

M. BUTLER.  
Plow.

No. 219,687.

Patented Sept. 16, 1879.

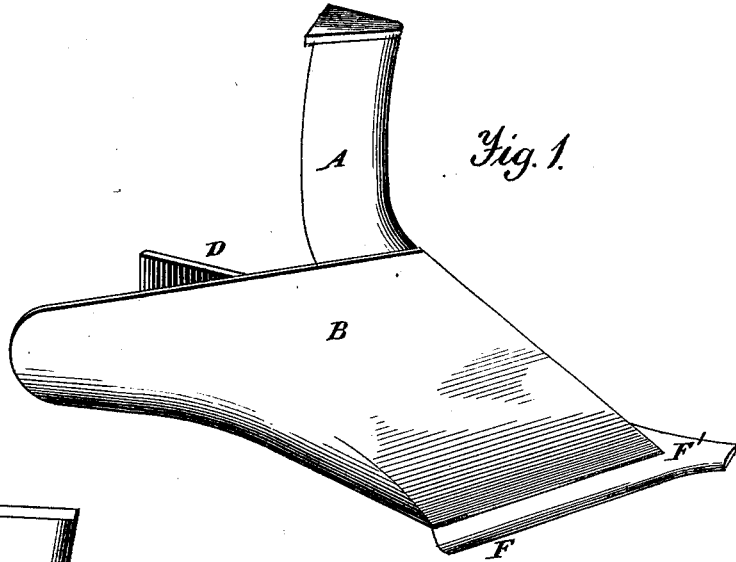


Fig. 1.

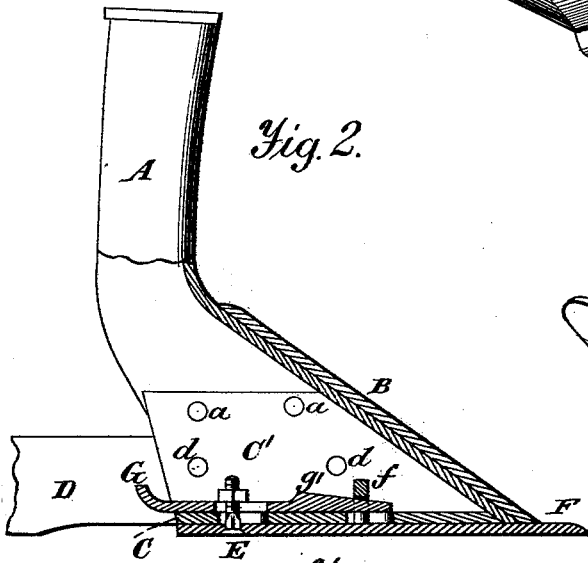


Fig. 2.

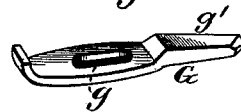


Fig. 5.

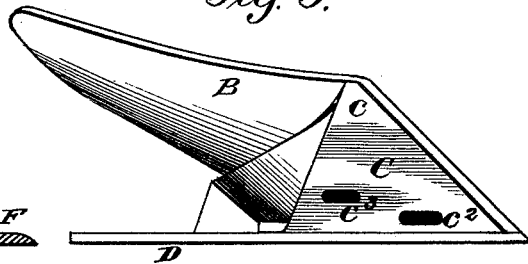


Fig. 3.

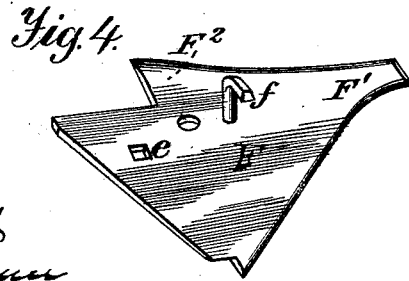


Fig. 4.

Witnesses.  
A. Ruppert,  
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# UNITED STATES PATENT OFFICE.

MANLOVE BUTLER, OF VERNON, INDIANA, ASSIGNOR OF ONE-HALF HIS  
RIGHT TO P. C. MCGANNON, OF SAME PLACE.

## IMPROVEMENT IN PLOWS.

Specification forming part of Letters Patent No. 219,687, dated September 16, 1879; application filed  
March 13, 1879.

*To all whom it may concern:*

Be it known that I, MANLOVE BUTLER, of Vernon, in the county of Jennings and State of Indiana, have invented certain new and useful Improvements in Plows; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification.

Figure 1 is a perspective view of a plow representing my invention. Fig. 2 is a vertical section of the same. Fig. 3 is a bottom view of same with the point removed. Fig. 4 is a perspective view of the point. Fig. 5 is a perspective view of the key.

Identical parts in the drawings are designated and referred to by the same letters.

My invention relates to plows; and it consists in a frog in the bottom of the plow, at the point, extending from the land-side to the mold-board side, to which is attached a flat point provided with a cutting point or projection extending under the land upon the land-side, and the point made adjustable by means of a stud, slots, a bolt, and key, as will hereinafter more fully appear.

A is the standard of the plow. B is the mold-board, constructed and attached in the usual manner. C is the frog, located in the bottom of the plow and at the point, connecting with the mold-board at *e*, and provided with a flange, *e*<sup>1</sup>, to which the land-side D is attached by the bolts *d*, which flange is also attached to the standard of the plow by the

bolts *a*. In this frog C there are two slots, *e*<sup>2</sup> *e*<sup>3</sup>. The bolt E passes through the aperture *e* in the point F and the slot *e*<sup>3</sup> in the frog and the slot *g* in the key G. The slot *e*<sup>2</sup> is for the introduction of the hooked stud *f*.

The point F is provided with a common elongated point, F<sup>1</sup>, and a point, F<sup>2</sup>, the latter extending horizontally upon the land-side of the plow for cutting under the land in such a manner as to render the turning of the following furrow easier, and by means of which a plow can be made to turn a wider furrow than without this point F<sup>2</sup>.

The key G is placed upon the upper side of the frog C, with its incline *g*' engaging the hook of the stud *f*, while the bolt E retains it in its position. The slots *e*<sup>2</sup> and *e*<sup>3</sup> of the frog C and the slot *g* of the key G enable the point F to be adjusted and projected in case of wear.

I am aware that heretofore there have been projecting points on a plow similar to the point F<sup>2</sup>. Therefore I do not claim the point F<sup>2</sup> broadly; but

What I do claim as new, and which I desire to secure by Letters Patent, is—

The point F, provided with the hole *e*, stud *f*, and points F<sup>1</sup> and F<sup>2</sup>, in combination with the frog C and key G, constructed and operating as described, as and for the purposes substantially as set forth.

In testimony that I claim the foregoing as my own I affix my signature in presence of two witnesses.

MANLOVE BUTLER.

Witnesses:

JAS. F. MITCHEL,  
ALLEN W. BROWN.