(No Model.)

G. MOORE.

VINEYARD PLOW.

No. 454,828. Patented June 23, 1891.

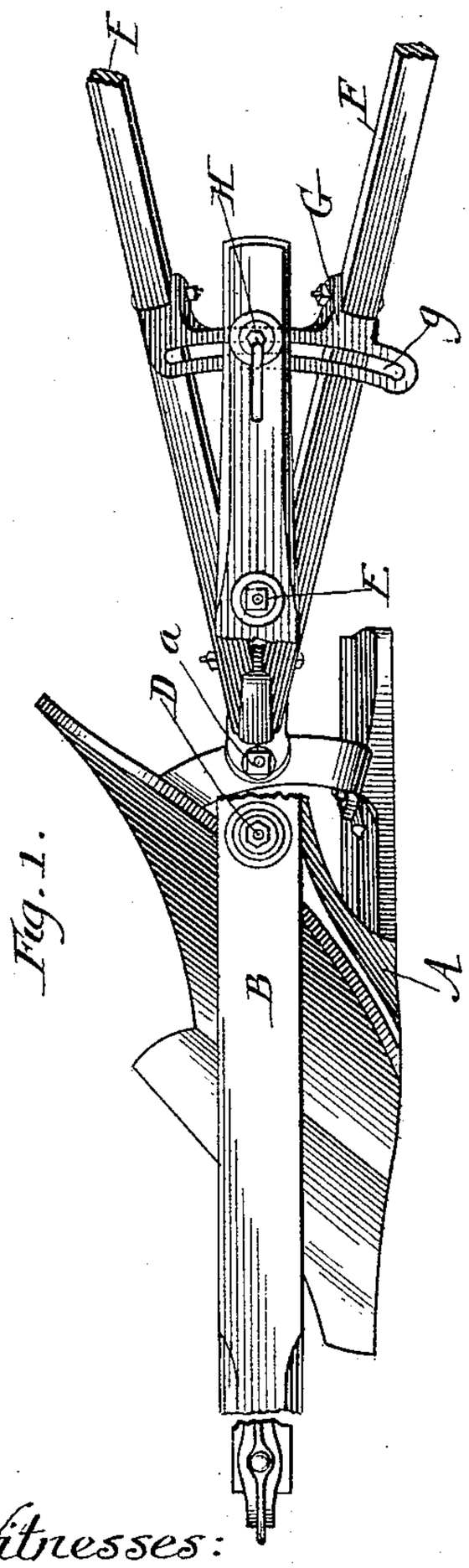

Fig. 1.

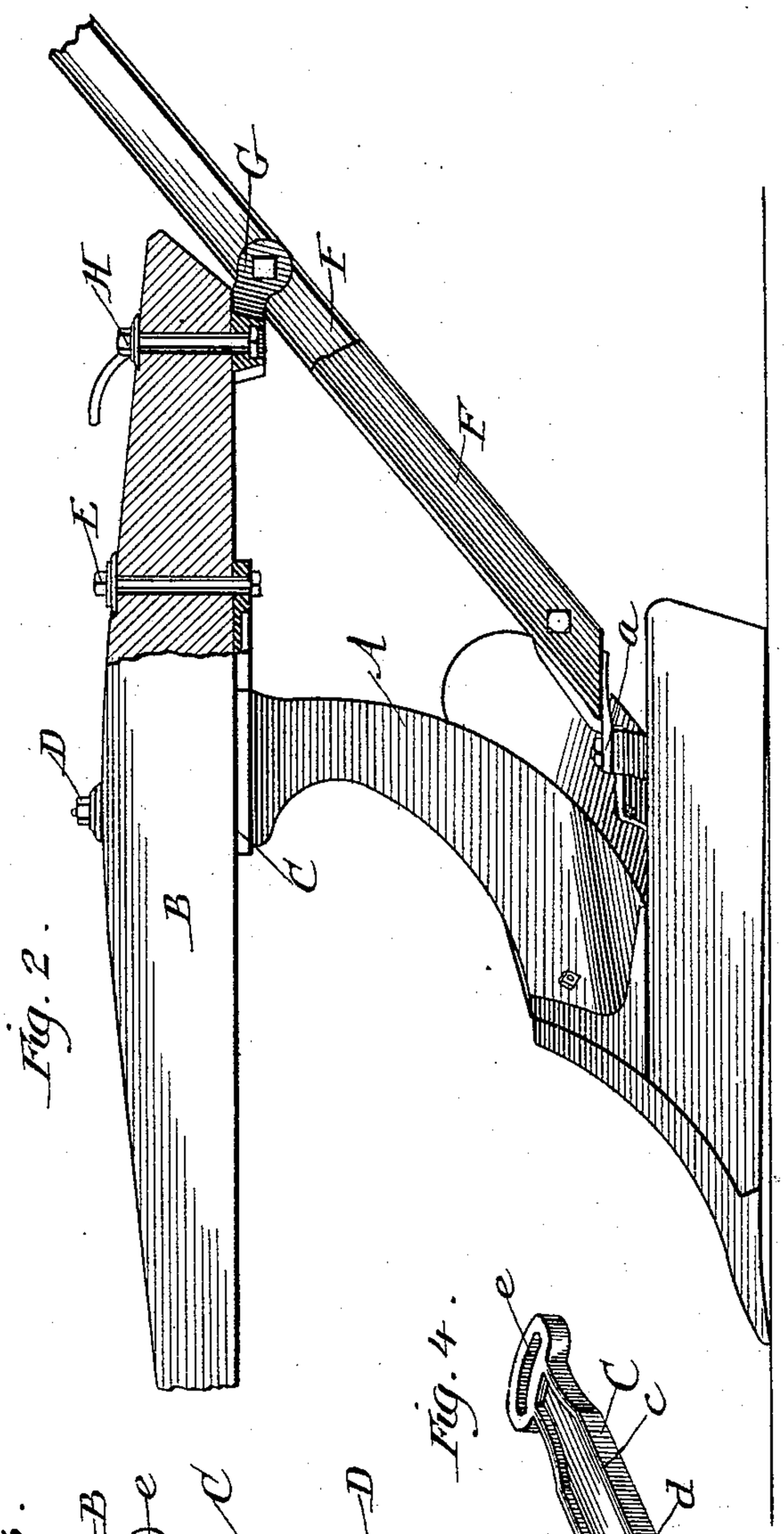

Fig. 2.

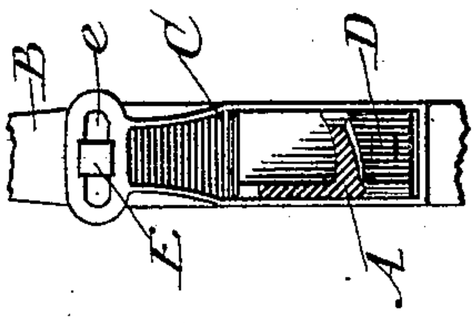

Fig. 3.

Fig. 4.

Witnesses:
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UNITED STATES PATENT OFFICE.

GILPIN MOORE, OF MOLINE, ILLINOIS, ASSIGNOR TO THE DEERE & COMPANY, OF SAME PLACE.

VINEYARD-PLOW.

SPECIFICATION forming part of Letters Patent No. 454,828, dated June 23, 1891.

Application filed November 11, 1890. Serial No. 371,105. (No model.)

To all whom it may concern:

Be it known that I, GILPIN MOORE, a citizen of the United States, residing at Moline, Rock Island county, State of Illinois, and have invented a new and useful Improvement in Vineyard-Plows, of which the following is a specification, reference being had to the accompanying drawings, in which—

Figure 1 is a top or plan view, some parts being broken away. Fig. 2 is a side elevation, being partly in section. Fig. 3 is a detail, being an under side view of the attaching-plate; and Fig. 4 is a perspective view of the attaching-plate.

This invention relates to plows, and particularly to vineyard-plows. It is designed for use principally in vineyards. Such use requires an adjustment of the point of attachment of the draft of the plow-beam to one side of the line of plowing to enable the draft-animal to travel at a distance from the vines. It is also necessary to adjust the handles to one side to enable the plowman to travel to one side of the furrow at a distance from the vines.

The objects of my present invention are to provide novel devices for adjusting the plow beam and handles to one side of the line of plowing, for the purpose above explained, and to provide a device by which such adjustment may be readily obtained upon hand-plows as commonly made. I accomplish these objects as illustrated in the drawings, and as hereinafter described.

What I claim as new will be pointed out in the claims.

In the drawings, A indicates the plow-standard, mold-board, and landside. These may be made in any suitable form, and may be any one of a large number of the common forms.

B indicates the plow-beam, which may be made in any suitable form, and may be any one of a large number of common forms.

C indicates an attaching-plate, which I place upon the upper portion of the standard A, and upon which the plow-beam B is secured. The plow-beam is pivotally secured to the standard A and plate C by means of the bolt D, which may pass through said beam, through a hole *d* in the plate C, and through a hole in the upper portion of the standard A.

The attaching-plate C is provided with a flange *c*, which is adapted to fit over the upper portion of the standard A, and when the parts are drawn together by the bolt D said attaching-plate, by means of the flange *c*, is firmly held upon the standard A; but, the upper surface of the plate C being smooth, the beam B may be turned on the bolt D. The plate C constitutes a separate cap-piece for the plow-standard A, and the marginal flange *c* of the cap-piece provides a socket in which the upper end of the plow-standard is located, so that the cap-piece cannot move laterally on the standard, while a single bolt D fulfills all the conditions required for detachably connecting the standard, the cap-piece, and the beam together and enabling the beam to turn upon the bolt as a pivot or center. By turning the beam B upon the plate C it can be adjusted to bring the point of attachment of the draft to one side of the line of the plowing. The beam is secured in this adjusted position by means of a bolt E, which may pass through said beam and through a slot *e* in plate C. By this construction the beam can be adjusted in relation to the plow-standard A to any desired position for the purpose above mentioned, and can be readily secured in such position by means of the bolt E. By the use of a plate C, which can be interposed between the beam B and standard A of most of the common plows of the style shown, such plows can be readily changed to adapt them for the adjustments necessary for a vineyard-plow.

F indicates the handles, which are pivoted to the lower portion of the plow-standard or to a bracket secured to the landside and mold-board upon a pivot *a*. These handles F, at about the horizontal plane of the beam B, are provided with a bracket G. This bracket G is provided with a segmental slot *g*, as best shown in Fig. 1. A bolt H may pass through the beam B and the slot *g* in the bracket G, which will secure the bracket G to the beam B. By loosening the bolt H the handles F may be adjusted laterally for the purpose

above mentioned. It will also be necessary to adjust the handles after the adjustment of the beam B upon the plate C to bring them in proper position. This may be done by means of the bolt H.

From the foregoing description it will be seen that the beam B can be adjusted laterally and secured in its adjusted position; that the handles F may also be adjusted laterally; that either adjustment may be made separately, and that by means of the bracket G and bolt H the handles may not only be adjusted in relation to the plow A, but also in relation to the adjustment of the beam B.

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

1. The combination, with a plow-standard A and beam B, of a separate cap-piece C, having a transverse slot *e* in its rear extremity, and the marginal flange *c*, constituting a socket in which the upper end of the plow-standard is inserted, a bolt D, connecting the standard, cap-piece, and the beam together and forming a pivot for the beam, and a bolt E, passing vertically through the beam and the transverse slot of the cap-piece, substantially as described.

2. The combination, with a plow-standard and a plow-beam, of a separate cap-piece C, removably engaged with the upper end of the plow-standard and having its rear extremity provided with a transverse slot *e*, a bolt D, connecting the standard, the cap-piece, and the beam together and constituting a pivot-pin for the beam, a bolt E, passing vertically through the beam and the transverse slot of the cap-piece, the handles F, connected at the lower end with the landside and mold-board by a pivot-pin *a*, a bracket G, secured to the handles and having a segmental slot *g*, and a clamp-bolt H, passing through the segmental slot and the rear extremity of the plow-beam, substantially as and for the purposes specified.

GILPIN MOORE.

Witnesses:
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