

(No Model.)

C. S. JENKINS.

PLOW.

No. 355,534.

Patented Jan. 4, 1887.

FIG. 1

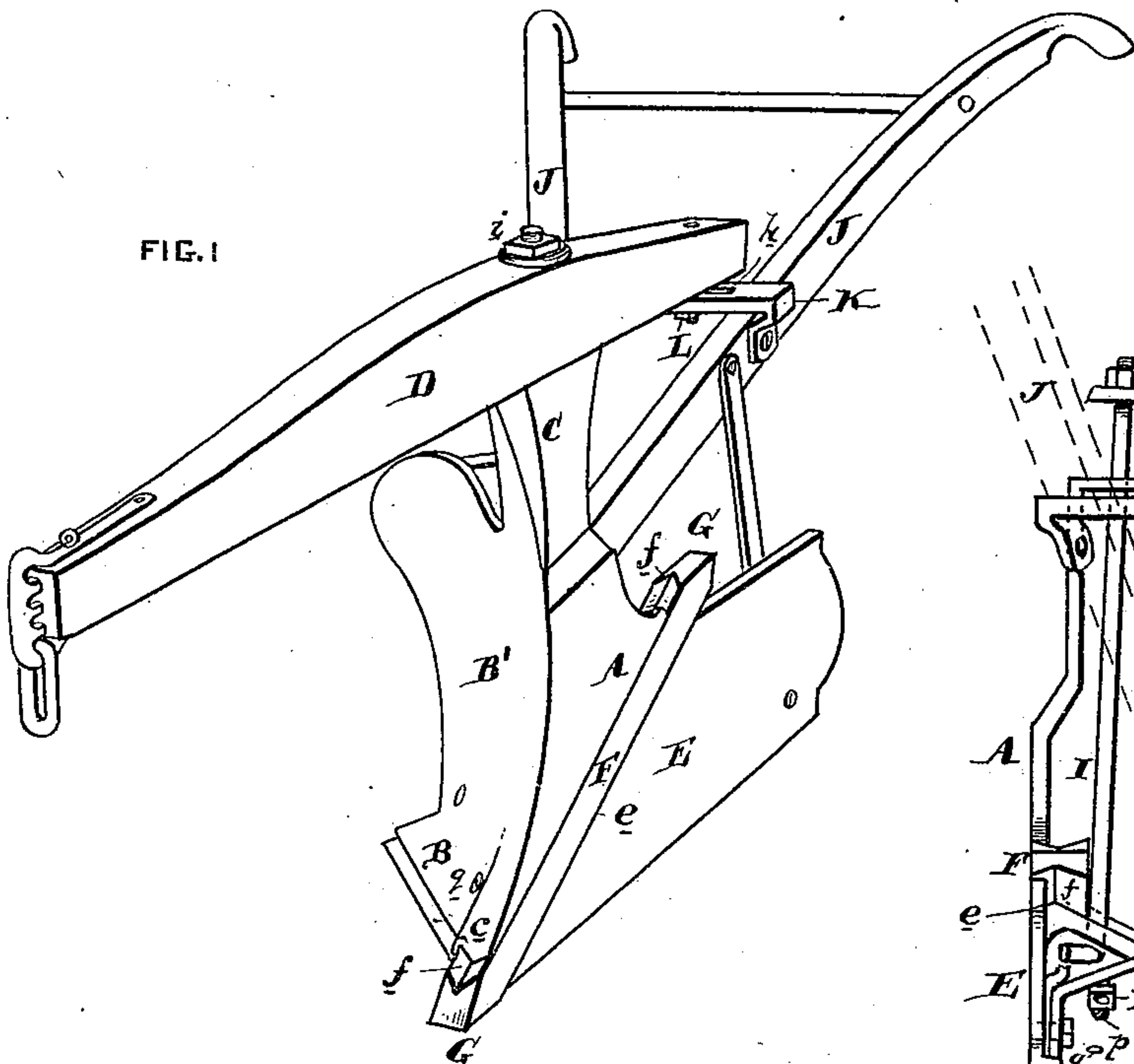


FIG. 2

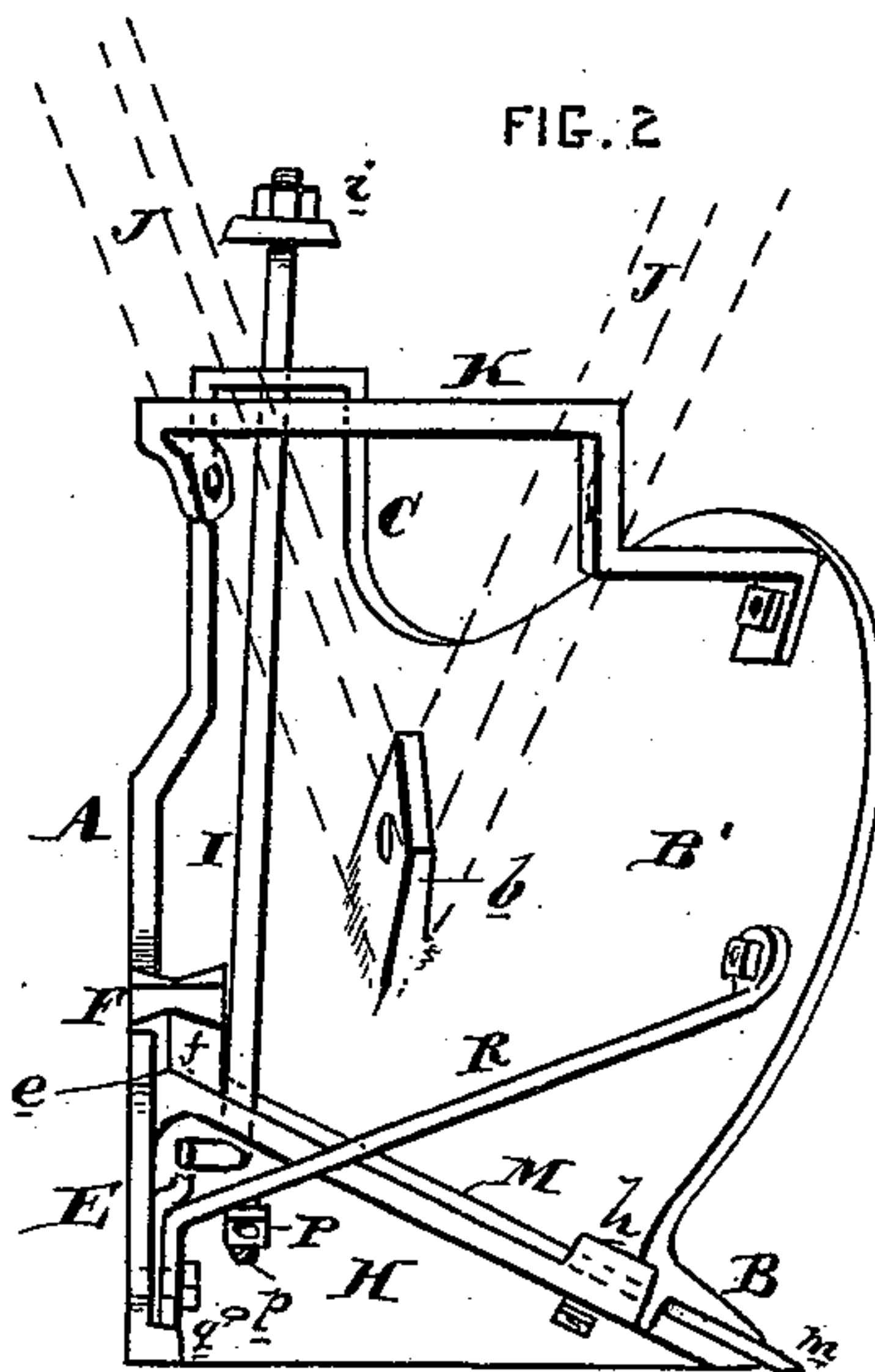


FIG. 3

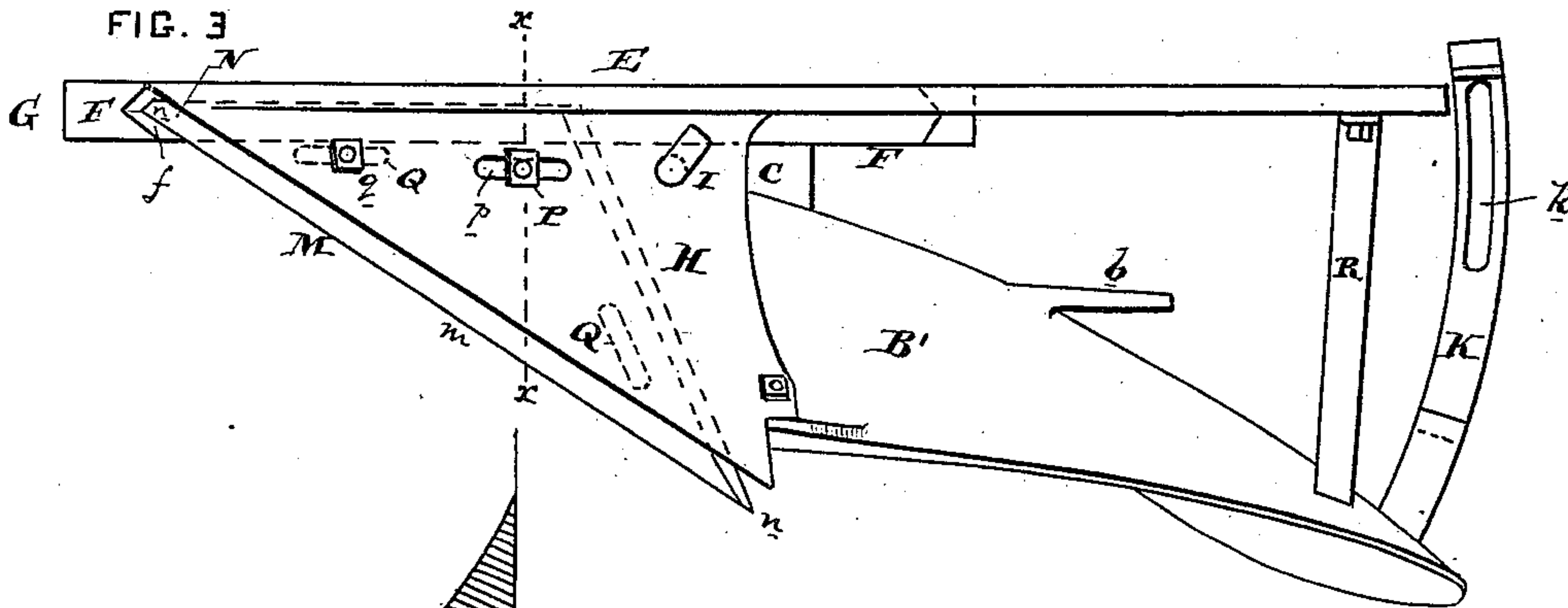


FIG. 4

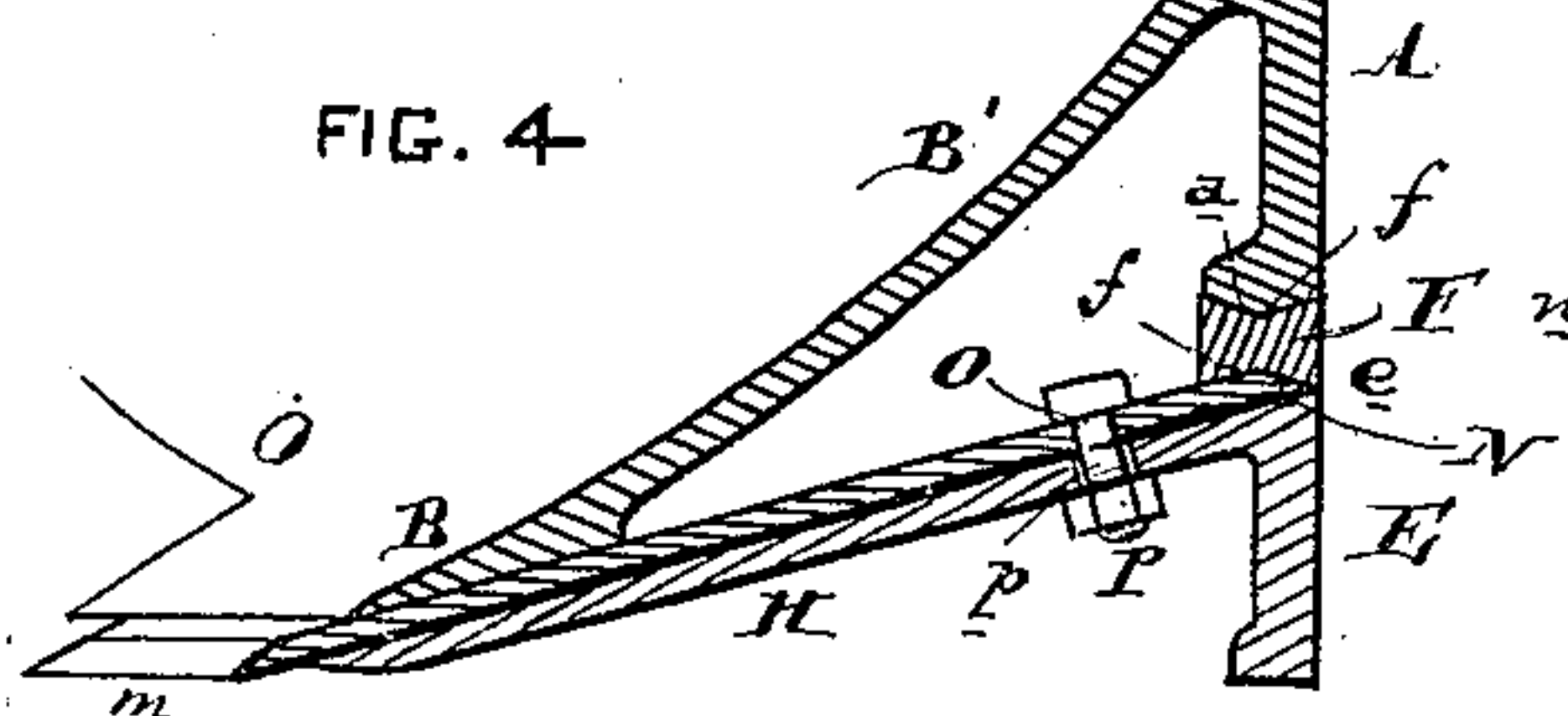
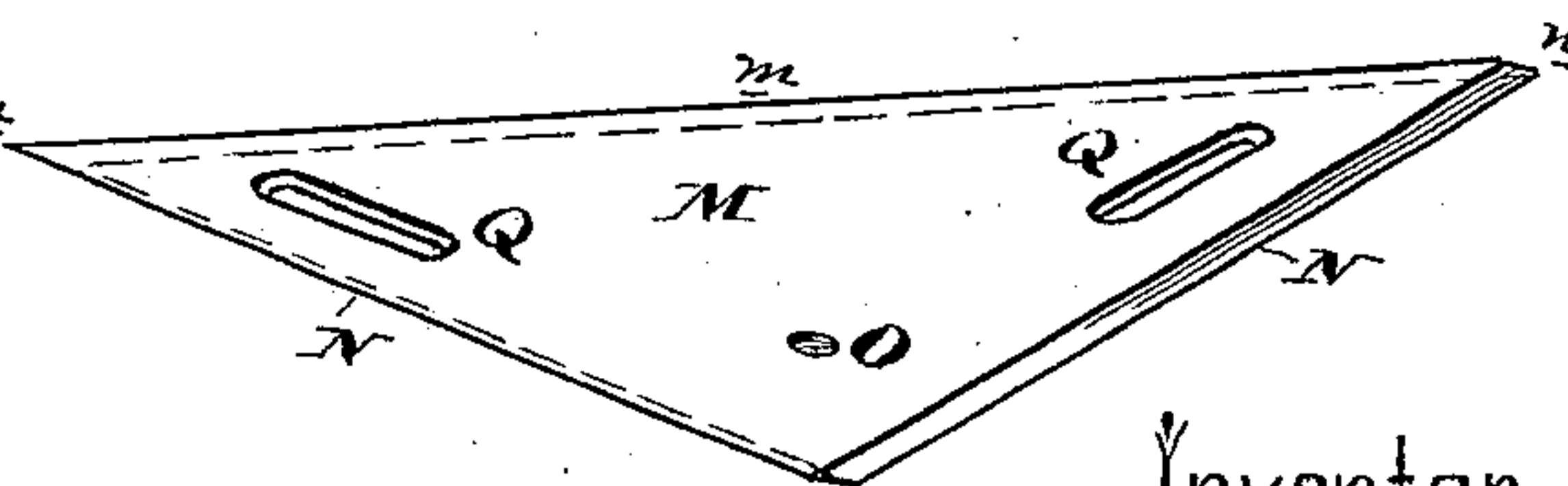


FIG. 5



Attest  
E. W. Breckinreed  
Notary Public

Inventor  
Charles S. Jenkins  
By *[Signature]*



# UNITED STATES PATENT OFFICE.

CHARLES S. JENKINS, OF LANSDALE, PENNSYLVANIA.

## PLOW.

SPECIFICATION forming part of Letters Patent No. 355,534, dated January 4, 1887.

Application filed February 25, 1886. Serial No. 193,181. (No model.)

*To all whom it may concern:*

Be it known that I, CHARLES S. JENKINS, of Lansdale, county of Montgomery, and State of Pennsylvania, have invented an Improvement in Plows, of which the following is a specification.

My invention has reference to plows; and it consists in certain improvements, all of which is fully set forth in the following specification, and shown in the accompanying drawings, which form part thereof.

The object of my invention is to form a plow of thin cast-steel, and in which the cutting-edge of the share is made adjustable and removable to compensate for wear.

My object is also to provide the plow with a nose-bar of steel, which may be adjusted to compensate for wear. By this construction I provide a plow in which the parts most subject to wear are capable of adjustment to compensate for said wear, and which parts may be sharpened, if desired.

My improvement also enables me to simplify and lighten the construction of the plow and reduce its weight without impairing its strength.

The particular feature of construction in my improved plow lies in the fact that the adjustable nose is clamped between the upper and lower part of the landside of the plow, and is held by friction produced by the tightening-bolt, which holds these parts together and binds them to the beam, but does not pass through the adjustable nose. The nose is retained in position against lateral displacement by being grooved upon its top and bottom, into which grooves the other and rigid portions of the plow project. The share rests at the same angle as one of the faces of the nose-grooves, and fits up into the under groove of the nose, whereby when the parts are clamped together by the aforementioned bolt the share is clamped in place by the nose and lower part of the landside of the plow.

A further important feature lies in the fact that by providing the nose with these grooves, and causing the front of the mold-board and bottom of the plow-castings to fit down into these grooves, weeds, roots, and stringy obstructions cannot work their way into the joint between these parts. Aside from the foregoing, a decided advantage is gained by

making the plowshare adjustable to and from the nose, when combined with a separately-adjustable nose, as each may then be adjusted to induce the most perfect working of the plow in the field.

In the drawings, Figure 1 is a perspective view of a plow embodying my improvement. Fig. 2 is a rear view of same with the wooden portions removed. Fig. 3 is an inverted plan view of Fig. 2. Fig. 4 is a cross-section of Fig. 3 on line *x x*, and Fig. 5 is a perspective view of the share-blade removed.

A is the landside of the plow. B is the usual share, and C is the standard by which the mold-board B' is connected to the beam D.

J are the handles, and are connected to a projection, *b*, on the back of the mold-board B', and are also supported by an iron, K, connecting said handles and the upper and rear part of the mold-board. The rear end of the beam D is bolted to the iron K by a bolt, L, which passes through the slot *k*, whereby the angle of the beam may be suitably varied to facilitate the draft.

E is a casting forming the lower part of the landside of the plow, and located between the upper portion and said part E, and in the oblique space, *e*, thereby formed is the adjustable nose-bar F, which is made with an upper and lower groove, *f*, and is sharpened, as at G, to form a cutting edge or nose for the plow. The V-shaped groove *f* of the nose-bar prevents its wearing pointed, as the increase of metal on the lateral sides compensates for the natural increase of wear thereon, and the tendency of the nose is to retain its knife-edge. This nose-bar extends obliquely upward and backward to the rear of the plow, and is clamped between the V-shaped edge *a* of the landside-plate and the lower plate, E, or by the said plate E and the share-blade M, by means of the bolt I, which draws the plate E upward against the plow-body proper, the said bolt I being extended through the beam D and provided with a clamping-nut, *i*. By this means it is seen that the single bolt I will not only clamp the beam of the plow, but also clamps the adjustable nose-bar and the share-blade in positions in which they are placed upon the plow.

H is a guard-plate, preferably formed integral with plate E, and extending down under the share B, and being bolted thereto at *h*, leav-



ing an aperture between it and the share for the insertion of the share-blade M. The clamping action of the bolt I tends to hold the plate H up to the share, and also insure its clamping the blade M in position. This share-blade M is formed triangular, with the cutting-edge *m* and hole O, and two slots, Q, arranged parallel to the beveled edges N, which fit into the groove *f* of the nose-bar, as shown in Fig. 4.

10 The bevels on these edges N are reversed, so that if either point *n* of the blade be brought to the nose of the plow the bevel will suit the grooves of the nose-bar. This blade is placed between the share B and the plate H, and is

15 clamped in position by a bolt, P, passing through the hole O and made adjustable in a slot, *b*, in the casting H. A bolt, *q*, also passes through the share and plate H, and through the slot Q next to the nose of the plow. A

20 proper adjustment of the share-blade may be made, and it may then be locked in position by the combined action of the bolts *q*, P, and I. As the cutting-edge M of the share-blade gets worn unevenly, the blade may be turned up-

25 side down and end for end, so as to bring the other point *n* next to the nose.

R are brace-irons.

I do not limit myself to any particular shape of the share-blade and nose-bar, as they may be

30 modified or changed to suit the desires of the manufacturer or shape of the plow.

Having now described my invention, what I claim as new, and desire to secure by Letters Patent, is—

35 1. The combination of the body portion of the plow, having the upper landside portion, with the landside lower part, E, the adjustable oblique nose-bar F, located between the two and clamped thereby, and the clamping-

40 bolt I, for clamping the body and part E together upon the nose-bar, substantially as and for the purpose specified.

2. The combination of the body portion of the plow, having guide *a*, with the landside

45 lower part, E, the adjustable oblique nose-bar F, having groove *f* on its upper face and located between the two and clamped thereby, and the clamping-bolt I, for clamping the body and part E together, substantially as and for

50 the purpose specified.

3. The plow-body and mold-board, in combination with lower part, E, having floor-plate H, adjustable share-blade M, made triangular and located above said floor-plate H, and bolts

55 to clamp said share-blade in position, substantially as and for the purpose specified.

4. The plow-body and mold-board, in combination with lower part, E, having floor-plate H, adjustable share M, made triangular and

60 located above said floor-plate, bolts to clamp said share-blade in position, nose-bar F, arranged between the body and part E of the plow-beam D, and bolt I, substantially as and for the purpose specified.

5. The removable nose-bar for a plow, consisting of a long bar of uniform section, having longitudinal grooves *f f* upon its upper and lower surface, whereby it wears uniformly, substantially as and for the purpose specified.

6. In a plow, the combination of the adjustable nose-bar having its top and bottom grooved, as at *f*, with the plow-body having its forward part, from under which the nose projects, made to fit down into said groove on the nose-bar, to bring its extreme point or forward edge below the level of the sides of the nose-bar, and an adjustable share-blade having its point or forward end located within the under groove of the nose-bar, whereby roots, &c., are guided away from the joint and do not

80 clog the plow, substantially as and for the purpose specified.

7. In a plow, the combination of the body part A, including the upper part of the landside and mold-board, with lower part of the

85 landside E, the adjustable nose-bar F, having longitudinal grooves *f f* on top and bottom, share-blade M, having its inner edge beveled, as at N, to fit up into the under groove of the nose-bar and rest upon the landside part E,

90 and clamping-bolts, substantially as and for the purpose specified.

8. In a plow, the combination of the body part A, including the upper part of the landside and mold-board, with lower part of the

95 landside E, the adjustable nose-bar F, having longitudinal grooves *f f* on top and bottom, the removable and reversible share-blade M, having its inner and rear edges beveled, as at N, to fit up into the under groove of the nose-

100 bar and rest upon the landside part E, and clamping-bolts, substantially as and for the purpose specified.

9. In a plow, the upper and lower landside parts, the former of which carries the mold-

105 board and the latter a share-blade floor, and a clamping-bolt, in combination with a share-blade arranged between the mold-board and floor and secured upon the latter, and having its inner end clamped between the upper and

110 lower parts of the landside, substantially as and for the purpose specified.

10. In a plow, the upper and lower landside parts, the former of which carries the mold-board and the latter a share-blade floor, and a

115 clamping-bolt, in combination with a share-blade arranged between the mold-board and floor and secured upon the latter, and an adjustable nose-bar clamped between the upper and lower parts of the landside, substantially

120 as and for the purpose specified.

In testimony of which invention I hereunto set my hand.

CHARLES S. JENKINS.

Witnesses:

HORACE E. JENKINS,  
O. M. EVANS.