

No. 698,303.

Patented Apr. 22, 1902.

J. MICHALKA.
SHOVEL PLOW.

(Application filed Nov. 2, 1901.)

(No Model.)

Fig. 1.

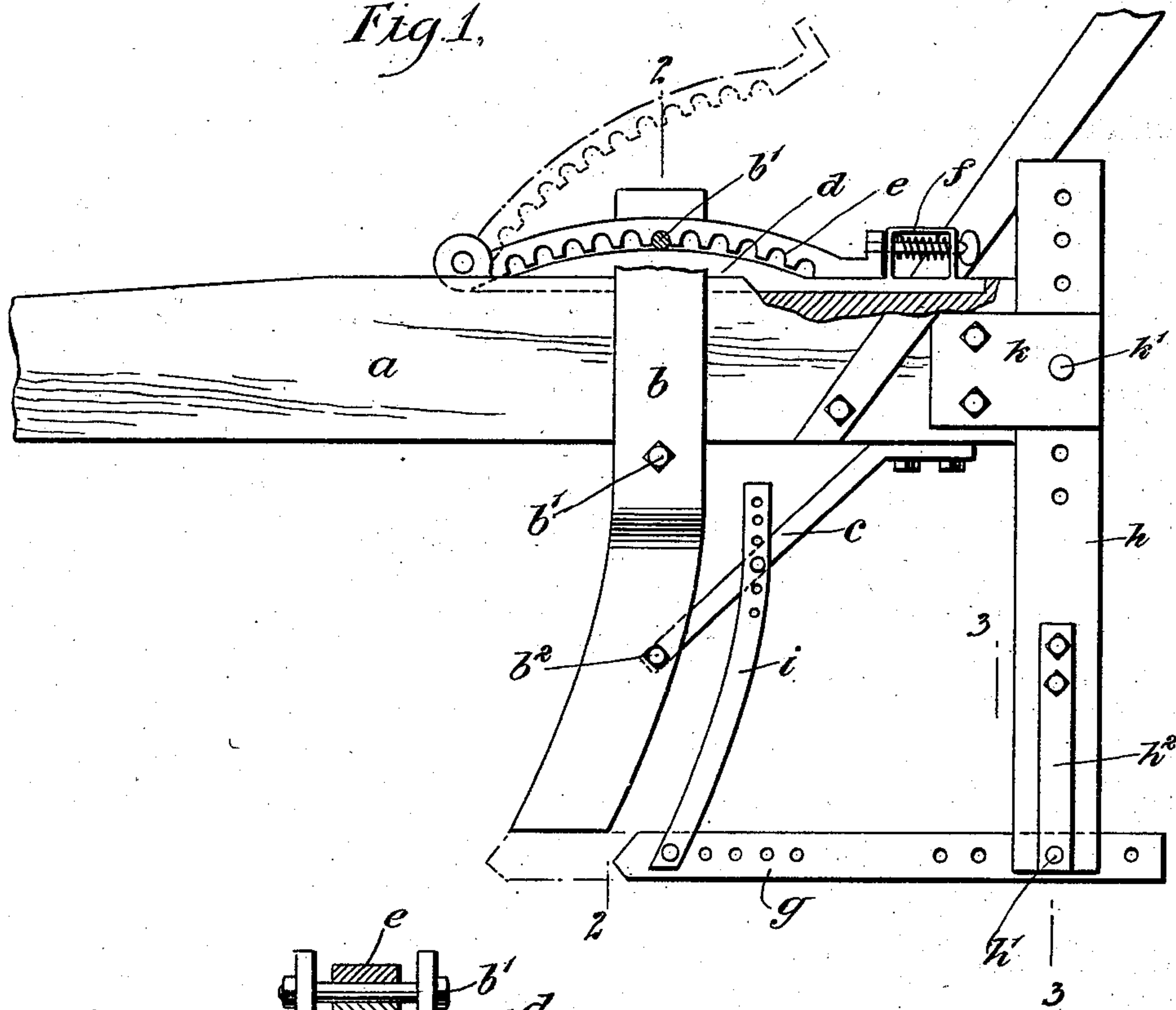


Fig. 2.

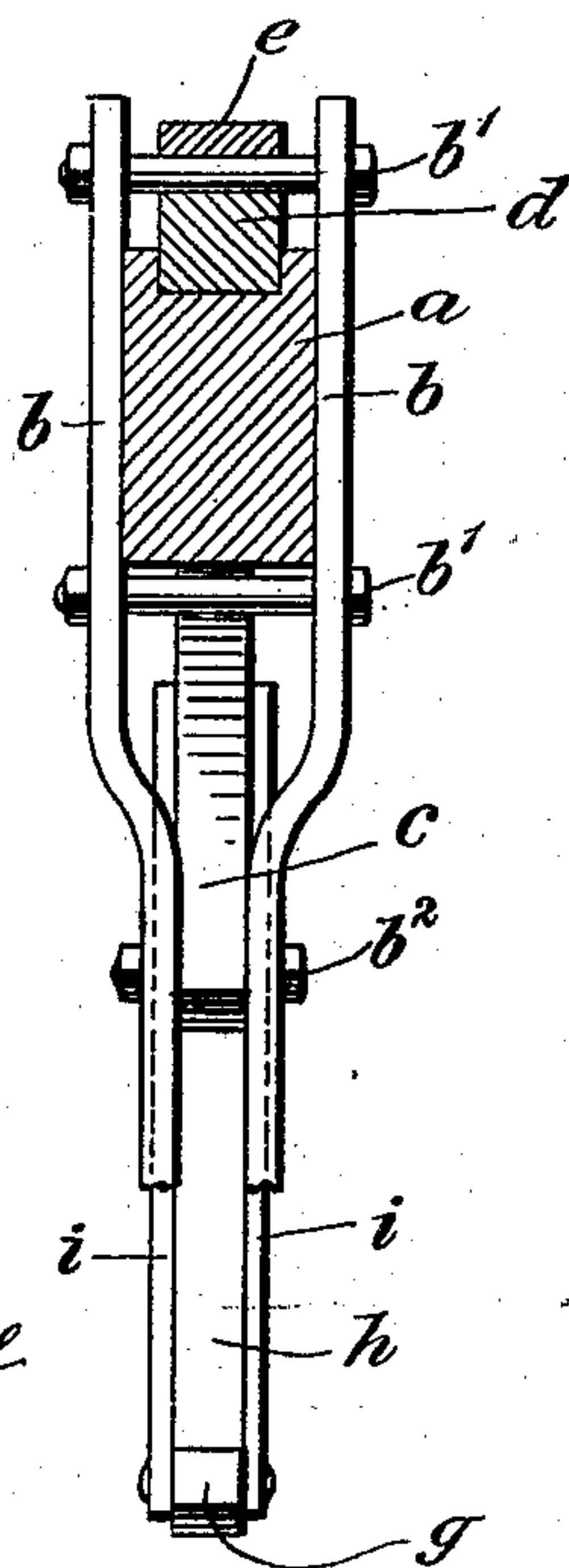
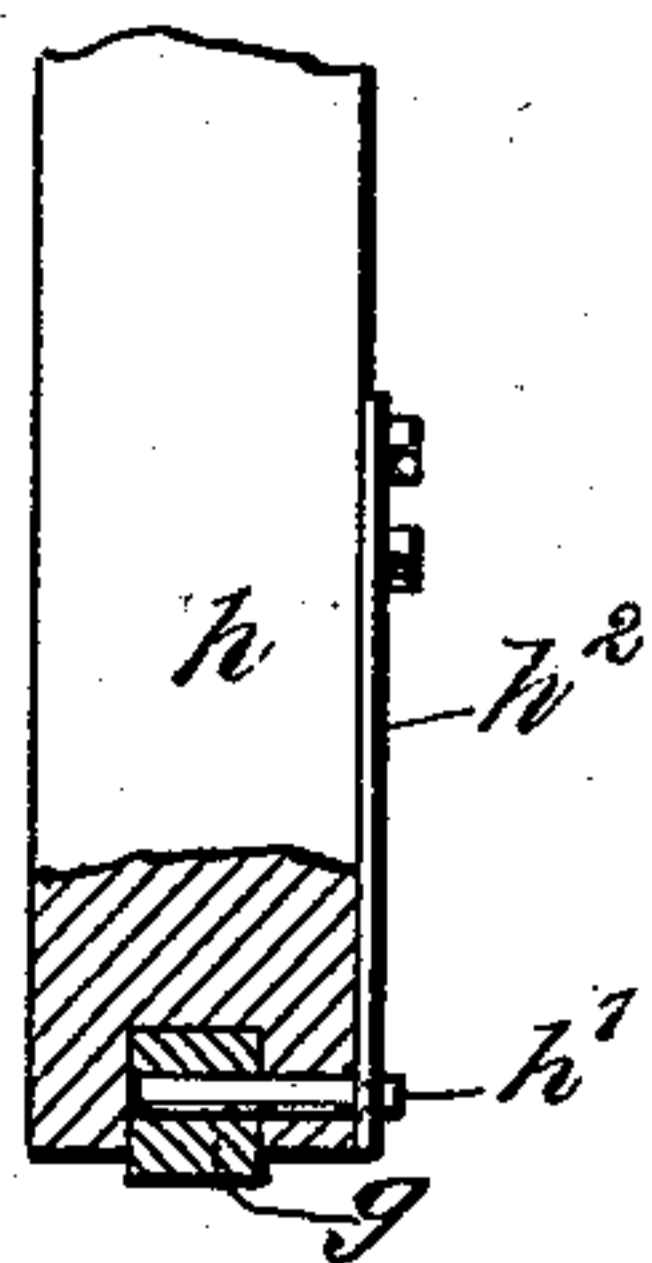


Fig. 3.



WITNESSES:

Edward Thorpe
J. B. Owens.

INVENTOR

Joseph Michalka

BY

Munn
ATTORNEYS

UNITED STATES PATENT OFFICE.

JOSEPH MICHALKA, OF CAMERON, TEXAS.

SHOVEL-PLOW.

SPECIFICATION forming part of Letters Patent No. 698,303, dated April 22, 1902.

Application filed November 2, 1901. Serial No. 80,900. (No model.)

To all whom it may concern:

Be it known that I, JOSEPH MICHALKA, a citizen of the United States, and a resident of Cameron, in the county of Milam and State of Texas, have invented new and useful Improvements in Shovel-Plows, of which the following is a full, clear, and exact description.

This invention relates to certain improvements in shovel-plows by means of which the stock and shoe may be securely mounted and yet adjusted from one position to another, according to the work to be performed.

This specification is a specific description of one form of the invention, while the claims are definitions of the actual scope thereof.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the views.

Figure 1 is a side view of the invention. Fig. 2 is a section on the line 2 2 of Fig. 1, and Fig. 3 is a section on the line 3 3 of Fig. 1.

a indicates the beam of the plow. The stock is preferably made up of two flat side pieces *b*, fastened rigidly together by stay-bolts *b'* and lying one on each side of the beam *a*, with the stay-bolts respectively above and below it.

c indicates a forwardly and downwardly projecting brace fastened to the under side of the beam and extending between the side plates *b* of the stock. This brace carries the pivot-pin *b²*, whereby the stock is mounted to swing in a vertical plane to adjust the inclination of the shovel, which is carried on the lower end of the stock. Let into the top of the beam *a* and running longitudinally thereof is a bed-bar *d*, the top face of which is arc-shaped concentrically to the pin *b²*, and over the face of the bar plays the upper bolt *b'* of the stock. Pivoted to the front end of the bar *d* is a lock-bar *e*, which is curved to lie snugly on top of the bar *d* and is formed with a notched under face adapted to engage and hold the upper bolt *b'*. Carried on the rear end of the bed-bar *d* is a spring or other catch *f* for releasably holding the free end of the lock-bar in the position shown by full lines in Fig. 1.

When the lock-bar *e* is thrown down in the position shown by full lines in Fig. 1, it is held by the catch *f*, and in this position the lock-

bar holds rigidly the stock. This latter element may, however, be freely adjusted by throwing up the lock-bar *e*. (See dotted lines 55 in Fig. 1.)

g indicates the shoe, which is in the form of a bar extending longitudinally under the beam *a* and held at the rear by a leg *h* and at the front by a link *i*. The leg *h* is adjustably held to the rear end of the beam *a* by means of a U-shaped plate *k*, in which the leg fits and is held in place to be raised or lowered at will by a pin *k'*. The bottom of the leg *h* is notched to receive the foot-bar *g*, and this bar 65 is held horizontally adjustable by a pin *h'*, carried on a spring *h²*, fastened to the leg. The link *i* is formed double (see Fig. 2) and is pivoted to the front end of the bar *g* and to the brace *c*, both connections being adjustable, so as to allow for the adjustment of the shoe-bar, as will be seen by reference to the drawings. The shoe *g* held in this manner is secure and not liable to accidental displacement; but when it becomes necessary or advisable to adjust the shoe this may readily be done by the various connections shown, placing the bar at any elevation or inclination desired.

Various changes in the form, proportions, 80 and minor details of my invention may be resorted to without departing from the spirit and scope of my invention. Hence I consider myself entitled to all such variations as may lie within the scope of my claims. 85

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

1. In a plow, the combination with an intermediately-pivoted stock, of a lock-bar pivoted at one end and adapted to engage intermediate of its ends a part of the stock to lock the stock in position, and means for locking the free end of said lock-bar, as set forth. 90

2. In a plow, the combination with an intermediately-pivoted stock, of a bed-bar over which a part of the stock moves, a lock-bar pivoted at one end to the bed-bar and having a locking engagement with the part of the stock which moves over the bed-bar, and means for securing the free end of the lock-bar in position, as set forth. 95

3. In a plow, the combination of an intermediately-pivoted stock, and means for ad-

justably holding the upper end thereof, said means comprising an arc-shaped bed-bar over which a part of the stock moves, a lock-bar pivoted at one end and releasably engaged 5 with said part of the stock, to hold it, and a latch for holding the lock-bar in active position.

4. In a plow, the combination with the beam, of a stock in two parts lying one on each side 10 of the beam and fastened rigidly together, a member carried rigidly on the under side of the beam to which member the stock is pivoted, and a pivoted locking-bar for engaging a connecting member of the stock to adjust- 15 ably hold the same.

5. In a plow, the combination of a shoe-bar lying under the plow-beam, and a means at each end of the shoe for supporting it from the beam and adjusting it vertically, said means 20 being adjustably secured to the shoe to permit the shoe to be adjusted horizontally.

6. In a plow, the combination of a shoe-bar lying horizontally under the beam, means for adjusting the front end of the shoe vertically 25 and horizontally, a leg at the rear part of the shoe to which the shoe is connected to be adjustable horizontally, and a means on the beam for holding the leg and allowing it vertical adjustment.

30 7. In a plow, the combination with the beam, of a brace attached thereto and projecting downward and forward therefrom, a stock pivotally attached to the brace and project-

ing up to the beam, a means on the beam for adjustably holding the stock, a shoe, a link 35 adjustably connected to the front end of the shoe and to the brace, and a leg connecting the rear end of the shoe with the beam.

8. In a plow, the combination with a beam, and an intermediately-pivoted stock carried 40 by the beam, said stock being provided at its upper end above the beam with a cross-pin, of a pivoted locking-bar having a notched under face to engage the cross-pins of the stock, and means for locking the said bar in position. 45

9. In a plow, the combination with a beam provided with a downwardly and forwardly projecting brace, of a stock pivoted to the brace, said stock being formed of two parts 50 connected together by bolts one on each side of the beam, a bed-bar secured upon the upper face of the beam and having a curved upper face, a locking-bar pivoted to the bed-bar and having a plurality of notches in its under face for engaging one of the connect- 55 ing-bolts of the stock, and a catch for engaging the free end of the locking-bar to lock it in position.

In testimony whereof I have signed my name to this specification in the presence of 60 two subscribing witnesses.

JOSEPH MICHALKA.

Witnesses:

JOSEPH JISTEL,
ANTON LESOVSKY.