(No Model.)

N. B. PUMPHREY.

PLOW.

No. 491,904. Patented Feb. 14, 1893.

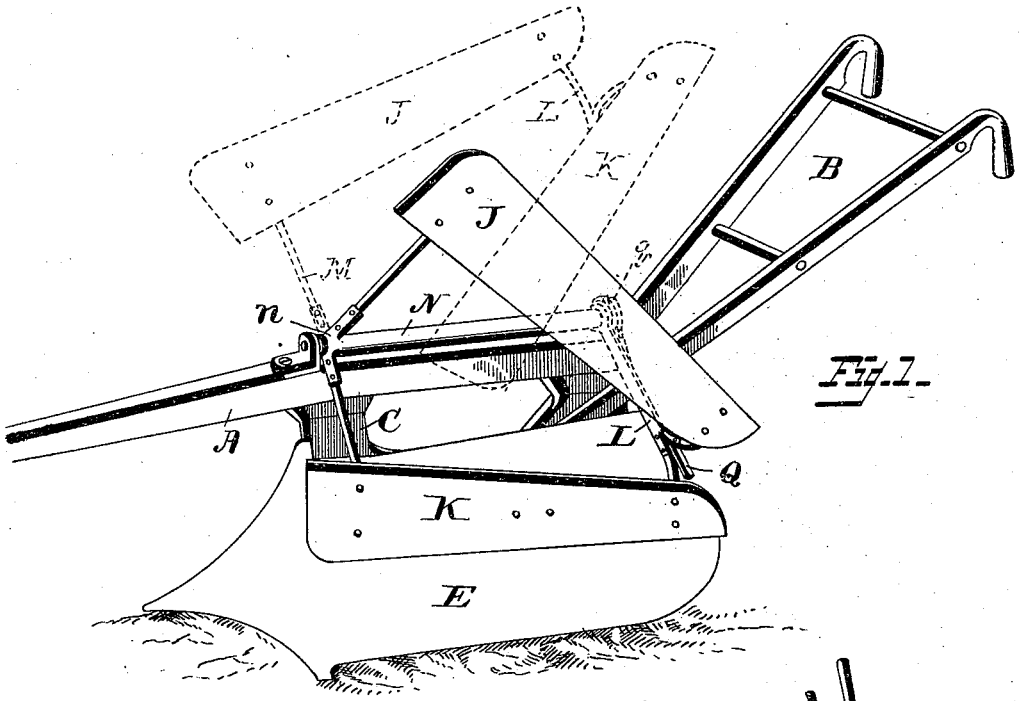

Fig. 1.

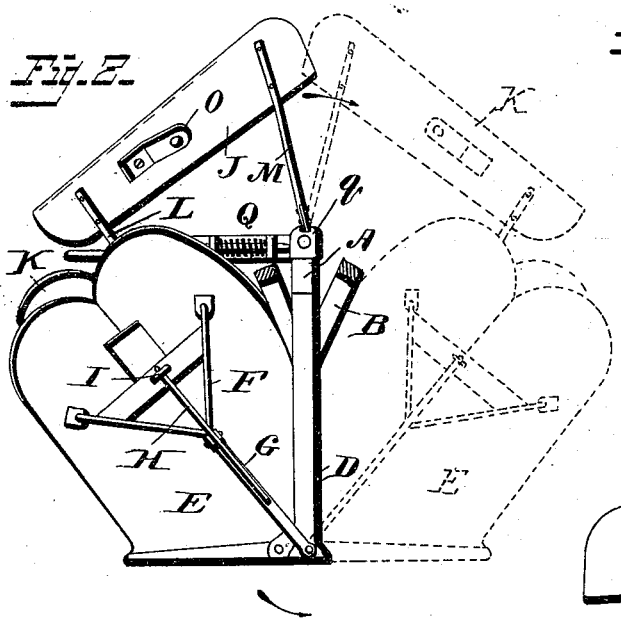

Fig. 2.

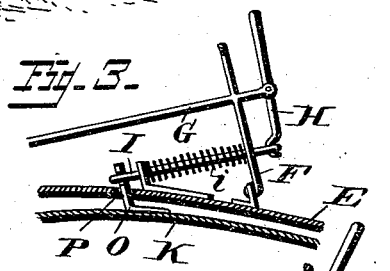

Fig. 3.

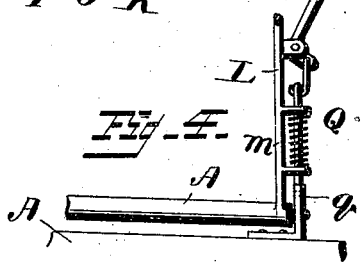

Fig. 4.

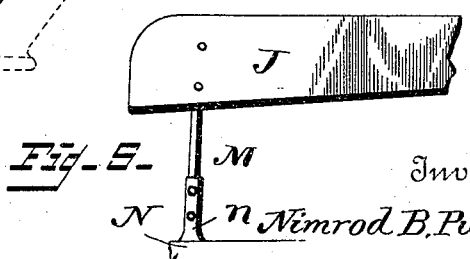

Fig. 5.

Witnesses

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UNITED STATES PATENT OFFICE.

NIMROD B. PUMPHREY, OF MOOREFIELD, OHIO.

PLOW.

SPECIFICATION forming part of Letters Patent No. 491,904, dated February 14, 1893.

Application filed April 20, 1892. Serial No. 429,949. (No model.)

To all whom it may concern:

Be it known that I, NIMROD B. PUMPHREY, a citizen of the United States, residing at Moorefield, in the county of Harrison and State of Ohio, have invented certain new and useful Improvements in Plows; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to plows; and aims to combine in one structure, a right hand, a left hand and hill side plow, and provide simple and efficient means whereby the plow can be readily converted from one style of plow to the other as may be required.

The improvement consists of the novel features and the peculiar construction and combination of the parts which will be hereinafter more fully described and claimed and which are shown in the annexed drawings, in which;

Figure 1 is a perspective view of the plow embodying my invention, the auxiliary mold boards being shown in an elevated position by dotted lines. Fig. 2 is a rear view of the plow, showing the adjusted position of the mold board and auxiliary mold boards by dotted lines. Fig. 3 is a central longitudinal section of the mold board showing the relative position of the auxiliary mold boards and the fastening devices for the latter. Fig. 4 is a detail view of the rear arm which supports the auxiliary mold boards, showing the fastening devices for securing the auxiliary mold boards in an elevated position. Fig. 5 is a detail view showing the manner of detaching the auxiliary mold boards from the rock bar.

The beam A, the handles B, the standard C having the landside bar D and the mold board E are of ordinary construction and relative arrangement. The rear portion of the mold board is provided with a Y-brace F which is pivotally connected at its free end with the rear end of the landside bar D, the mold board being pivotally connected near its front end with the front end of the said landside bar D. A horizontal bar G secured at its inner end to the mold board E and near its outer end to the Y-brace F, forms a support for a lever H which is provided to operate the locking bolt I that is mounted in a cross bar of the Y-brace F and in a lug depending from the mold board. This locking bolt is projected forward by the spring *i* which is mounted thereon and held between the said cross bar and lug.

The auxiliary mold boards J and K flare in opposite directions from their rear ends and are secured to arms L and M which are connected at their inner ends to a rock bar N which is journaled in suitable bearing on the beam A. These mold boards are constructed to form a continuation of the mold board E and touch the latter on a line below the central longitudinal line of the said mold board E, as shown most clearly in Fig. 1. That edge of the auxiliary mold board which comes in contact with the mold board E, is tapered to a knife edge and conformed to the outline of the said mold board E to lie closely against the same and form a snug joint. The front end of the auxiliary mold board is constructed to terminate just in the rear of the plow point and tapers in the plane thereof so as not to impede the action of the plow. Each of the auxiliary mold boards is provided on its rear side with an apertured lug O that is designed to project through an opening P in the mold board E and be engaged by the locking bolt I for the purpose of locking the mold board E and the auxiliary mold boards in proper relation. When reversing the mold board to change the nature of the plow it is desirable to hold the auxiliary mold boards in an elevated position so as to be out of the way, for this purpose a hand latch Q is provided and disposed to engage with a notch plate *q* to effect the desired result. This hand latch is supported on an arm *m* to which the inner ends of the arms L are connected by bolts so that one or the other of the said arms L may be readily disconnected from the arm *m* when it is desired to remove either of the auxiliary mold boards. The front arms M are bolted to a lug *n* on the rock bar N similar to the connection between the arms L and *m* and for a like purpose.

When it is desired to use the plow as a right or left hand plow, one or the other of the auxiliary mold boards can be removed in

the manner hereinbefore set forth, thereby reducing the weight of the plow and dispensing with the auxiliary mold boards not required for immediate use. For a hill side plow the mold board E is reversed when required by elevating the plow and turning the said mold board and the landside bar from one side to the other as may be required. During this change the auxiliary mold boards are held in an elevated position out of the way by the hand latch Q in the manner already set forth. In use the auxiliary mold boards and the mold board proper are locked together by the bolt I in the manner set forth.

Having thus described my invention, what I claim, and desire to secure by Letters Patent is;

1. In a plow the combination with a reversible moldboard, of two auxiliary moldboards diverging at their forward ends and pivotally connected with the beam by means of arms, and adapted to tilt from side to side over the beam, and a locking mechanism to positively secure the auxiliary moldboards in an elevated position and lock the main and the auxiliary mold boards together in an operative position, substantially as set forth.

2. In a plow the combination with a reversible mold board, of two auxiliary mold boards diverging at their forward ends and pivotally connected with the beam by means of arms and adapted to touch the mold board proper about midway of its edges, and a locking mechanism to positively lock the auxiliary and the main mold boards together in an operative position, substantially as described.

3. In a plow the combination with a reversible mold board, and auxiliary mold boards, each having a projection to extend through an opening in the mold board proper, of a locking bolt carried by the said mold board to engage with the aforesaid projection, and means for actuating the said locking bolt, substantially as set forth.

4. In a plow the combination with a reversible mold board, and a rock shaft journaled on the beam, of auxiliary mold boards detachably connected with the said rock shaft, substantially as and for the purpose set forth.

In testimony whereof I affix my signature in presence of two witnesses.

NIMROD B. PUMPHREY.

Witnesses:
C. A. SKINNER,
J. M. SCHREIBER.