land side. The saddle consists of the curved plate *g*, provided with the vertical flange g^1 and the flange g^2. The flange g^2 fills a crevice between the beveled end of the land-side bar and the under sides of the share and mold-board, and serves as a cushion to produce firmness of parts and counteract the effect of shock or strain. The plate *g* is secured to the mold-board by a rivet, *h*, or equivalent, and to the share by a bolt and nut, *h'*. The share is designed to be removable, so that when worn another may be substituted. The land-side is secured to the flange g^2 by a bolt or rivet. The flange g^2 is made flush with the surface of the land-side, and has a shoulder at g^3 to fit the shoulder g^4 of the land-side bar. The share should be slightly rounded at *i*, so that when the saddle is fitted to its place a slight groove may be produced, in which the share will set. The saddle should be made of material sufficiently malleable to allow it to be hammered into exact conformity with the curvature of the plow parts.

What I claim as my invention, and desire to secure by Letters Patent, is—

The combination, with a mold-board and share and land-side, made of thin steel plates, the soft-metal saddle F, consisting of a curved plate, *g*, vertical flange g^1, and the lateral rib g^2, interposed between the share and land-side, substantially as specified.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

CHARLES URIE.

JAMES W. VICKERY,
GEORGE MCGREW.