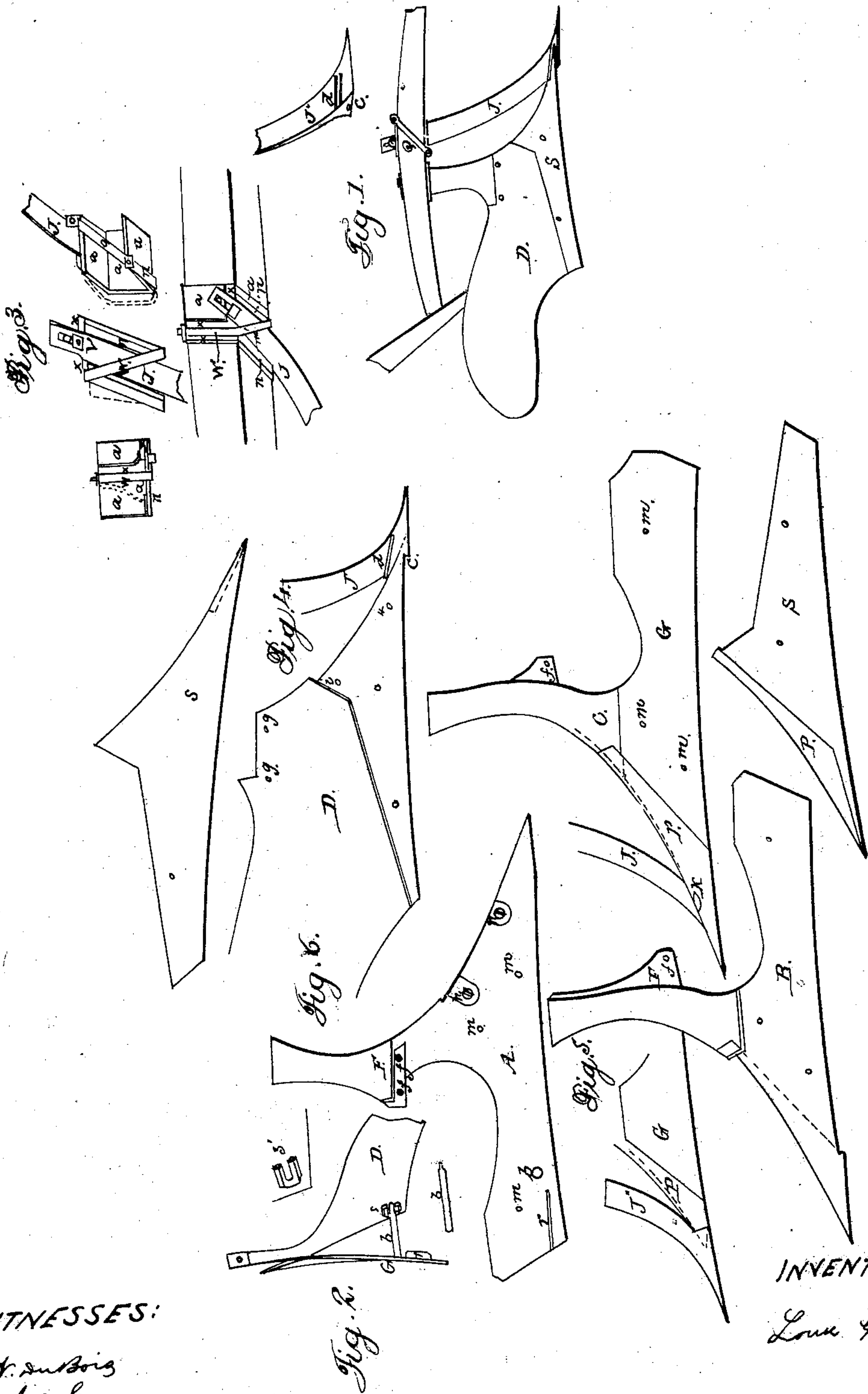


L. GREEN.

Plow.

No. 38,581.

Patented May 19, 1863.



WITNESSES:

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LOURE GREEN, OF GREAT BEND, PENNSYLVANIA.

IMPROVEMENT IN PLOWS.

Specification forming part of Letters Patent No. 38,581, dated May 19, 1863.

To all whom it may concern:

Be it known that I, LOURE GREEN, of Great Bend, in the county of Susquehanna, in the State of Pennsylvania, 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 construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, in which corresponding parts are represented by the same letter.

Figure 1 represents the plow when complete.

A, Fig. 6, is the right side of the head and neck piece, cast whole, before the mold-board or landside is attached.

h h are lips, by which the mold-board D is attached by means of bolts through *i i* of Fig. 4, and the flange F is attached by bolts at *f f* passing through corresponding holes *g g* in the mold-board D.

m m m are bolt-holes for attaching the landside; *r*, a rest for the foot of the plow-handle, and *b* an iron pin or brace cast upon the head part, with a dovetailed end to attach it to the mold-board, as more fully shown in Fig. 2. B is the head and neck piece, showing the left side of the same. C is the same with the share S attached, showing the cap *p* in place, and also the manner of attaching the colter J by means of a hook, *k*, passing through a slot in the cap.

G is the landside, attached by bolts through *m m m*.

The mold-board D, when in place, is attached to the head-piece A on the shin by lips *h h* on the under side and bolts passing through the edge of the board at *i i* into them, holding them together firmly, and is also held by bolts *f f* at the flange F passing through the mold-board at *g g*. The mold-board is to pass over and rest directly on the shin, in face with the head-piece and landside. This is particularly necessary for prairie plows requiring steel mold-boards, as no loose earth will adhere to steel as to iron. The head and neck piece being of iron, the mold-board must cover it all up on the shin, so as to leave no chance for earth to adhere there, as it would accumulate all the way back if allowed to do so in front, notwithstanding the board may be of steel.

At Fig. 2 is shown the manner of attaching the pin or brace *b*, one end being cast fast to the head-piece and the other dovetailed, so as to fit into corresponding projection cast upon the mold-board, as shown at S'. This brace *b* is to prevent the plow from spreading or being crowded together. The step or rest *r* supports the lower end of the handle and prevents the plow from gaining pitch from the wearing of the handle in the loops which hold it to the landside.

In Fig. 3 is shown the arrangement of the lock-colter. *a a a* is a cast box, with three sides, having raised shoulders *x x* and *n n*. *w* is the strap or clasp, which passes around the colter and beam, holding the colter-blade J in place. The blade is raised or lowered by means of the bolt V sliding in the slot O, and the clasp secured by means of the strap Q. The blade J is attached at the lower end to the share by means of the hook *k* fitting into a slot.

Another form of the blade is shown at Fig. 4, where the blade forms the point to the share, and is provided with a socket at *c* to receive the point of the mold-board D and a slot at *d* to receive the share S, which is notched at the point for the purpose. The cap *p*, Fig. 5, is cut out so as to allow the colter-point to face with the landside.

Where steel mold-boards are used the cap *p* may be dispensed with and the landside extended to the mold-board and colter, as shown by the dotted line in Fig. 5, the edge of the mold-board projecting over so as to face with the landside.

In using the steel mold-board for prairie breaking the share S may be wholly dispensed with and the board made smooth to the lower edge, where the "lay" is usually riveted on.

The advantages of a detachable mold-board are obvious. On almost every farm are found varieties of soils requiring differently-shaped mold-boards, and consequently to work each variety to advantage the farmer must have a variety of plows. By the arrangement described above the farmer need only have a variety of mold-boards to suit every kind of soil he wishes to plow.

The form of lock-colter and manner of attachment to the point possesses many advan-

tages. The blade forms a true face with the landside, and may be readily adjusted by the bolt V, vertically or laterally, by placing beneath the front or back edge pieces of leather, which will be held firmly by the clasp *w*.

In plows made wholly of cast-iron, and which do not require the detached mold-board, I combine the head and neck piece (made with the extension for the landside, as shown at A and B) with the mold-board and attach them together permanently by means of the cast pin or brace *b*. These parts are all cast together solid and ready to receive the share S and landside G. The lock-colter with either form of blade may be used.

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

1. The brace-rod *b*, cast solid on the exten-

sion-head or main frame G, and having its opposite end provided with a dovetail to fit into the socket S' on the inside of the mold-board D, as and for the purposes set forth.

2. The colter J, provided with the slot O and bolt V in its upper end and the lugs *d* near its lower end for receiving and holding the point of the share S when used in combination with said share S.

3. The arrangement and combination of the extension-head or main frame A, mold-board D, share S, colter J', lugs *d*, brace-rod *b*, and slot S', as and for the purposes set forth.

LOURE GREEN.

Witnesses:

N. DU BOIS,

J. C. GREEN.