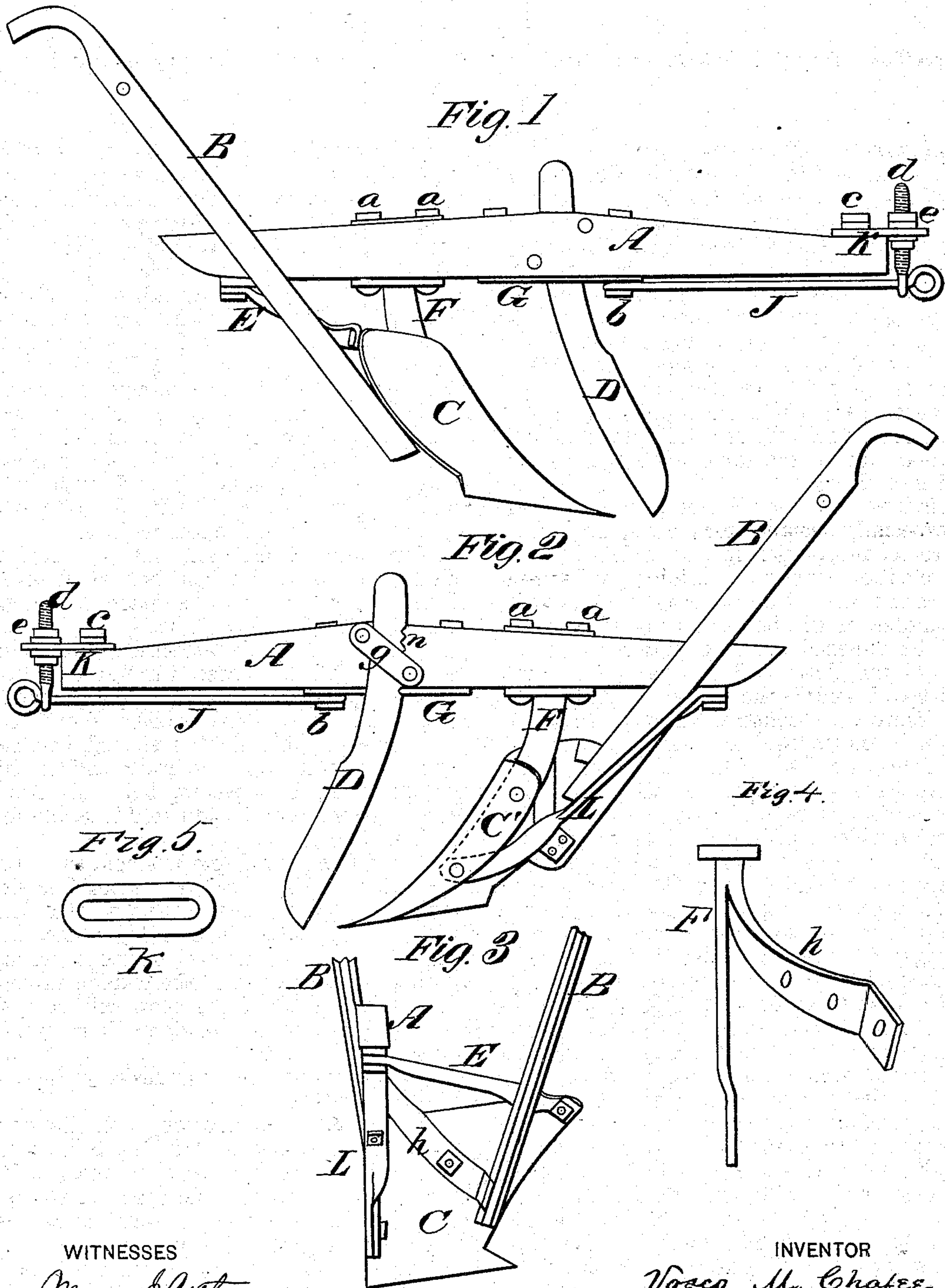


V. M. CHAFEE.  
Stump-Plows.

No. 158,468.

Patented Jan. 5, 1875.



WITNESSES  
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# UNITED STATES PATENT OFFICE.

VOSCO M. CHAFEE, OF CLAY CITY, ILLINOIS.

## IMPROVEMENT IN STUMP-PLOWS.

Specification forming part of Letters Patent No. **158,468**, dated January 5, 1875; application filed October 3, 1874.

*To all whom it may concern:*

Be it known that I, VOSCO M. CHAFEE, of Clay City, in the county of Clay and State of Illinois, have invented a new and valuable Improvement in Stump-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, and to the letters and figures of reference marked thereon.

Figures 1 and 2 of the drawings are representations of side views of my plow. Fig. 3 is a rear view of the same, and Figs. 4 and 5 are detail views.

This invention has relation to plows which are especially designed for plowing up stumps and roots, and preparing newly-cleared land. My invention consists in certain novel means for bracing and strengthening the plow and its handles, as will be hereinafter explained.

In the annexed drawing, A designates the beam of the plow; B B, the handles; C, the mold-board, and D the colter or cutter. The mold-board C is constructed with a narrow flange, C', on its front or land-side edge; but this mold-board has no land-side bar, for the reason that such a bar would seriously interfere with the passage of the plow over an obstruction which could not be cut through safely. F designates the plow-standard, which is rigidly secured to the beam A by means of bolts *a a*, passed through a T-head, as shown in Figs. 1 and 2, and which is firmly bolted to the flange C' inside, and also to the rear side of the mold-board and lower end of the right-hand handle B, as shown in Fig. 3.

It will be seen that the standard F is bifurcated, and that the portion *h* is curved, and fitted to the back of the mold-board, so as to afford a firm brace, which will resist the pressure brought against it. The mold-board is further strengthened by means of a diagonal brace-rod, E, which is bolted to the bottom of the beam A, at its rear end, and also bolted to the outer wing of the mold-board, and to the right-hand handle B. These attachments of the mold-board render it substantial and capable of resisting great strain.

In addition to the bifurcated standard F and the diagonal brace E, I have invented another brace, which is lettered L in Figs. 2 and 3. This brace is rigidly secured to the rear end of the beam A; also, to the lower end of

the left-hand handle B, and also to the inner side of the flange C'. This brace is curved, as shown, so that it will not interfere with the running of the plow over stumps or other objects which cannot be practically cut through.

D designates a colter or cutter, which is made very strong, and inclined, as shown, so that it will make a draw-cut. The rear edge of the shank of the colter D has a number of notches in it, as shown at *n*, Fig. 2, one or the other of which notches receives a portion of a plate, G, which is rigidly bolted to the bottom of the beam A. The colter D is rigidly secured to the left-hand side of the beam A by means of a strap, *g*, and transverse bolts, by loosening which latter the colter can be adjusted as circumstances require.

J designates a draft-rod, the rear end of which is secured to the front bolt of plate G, and the front end of which passes through the lower end of a clevis-bolt, *d*, and has an eye formed on it for the attachment of a double-tree. The bolt *d* passes through the front end of a clevis-plate, K, and is rigidly but adjustably held by nuts and washers above and below plate K. Plate K is slotted, and secured, by a bolt, *c*, to the front end of the beam A, so that by loosening bolt *c* the front end of the rod J can be adjusted laterally for side draft.

When my improved plow is held in working position the front end of the beam is elevated about three inches above a level, and the heel of the share is elevated about one inch. By elevating the heel of the share, as described, the pressure of the turning furrow will be equalized, and the plow will be well balanced, and run as steady as if it had a land-side.

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

In a plow, the combination, with the narrow-flanged mold-board C, of the bifurcated standard F, and the portion *h*, curved and fitted to the back of the mold-board, the diagonal brace E, and brace L, substantially as and for the purpose set forth.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

VOSCO M. CHAFEE.

Witnesses:

R. F. DUFF,  
J. W. CECIL.