

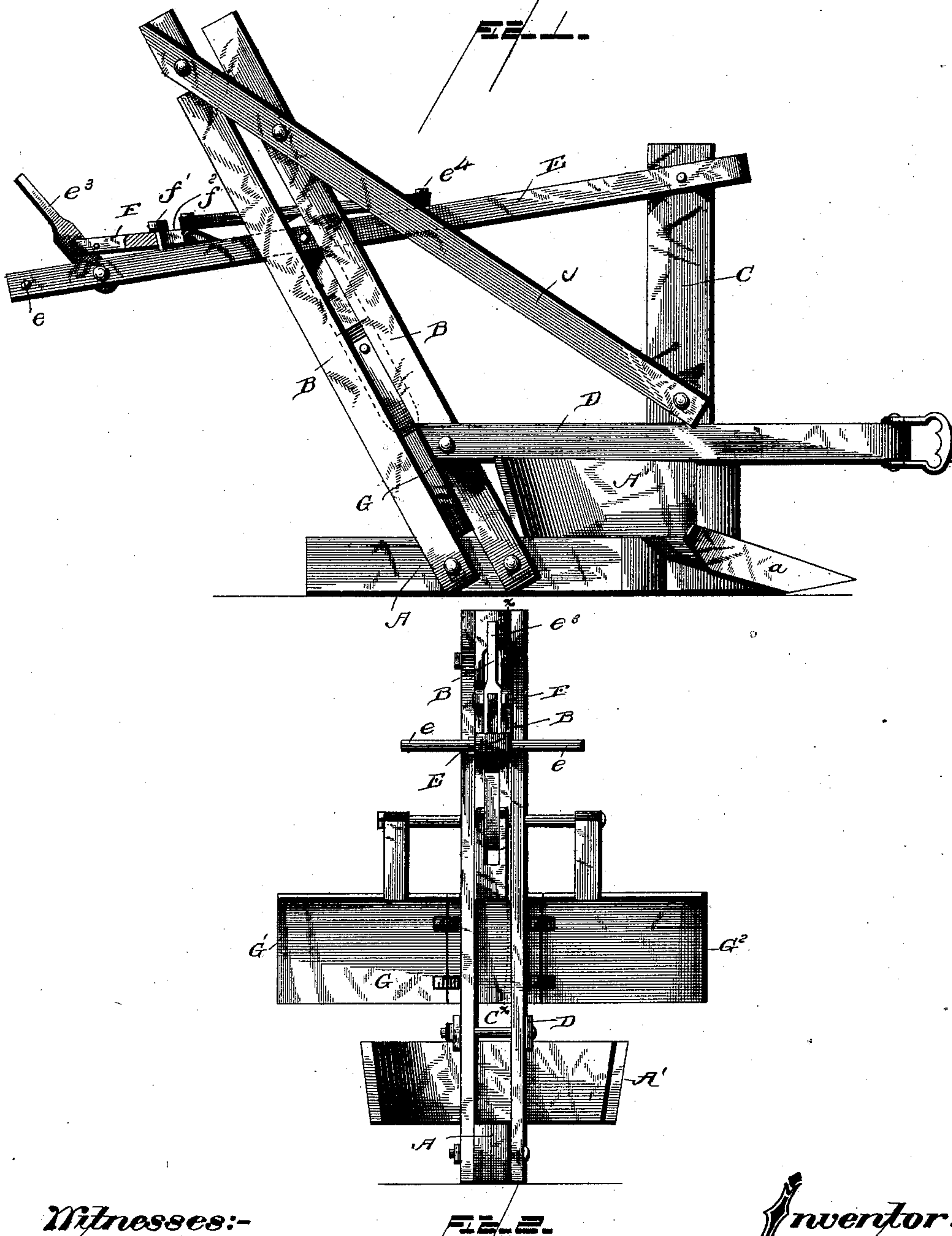
(No Model.)

2 Sheets—Sheet 1.

H. ADAMS.
DITCHING PLOW.

No. 359,196.

Patented Mar. 8, 1887.



Witnesses:-

W. Nashille
S. V. Edmonds

Inventor:-

Hugh Adams.
By *McGrew & Small*
Attorneys.

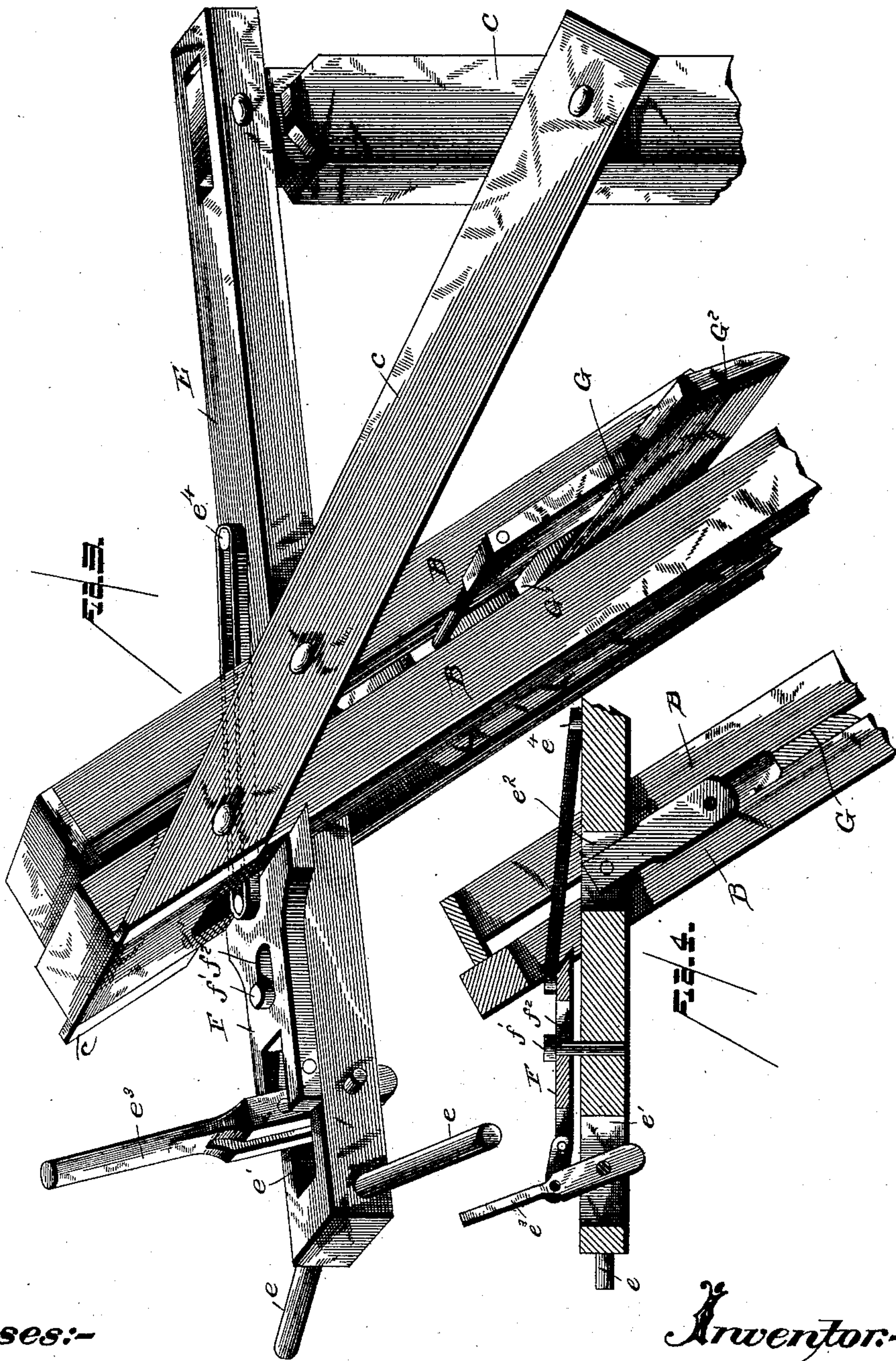
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"St. Asaph's"
S. T. Edmonds

Inventor:-

Hugh Adams.
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Attorneys.

UNITED STATES PATENT OFFICE.

HUGH ADAMS, OF PATTERSONVILLE, LOUISIANA.

DITCHING-PLOW.

SPECIFICATION forming part of Letters Patent No. 359,196, dated March 8, 1887.

Application filed September 4, 1886. Serial No. 212,732. (No model.)

To all whom it may concern:

Be it known that I, HUGH ADAMS, a citizen of the United States, residing at Pattersonville, in the parish of St. Mary's and State of Louisiana, have invented certain new and useful Improvements in Ditching-Plows; and I do 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, reference being had to the accompanying drawings, and to the letters or figures of reference marked thereon, which form a part of this specification.

My invention relates to ditching-plows of that class designed for clearing ditches, drains, &c., wherein the earth has already become loosened by plows or drags, and has for its object the provision of an article which, while simple and durable in construction, shall be effective in operation and manipulation; and to these ends the invention consists in the construction, combination, and arrangement of parts, substantially as hereinafter fully set forth, and specifically pointed out in the claims.

The invention is illustrated in the accompanying drawings, which form a part of this specification, and in which—

Figure 1 is an elevation of my improved ditching-plow. Fig. 2 is a rear elevation thereof. Fig. 3 is an enlarged perspective view of a portion of the plow, and Fig. 4 is a sectional view on the line *xx* of Fig. 2.

Referring to the drawings, A designates a beam, which, when the plow is in operation, slides on the ground, and provided at its forward end with a plowshare.

B B designate obliquely-disposed parallel beams, the lower ends of which are secured to the beam A, the upper ends being secured in a manner to be hereinafter described. The lower end of the standard C is secured to the forward end of the beam or runner A. *cc* designate connecting rods or bars, the lower ends of which are secured to the standard C and the upper ends to the obliquely-disposed parallel beams B B.

Secured upon the forward end of the beam A, just back of the plowshare *a*, is the mold-board A', which slants rearwardly in approximately the same plane with the share. Above the mold-board, and secured on either side to the beams B B, is a bifurcated plow-beam, D,

the bifurcation in which extends forward as far as the front side of the standard C, against which it abuts. The forward end of this bar is provided with a clevis for the attachment of the tree.

The construction as thus far described constitutes the frame-work of my plow.

Pivoted to and allowed to play upon the upper beveled end of the upright or standard C is an arm or lever, E, which extends rearwardly through and a short distance beyond the obliquely-disposed beams B B, where it is provided with handles *ee*, for manipulating the plow. This arm is slotted at *e'* and *e''*, in the former of which is pivoted a lever, *e'''*, and movably secured thereto is a spring-actuated sliding catch, F, which engages, when desired, with a transverse notch cut in the rear side of the beams B B. This catch is limited in its movement by a pin, *f*, which passes through a slot, *f''*, therein and enters the adjusting-lever E. On the upper surface of the arm E is a projecting lug, *e''''*, to which catch F is connected by means of a spring of any desired construction, the operation and object of which will readily be understood. Sliding in the transverse opening between the obliquely-disposed beams B B is a supplementary plowshare or drag, G, which is connected by any suitable means to the adjusting-lever E, and when the latter is detached from its securing place—that is, in the notch in the beam B—the plowshare rests upon the beam or runner A, as clearly shown in Fig. 1.

The supplementary plowshare G, which acts as a scraper to carry earth away from the banks of the ditch, is preferably made in three parts, the middle of which slides between the beams B B, and is provided on either edge with extensions *G' G''*, which are adjustably secured thereto in any suitable manner. The object of this arrangement may be stated as follows: When the ditch in which the plow is operating intersects with the end of another ditch, the extension *G'*, or *G''*, as the case may be, can be removed.

I preferably provide a swivel or pivoted connection between the share G and the arm E, the draft upon the former being applied at an angle.

The supplementary plowshare is raised and lowered by means of the arm, the sliding

catch F being withdrawn from the notch in beam B by means of the lever, whereby, at the will of the operator, the width of the ditch can be increased or decreased. If desirable, I can provide plowshares G of different sizes, and make their ends incline rearwardly.

Modifications in details of construction can be made without departing from the spirit or sacrificing the advantages thereof—as, for instance, although I have shown the mold-board in two parts, in practice I make the parts integral, or I may provide any suitable plowshare to adapt the plow to any kind of ground.

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

1. In a ditching-plow, the combination, with the plow-beam, plowshare, and mold-board, of the supplemental plowshare G, the obliquely-disposed beams B B, supported on the beam or runner A, and the adjusting-lever E, substantially as and for the purpose set forth.

2. In a ditching-plow, the combination, with the plow-beam, plowshare, and mold-board, of the obliquely-disposed beams B B, supported on the beam or runner A, the supplemental plowshare G', the lever E, provided with a spring-pawl which engages with a notch in the obliquely-disposed beams, and the standard C, substantially as and for the purpose set forth.

3. In a ditching-plow, in combination with the runner A, standard C, a plow-beam, and mold-board, of the obliquely-disposed and braced beams B B, the adjustable plowshare G, and a pivoted lever, E, connected to the share G and having a releasing-catch, substantially as and for the purpose set forth.

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

HUGH ADAMS.

Witnesses:

CALLEN CHARPANTIER,
F. A. CHARPANTIER.