

(No Model.)

J. H. FELDMANN.

SHOVEL PLOW.

No. 259,515.

Patented June 13, 1882.

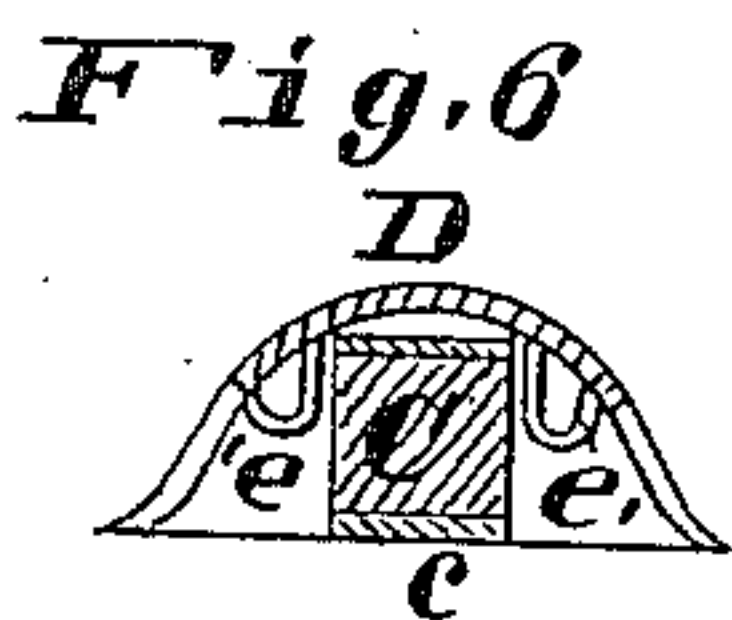
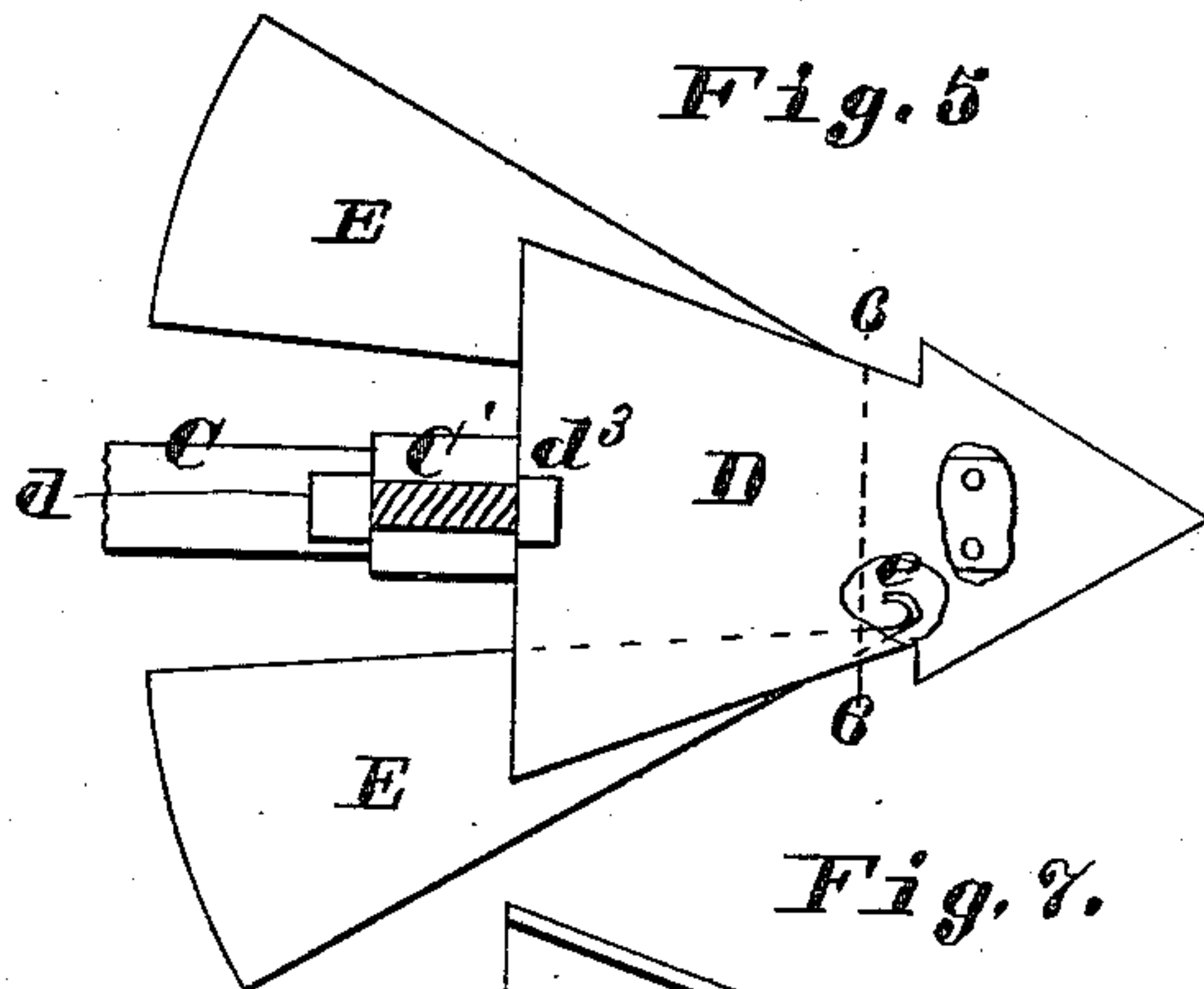
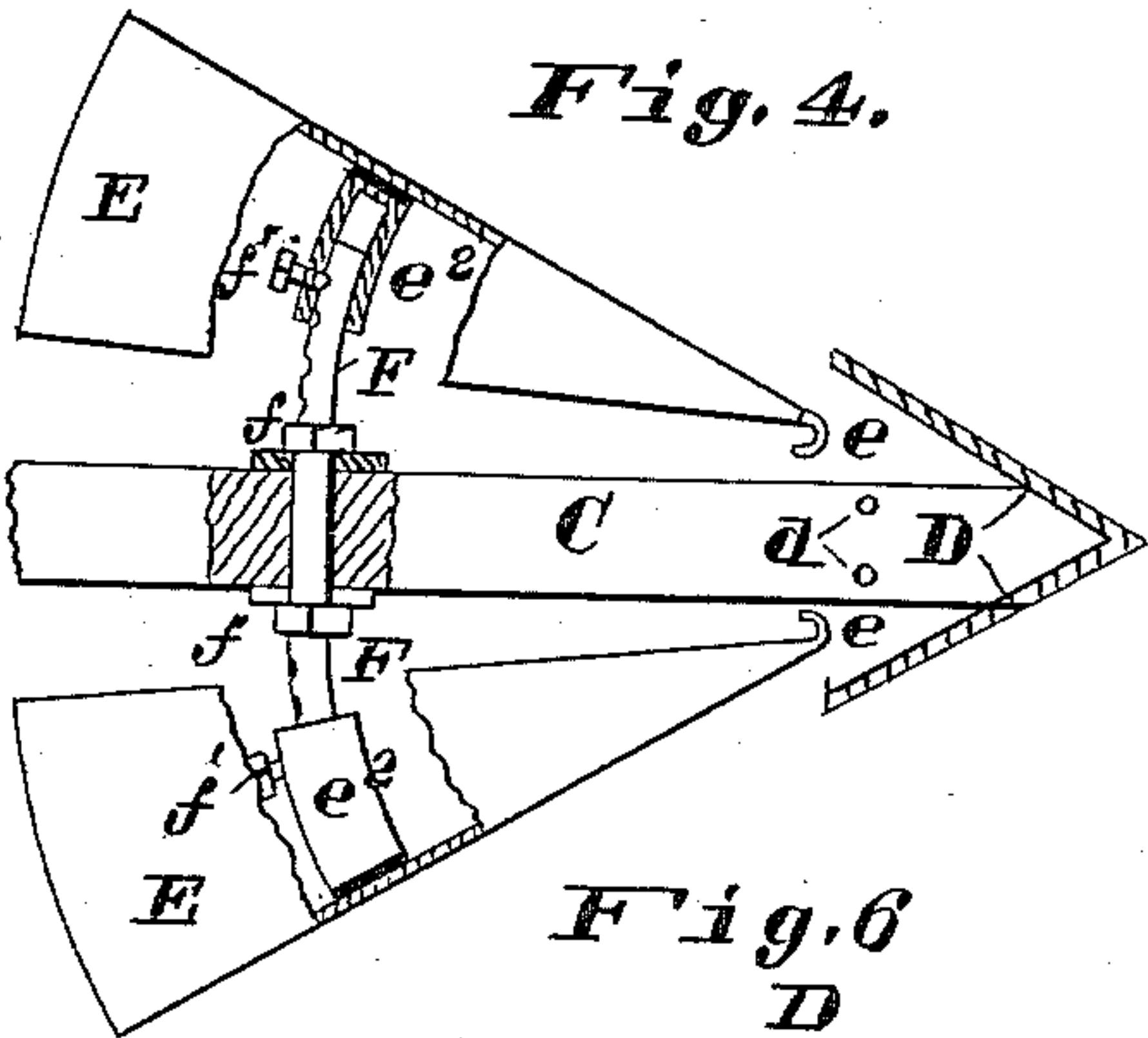
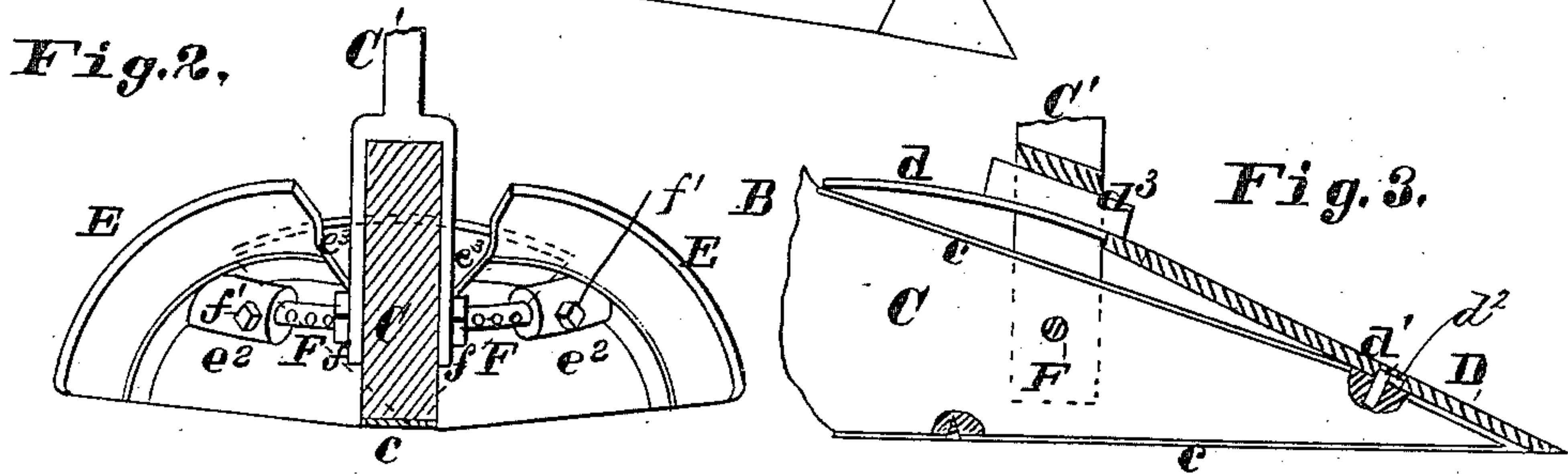
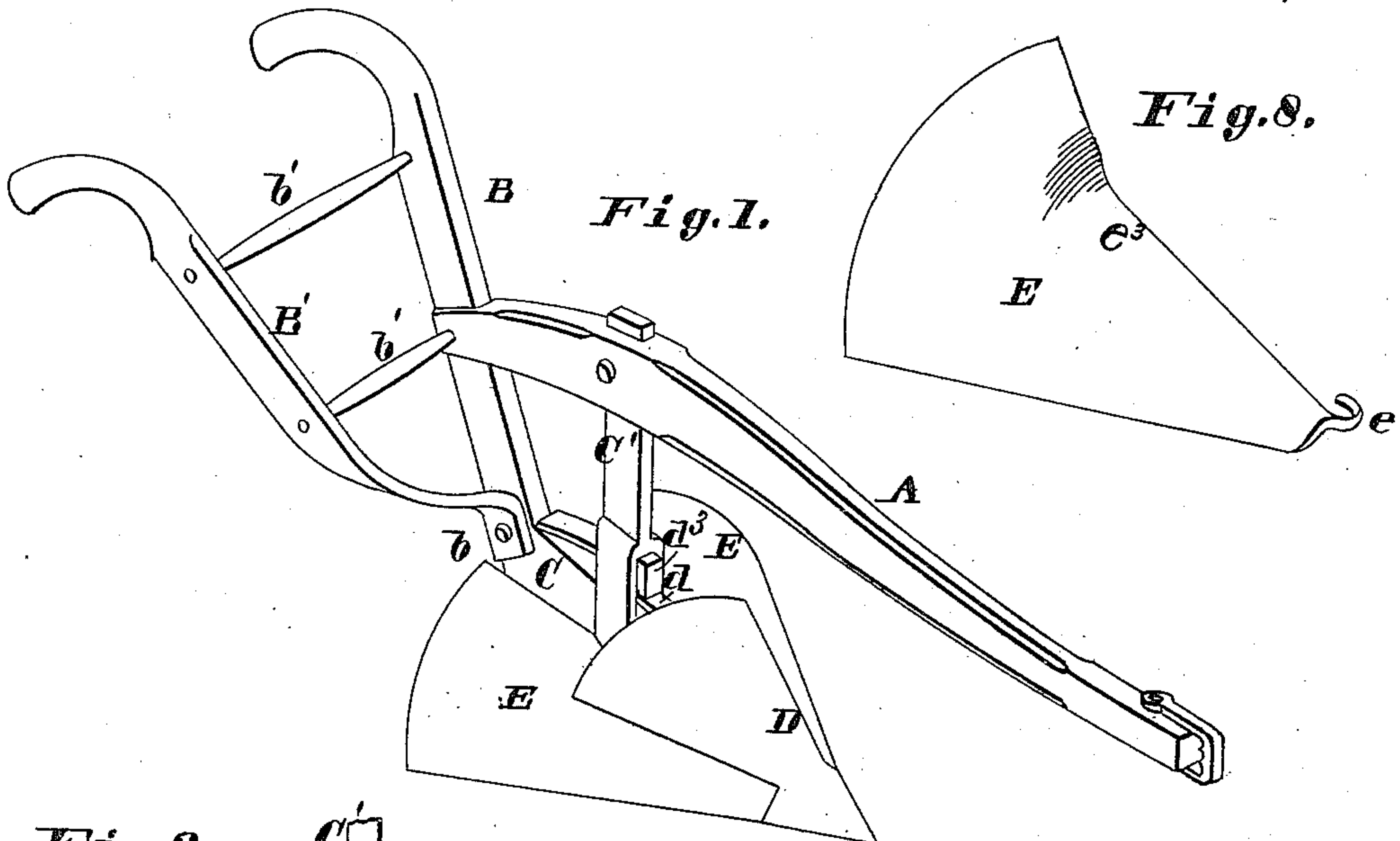
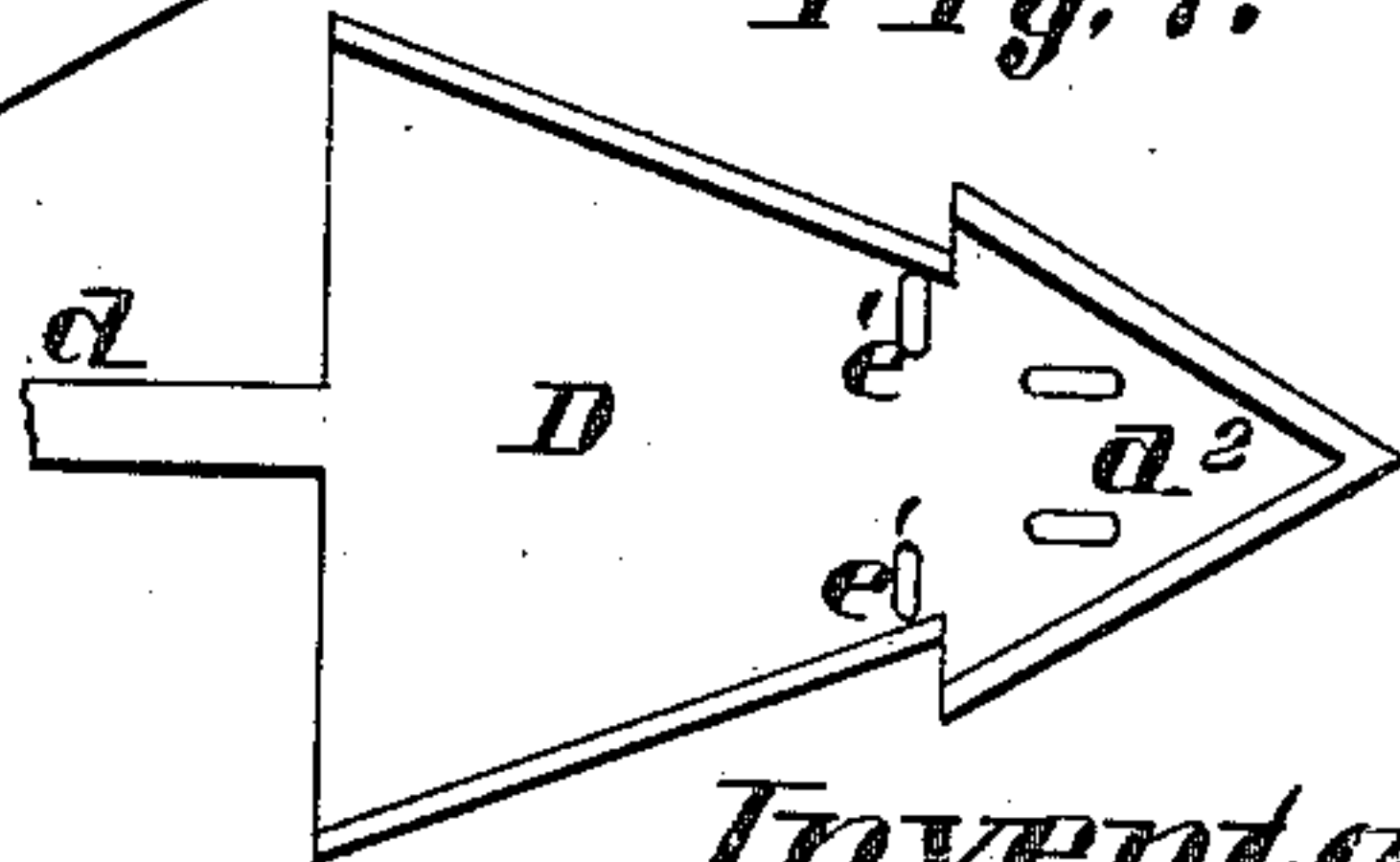


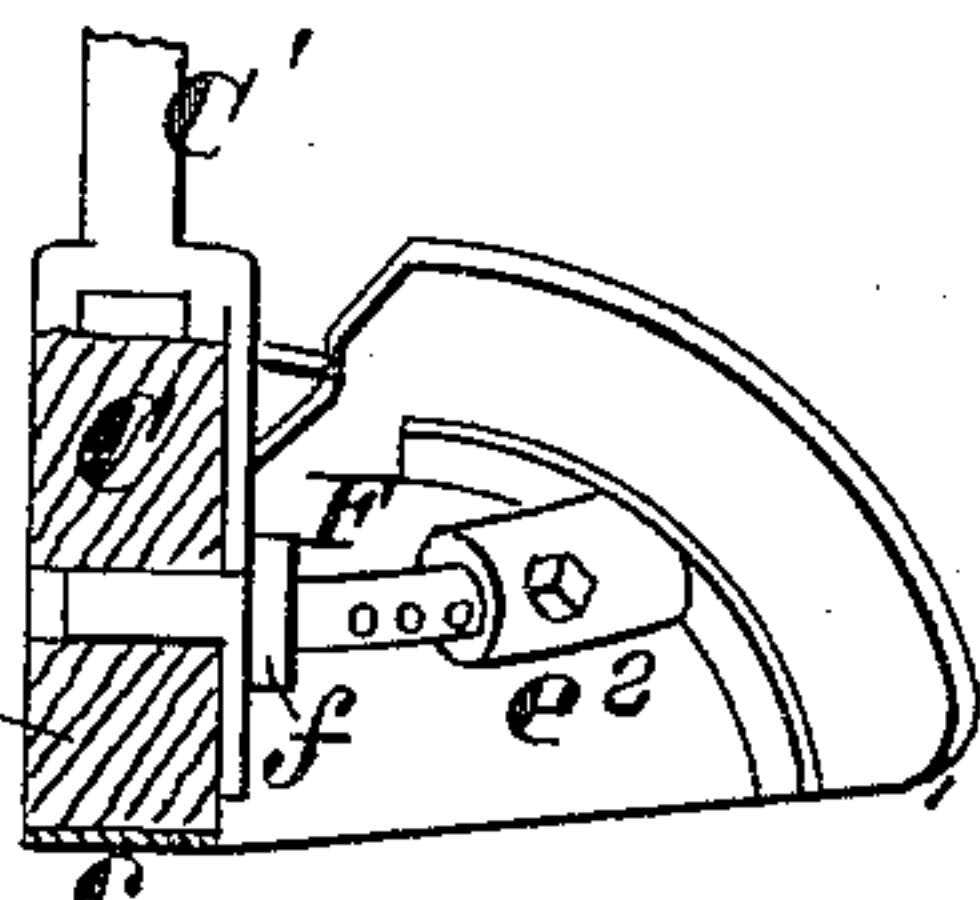
Fig. 9



Attest:

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UNITED STATES PATENT OFFICE.

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SHOVEL-PLOW.

SPECIFICATION forming part of Letters Patent No. 259,515, dated June 13, 1882.

Application filed December 7, 1881. (No model.)

To all whom it may concern:

Be it known that I, JOHN H. FELDMANN, of the city of St. Louis, in the State of Missouri, have invented a certain new and useful Improvement in Shovel-Plows, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming part of this specification.

My invention relates to a plow for use in cultivating corn, and also as a breaking-plow; and my invention consists in the points of novelty hereinafter set forth and claimed.

In the drawings, Figure 1 is a perspective view of the corn-plow. Fig. 2 is a rear view of same, partly in section. Fig. 3 is a longitudinal detail section of same. Fig. 4 is a detail bottom view of same, partly in section. Fig. 5 is a detail top view of same, partly in section. Fig. 6 is a section on line 6 6, Fig. 5. Fig. 7 is a bottom view of the share. Fig. 8 is a side elevation of one of the mold-boards. Fig. 9 is a detail rear view, showing the cultivator constructed with one mold-board.

A represents the plow-beam, and B B' the handles. The handle B is straight with and forms a part of the shoe C of the plow. The handle B' is secured to that B at *b*, and by rounds *b'*.

C' is a bifurcated standard connecting the shoe with the beam.

The shoe C is shod by a strip of metal, *c*, to take the wear from the shoe, which is made of wood. The strip *c* extends over the nose of the shoe and up to the handle B.

D is the share of the plow, having an arm, *d*, at its upper end. This is made of concavo-convex shape, and is so formed as to cover the upper edges of the mold-boards, so as to carry the dirt back well onto the mold-boards. The share is secured to the shoe by projections *d'*, extending up from the shoe, at or near its nose, (see Fig. 3,) which engage with grooves *d''*, formed on the under side of the share. From these projections to the upper end of the arm *d* the share is bow-shaped in longitudinal section. (See Fig. 3.) The arm *d* passes between the arms of the standard C', which forms the lateral stay to the upper portion of the share.

*d*³ is a wedge driven in the opening above the arm *d*. It will thus be seen that when the share is put in place and the wedge driven in the lower end of the share will be held down tight upon the nose of the shoe by reason of

the bow shape given to the upper portion of the share.

E E are the mold-boards, which have hooks *e*, formed upon or secured to their forward ends, which engage with eyes *e'* on the share. The mold-boards are formed with inturned portions *e*³, so that they can move back and forth beneath the share, as hereinafter set forth, without coming in contact with the share. The mold-boards are of convex shape on the outer surface, and have welded at or near their centers sleeves *e*², for receiving the ends of the cross-bar F, which passes through the body of the shoe C and is kept from endwise movement therein by collars *f*. (See Figs. 2 and 4.) The ends of this cross-bar which enter the sleeves are serrated or notched.

f' are transverse set-screws in the sleeves, whose inner ends bear against the serrated ends of the cross-bar. It will thus be seen that the rear ends of the mold-boards may be set to or from the shoe C, as desired, the adjustment being made to vary according to the distance apart of the rows of corn being cultivated, so that once across the field is all that is necessary for each row of corn.

In Fig. 9 I have shown my cultivator with only one mold-board. In this case the cross-bar is short and has the usual shoulder, *f*, to prevent the mold-board from moving inward, and it will be prevented from moving in the other direction by its contact with the earth.

Having thus described my invention, the following is what I claim as new therein and desire to secure by Letters Patent:

1. The combination of the mold-boards E E, each formed with a sleeve, *e*², having set-screw *f'*, the share D, and shoe C, having rigid cross-bar F, whose ends enter the sleeves *e*², the said mold-boards being hinged to the said share, as and for the purpose set forth.

2. The combination of shoe C, having projections *d'* *d'*, the bow-shaped share D, having arm *d*, bifurcated standard C', and the wedge *d*³, as set forth.

3. The combination of the adjustable mold-boards E E, each formed with a hook, *e*, the share D, having eyes *e'* *e'*, the shoe C, and cross-bar F, as set forth.

JOHN H. FELDMANN.

Witnesses:

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GEO. H. KNIGHT.