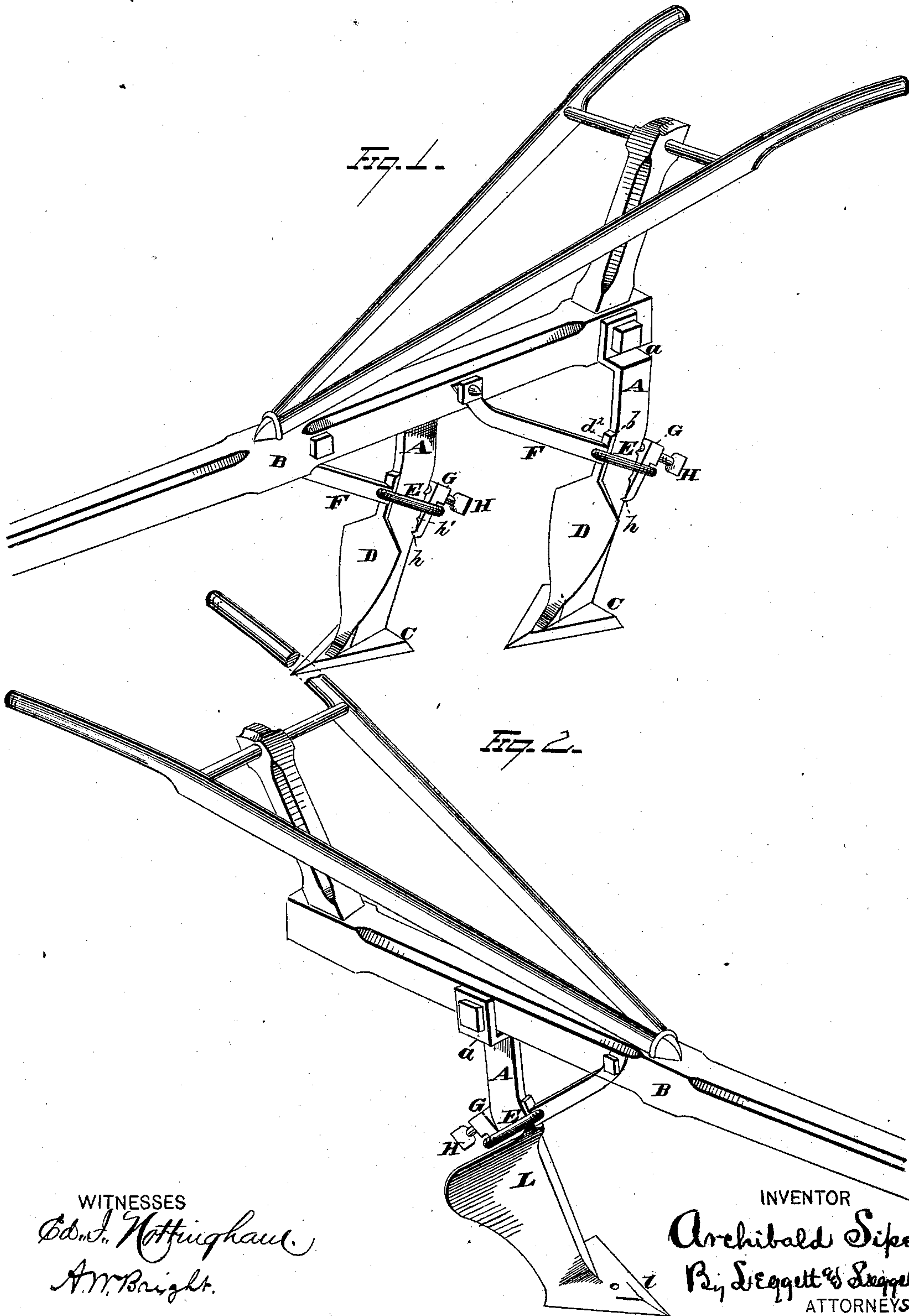


A. SIPE.
Plow.

No. 199,750.

Patented Jan. 29, 1878.



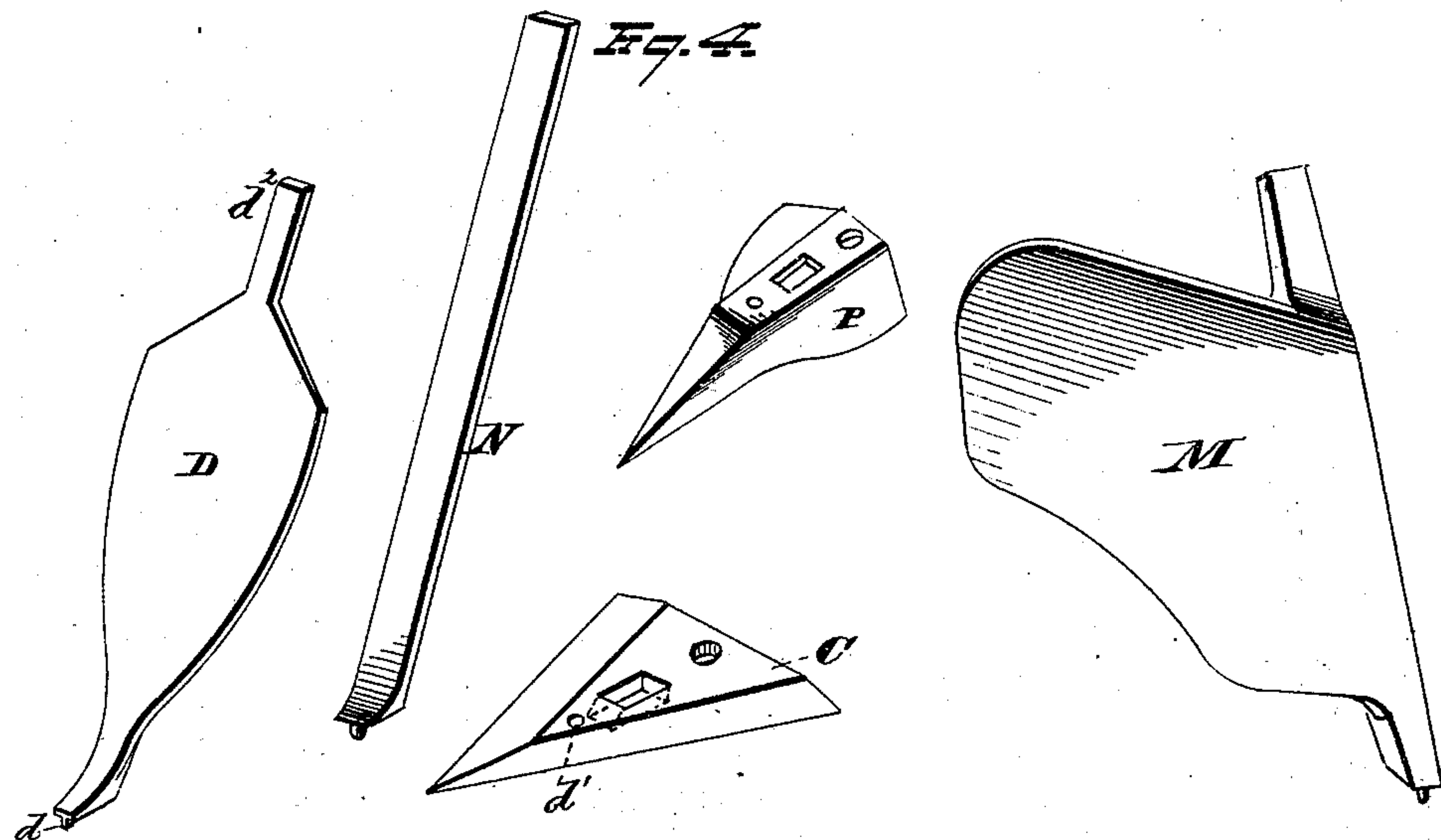
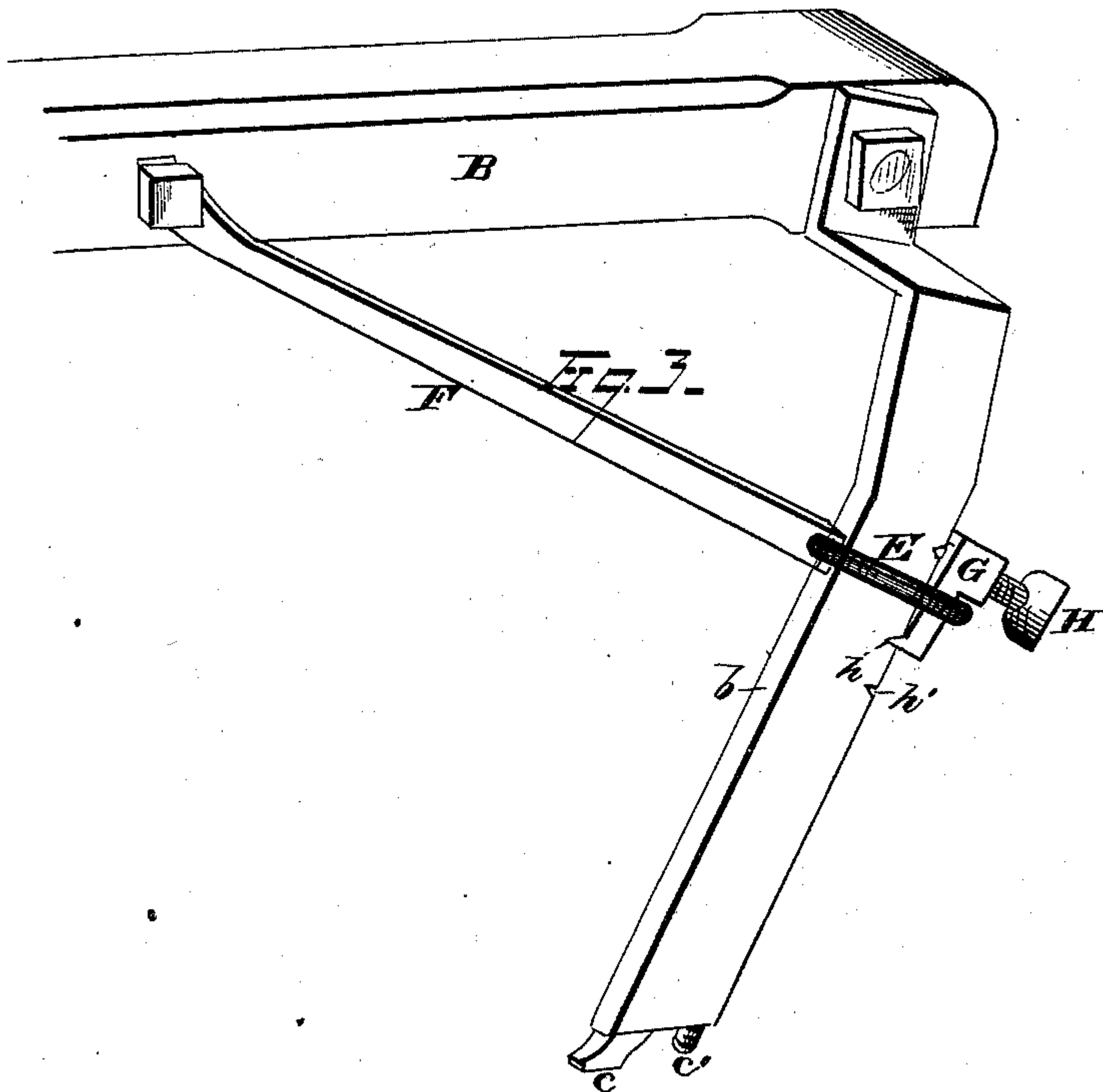
WITNESSES
Edw. J. Nottingham.
A. M. Bright.

INVENTOR
Archibald Sipe.
By Leggett & Leggett.
ATTORNEYS

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UNITED STATES PATENT OFFICE.

ARCHIBALD SIPE, OF RIVER BANK, VIRGINIA.

IMPROVEMENT IN PLOWS.

Specification forming part of Letters Patent No. **199,750**, dated January 29, 1878; application filed October 26, 1877.

To all whom it may concern:

Be it known that I, ARCHIBALD SIPE, of River Bank, in the county of Rockingham and State of Virginia, 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 pertains to make and use it, reference being had to the accompanying drawings, which form part of this specification:

My invention relates to improvements in plows, and more especially to that class of the same which admit of certain of the working parts being removed and substituted by other parts; and it consists in the construction hereinafter described and claimed.

In the drawings, Figure 1 represents a plow made according to my invention, with certain of the detachable parts secured thereto in place. Fig. 2 shows the plow when adapted to act as a single instead of a double plow, as shown in the former instance. Fig. 3 is a view showing the stock parts of the plow free from the working parts, while Fig. 4 represents the several different detachable working parts which may be used in plowing, as desired.

The standards A are pivoted to the single beam B at suitable points thereon, and are made with the right-angular shoulders *a* in the upper portions of their respective bodies, while below the said shoulders a curve is made in the line of direction of their length, which causes the standards to have an inclined seat, *b*, as the bearing for the upper working parts of the plow. The lower extremity of each standard is provided with the forward projecting catch *c* and the rear lug *c'*, the former being adapted to engage with a suitable slot in the share C, while the lug *c'* is tapped and adapted to receive a nut after being passed through the second slot in the said share.

This share is adapted to engage with the shovel D by the lug *d* fitting into the upper central hole or opening *d'* in the share, while its opposite body portion is made with the shank *d²*, which is clamped by the link E to the front side or seat *b* of the standard. The links E are loosely engaged with their respective swinging braces F, which latter are pivoted by suitable means to the beam at proper

distances in front of the attachments of the standards thereto. Wedges G, provided with upper body slots, permit the set-screws H to pass through the same, and have end bearings against the rear sides of the standards, while their lower end bodies are formed with the detent-catches *h*, which engage with the graded series of grooves *h'* on the standards.

As both the standards and their connecting-braces are all respectively pivoted to the beam, any adjustment in the angular inclination of the standards to the beam can readily be made, and the parts be swung or moved upon their pivotal connections, as desired. The link E retains the shovel by means of the wedge engaging on the rear side of the standard, together with its detent-catch and connecting set-screw. The link and brace accomplish a threefold result, in that they brace the standard, secure the shovel thereto, and regulate the vertical adjustment of the plow, so that the latter may cut a deep or shallow furrow-slice.

The share and shovel shown in Fig. 1 of the drawings only represent one use of my plow, while the latter may be used with the other and different working parts shown in the remaining figures. By removing the said share and shovel, which are readily detachable, as set forth, any of the other parts may be substituted therefor. Thus the mold-board L, with its point *l* made in single piece, may be attached alone to one of the standards, as shown in Fig. 2, which might be desirable in heavy plowing and when subsoiling. But if it is not wished to subsoil, then the mold-board M, made without a point or land-side, could be substituted in place of the shovel shown in Fig. 1, which would cut and turn the furrow-slice without causing the lower soil to be thrown up onto the surface; while, if very light work is to be done, the steel bar N can be secured to the standard, being clamped by the link E at its upper extremity, and engaging with the share at its lower extremity, the same as in the case of the shovel and other substituted parts above described. This steel bar simply acts as a detachable wearing-surface, to prevent the standard from becoming worn or affected by use when none of the working parts are secured thereto, as indicated.

The smaller share or point P is to be substituted for the share C when it is wished to work gravelly soil; and it is evident that the same may be used in connection with any of the working parts which are used with the share C, as it is adapted for engagement thereto, and also to the standard in the same manner. So too, it is apparent that any of these changes or substitutions may be made with the plow, either as a single or double plow; and also that, instead of using but one or two of these plows, any desired number of them may be stocked to a suitable frame. In instance of using but one plow, only one standard is necessary, and this is secured to the frame in a reverse manner to that which is the case when more than one plow is used. The shoulder *a* causes the standard to be, in such case, in the direct line of draft, as seen in Fig. 2.

A plow made according to my invention can, in this way, work with advantage in the cultivation of corn with the share C alone, as the share is entirely buried in the ground, loosening the soil beneath the hills, and making no furrow, as the dirt is not thrown up against the corn or turned over in a furrow-slice; while in heavy plowing, subsoiling, or turning ground, the other suitable parts may be used, as before described.

Having fully described my invention, what I

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

1. The combination, with pivoted standard A, swinging brace F and shovel D, or other substituted plow working part, as described, of link E and wedge G, the latter being held in place by detent *h*, formed in same piece therewith, and engaging with notches on the rear side of the standard, together with set-screw H, having end bearing against the latter, substantially as set forth.

2. The combination, with share C or other substituted plow working part, as described, which engages with catch *c* and lug *c'*, formed on the lower end of standard A, of shovel D, or similar plow working part, made with lug *d*, which seats in slot *d'* of said share, the upper shank of the shovel being secured to the standard by the described vertically-adjustable clamping mechanism, substantially as set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 24th day of October, 1877.

ARCHIBALD ^{his} + SIPE.
mark.

Witnesses:

A. W. BRIGHT,
F. O. McCLEARY.